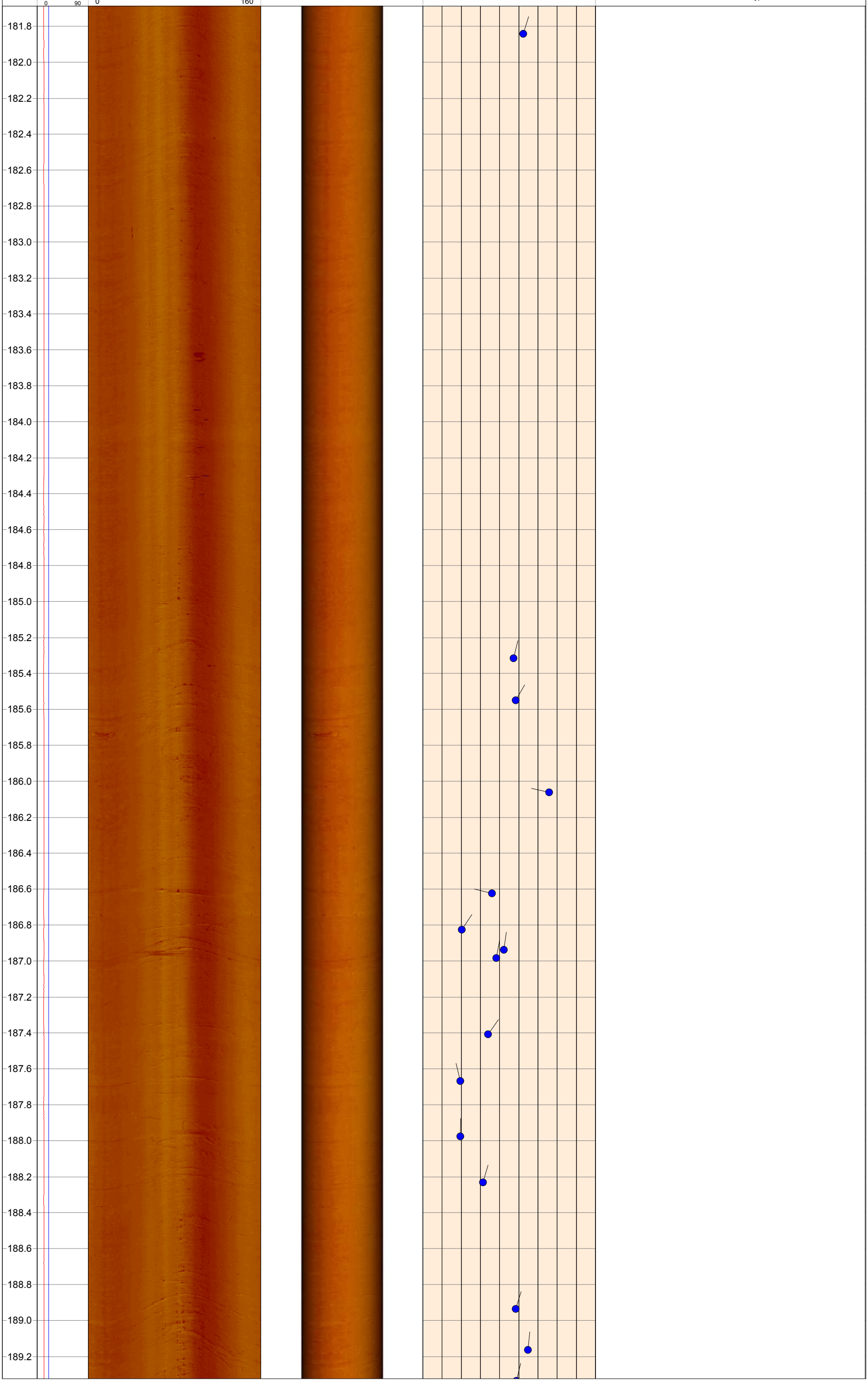
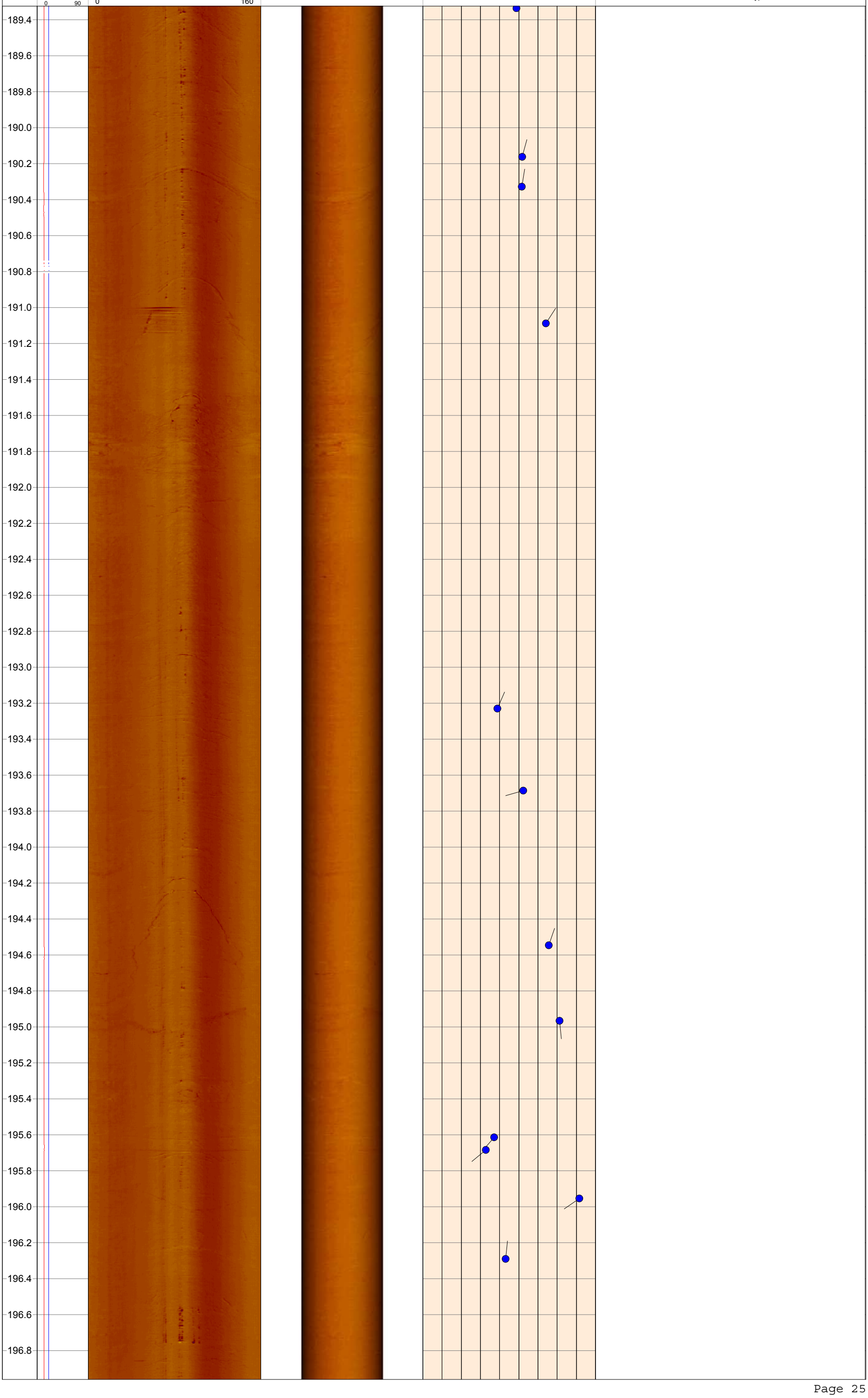
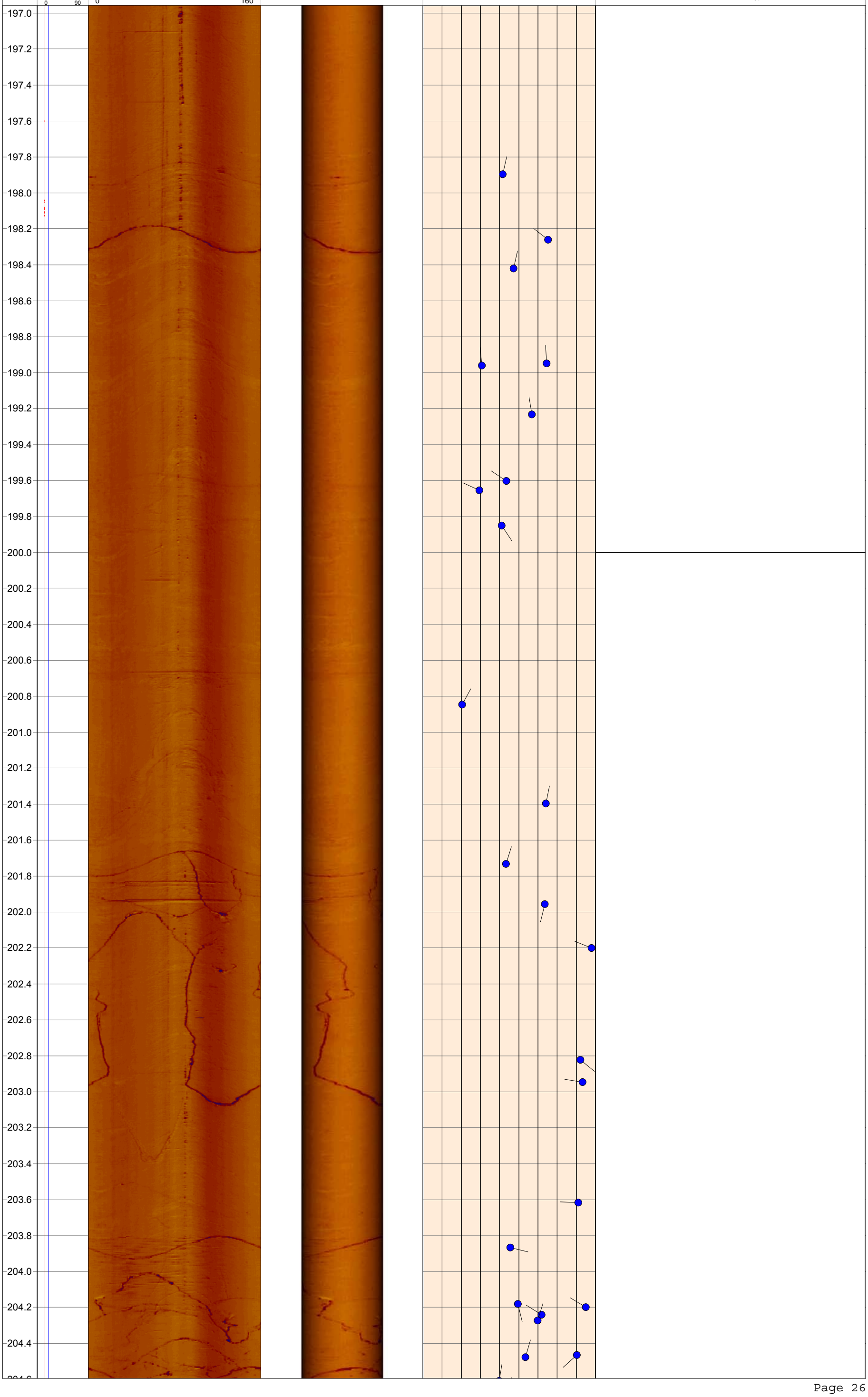
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



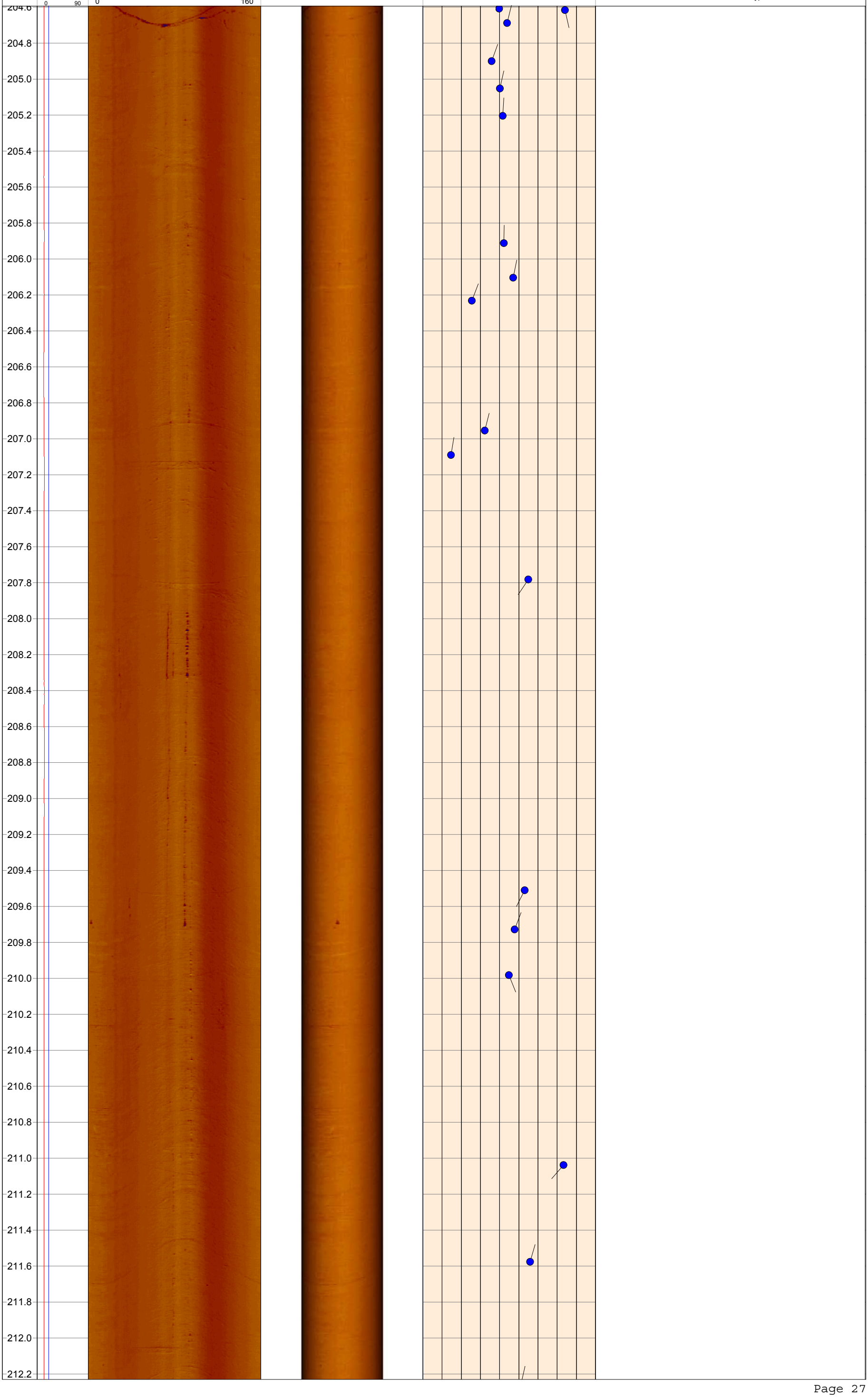
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360 / Tilt 0 90	0° 90° 180° 270° 0° / 0 160	-0°	0 90	Wulff Plot - LH - Type



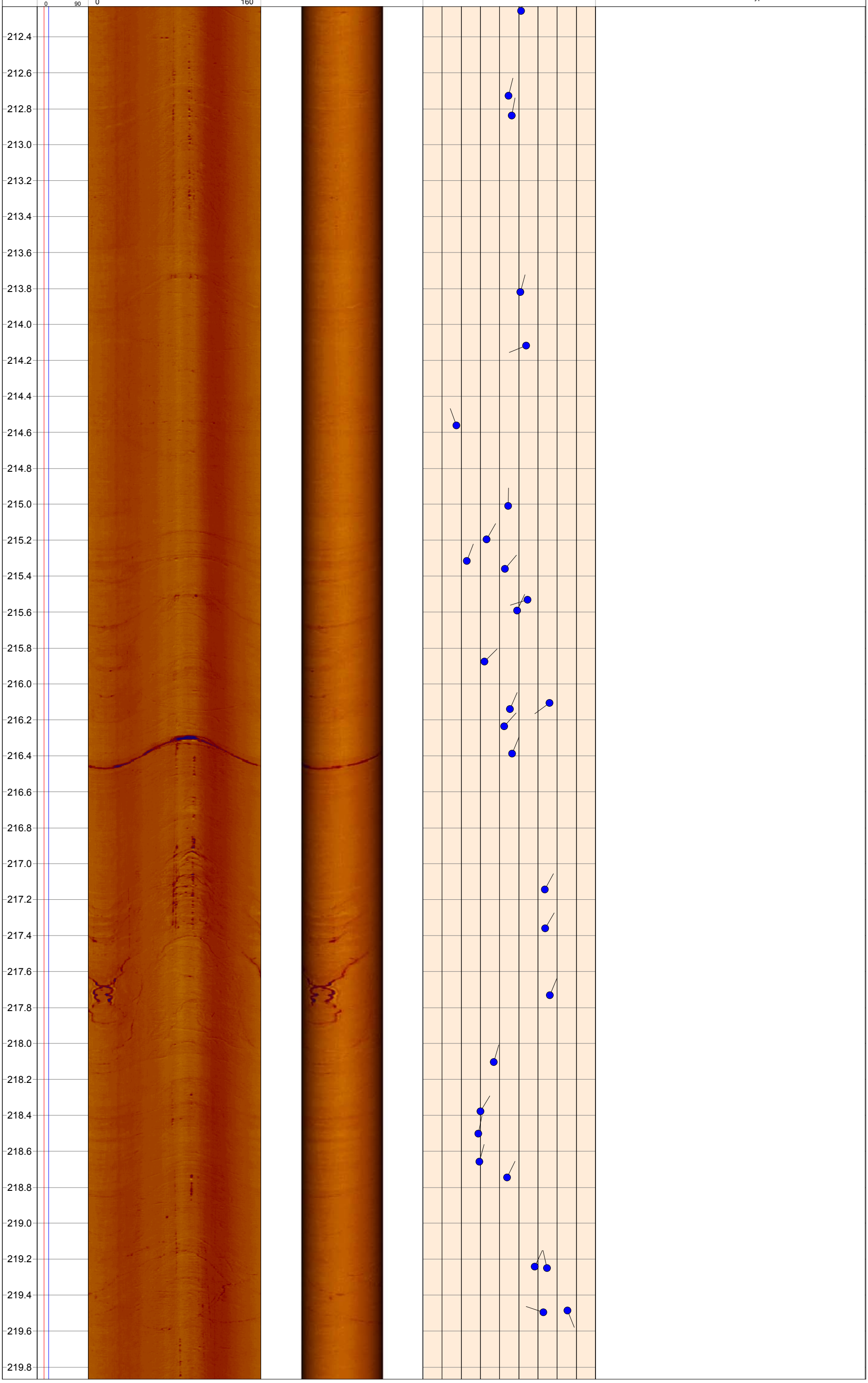
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360 / Tilt 0 90	0° 90° 180° 270° 0° / 0 160	-0°	0 90	Wulff Plot - LH - Type



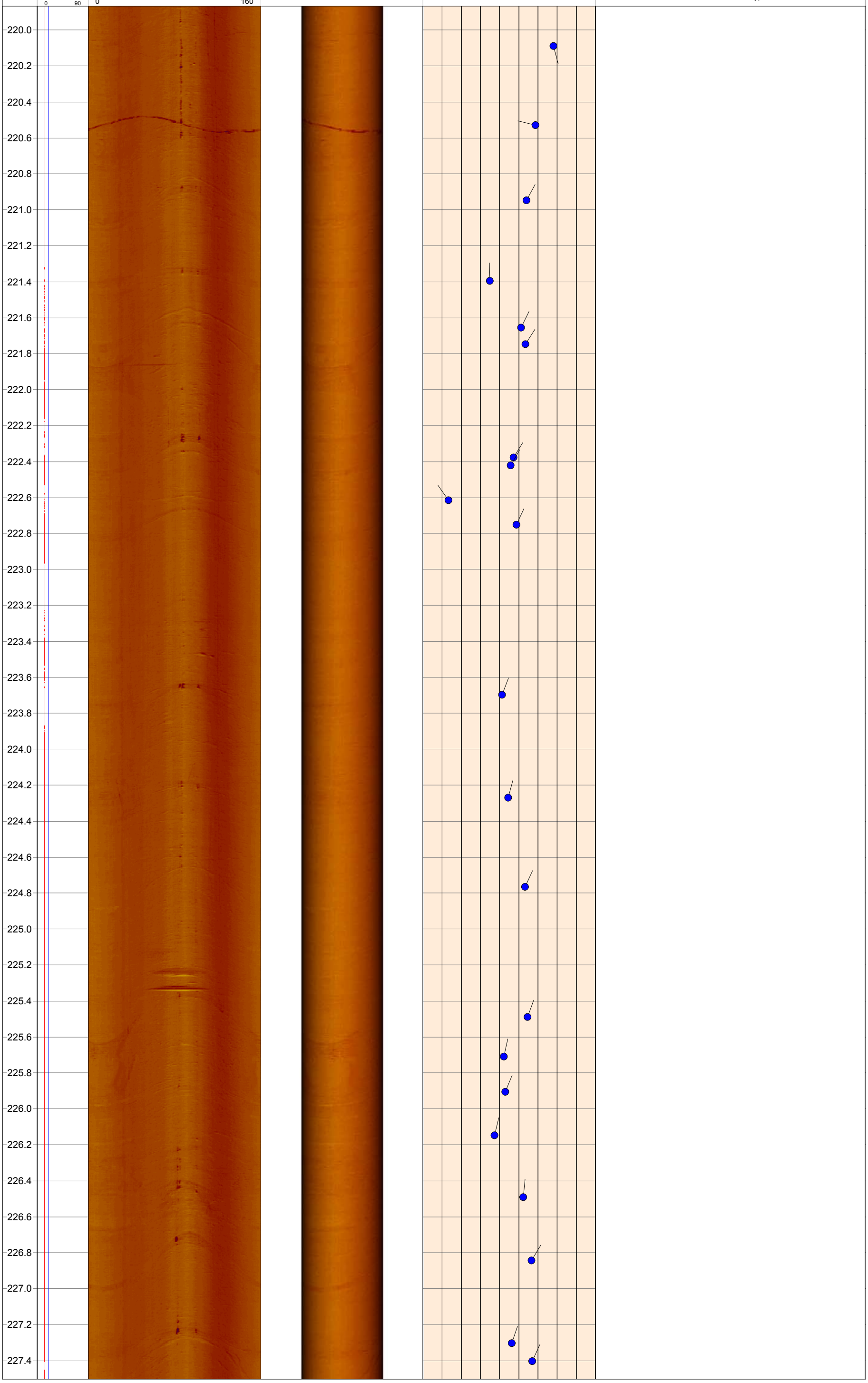
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



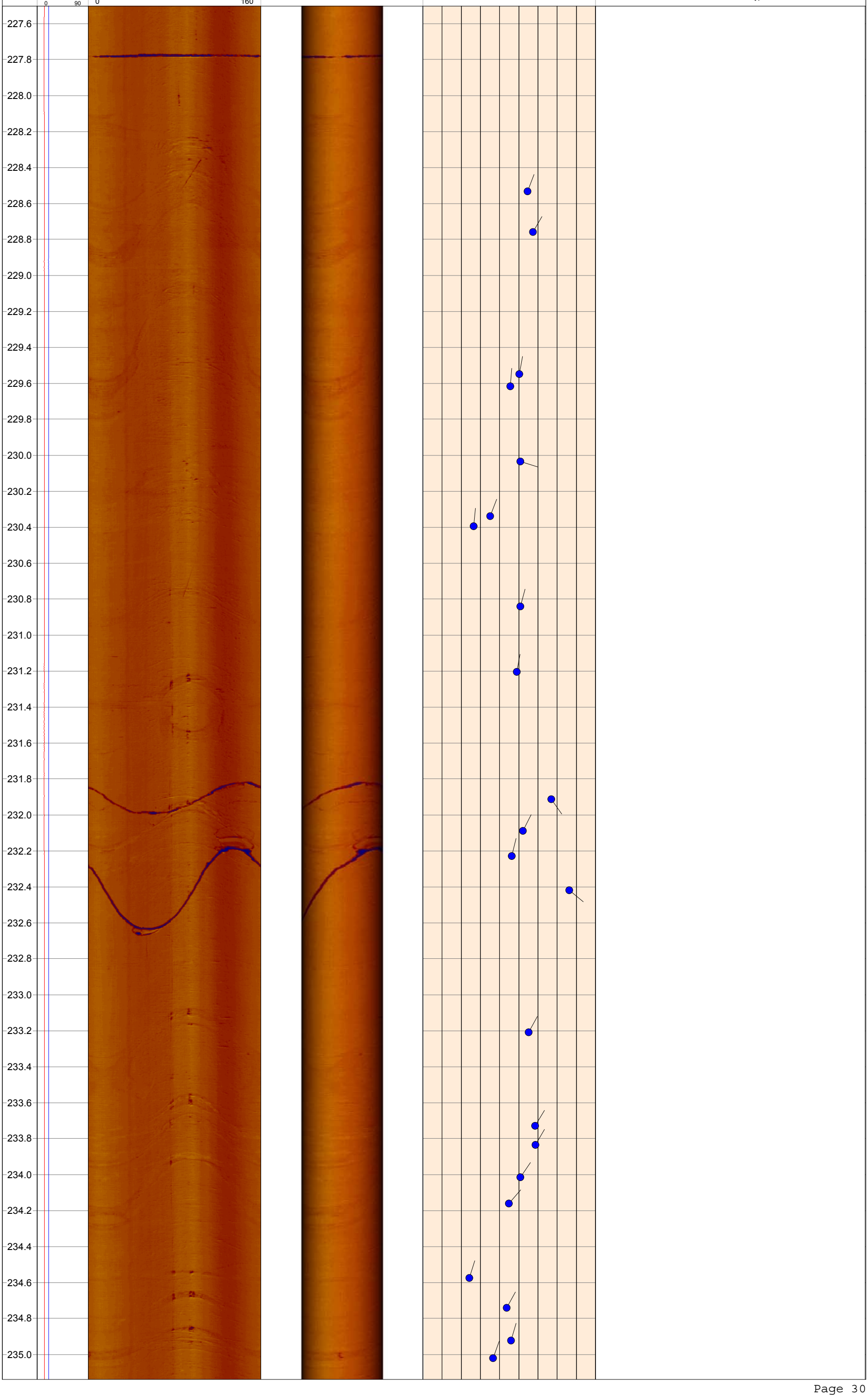
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



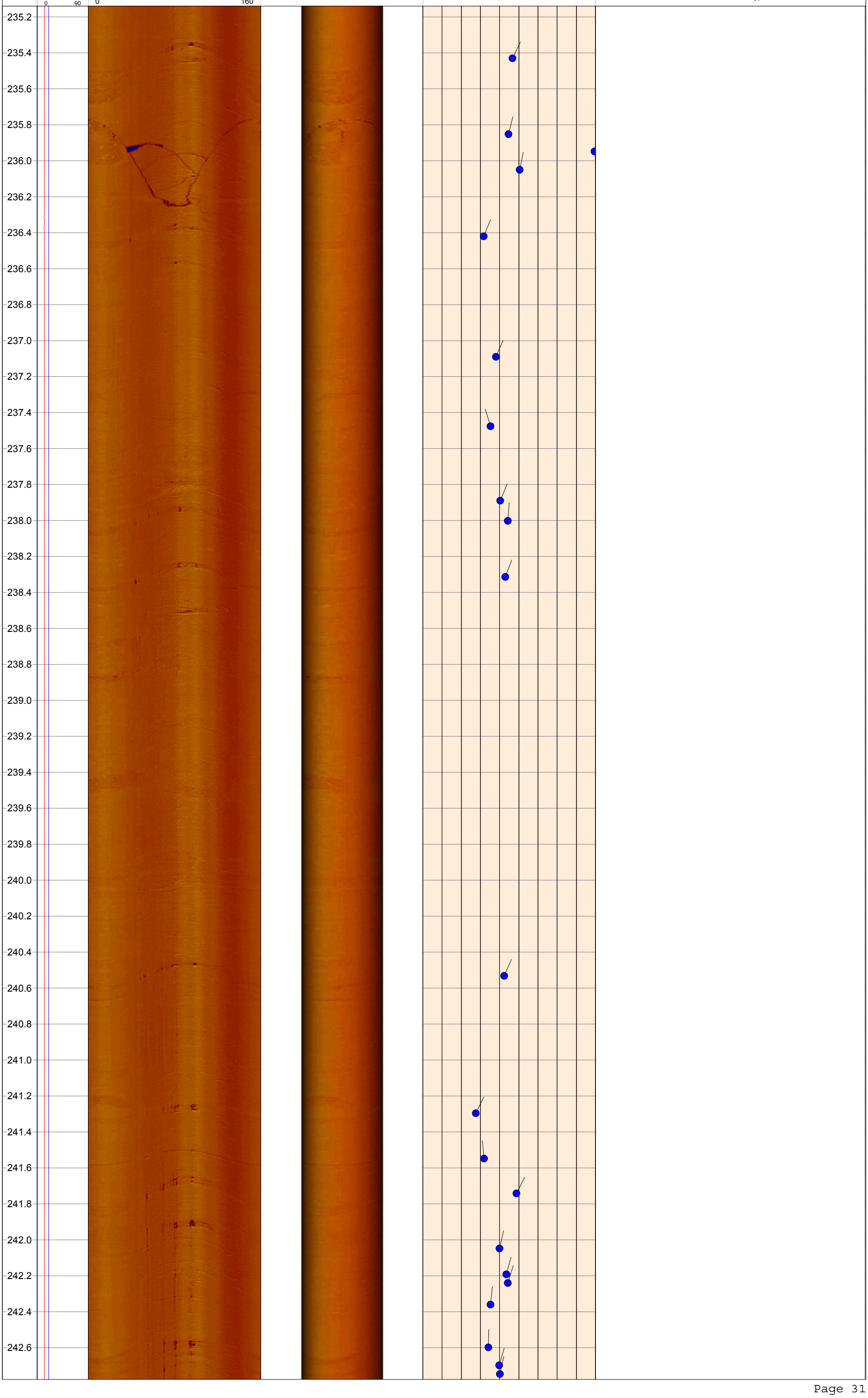
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



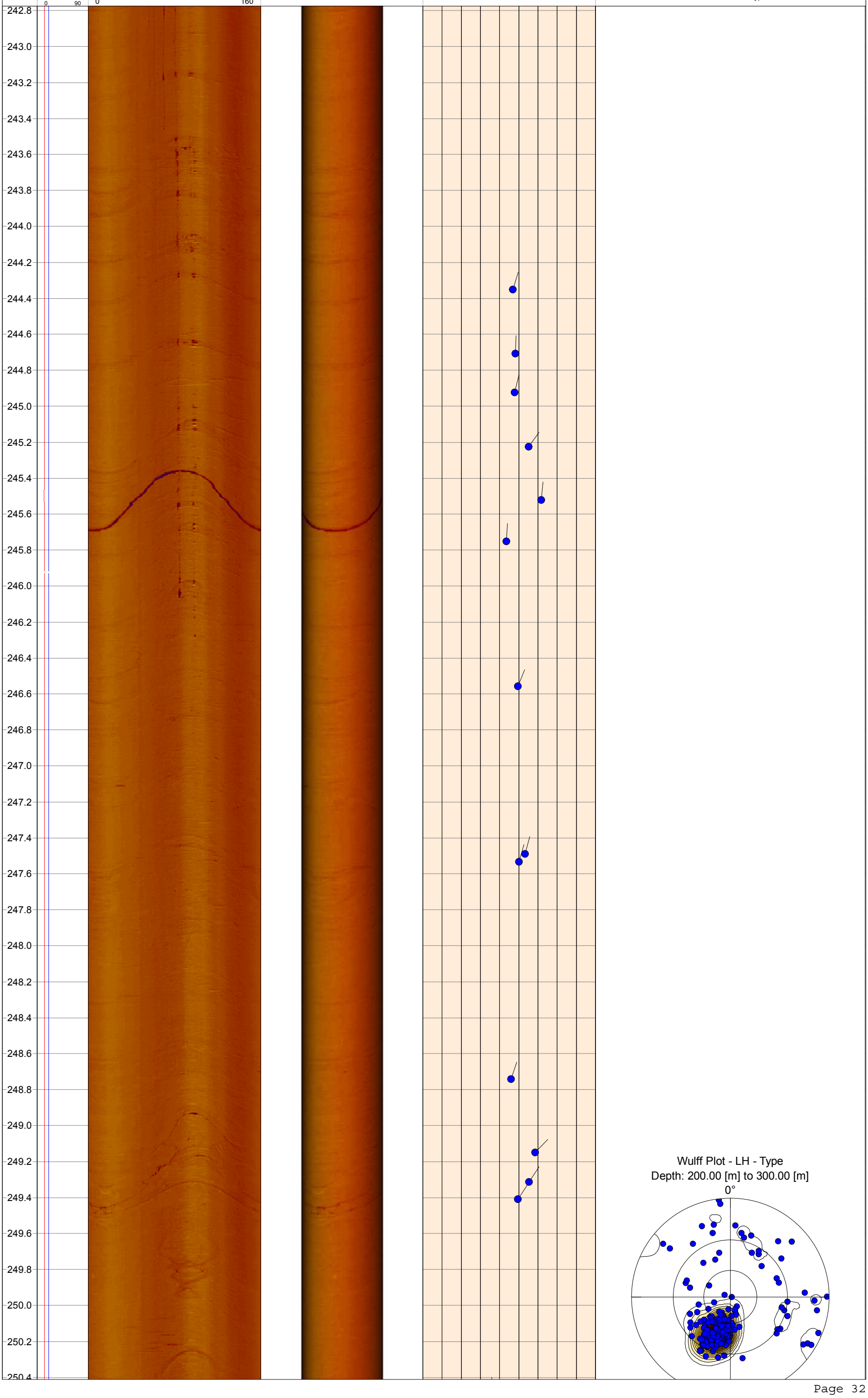
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				

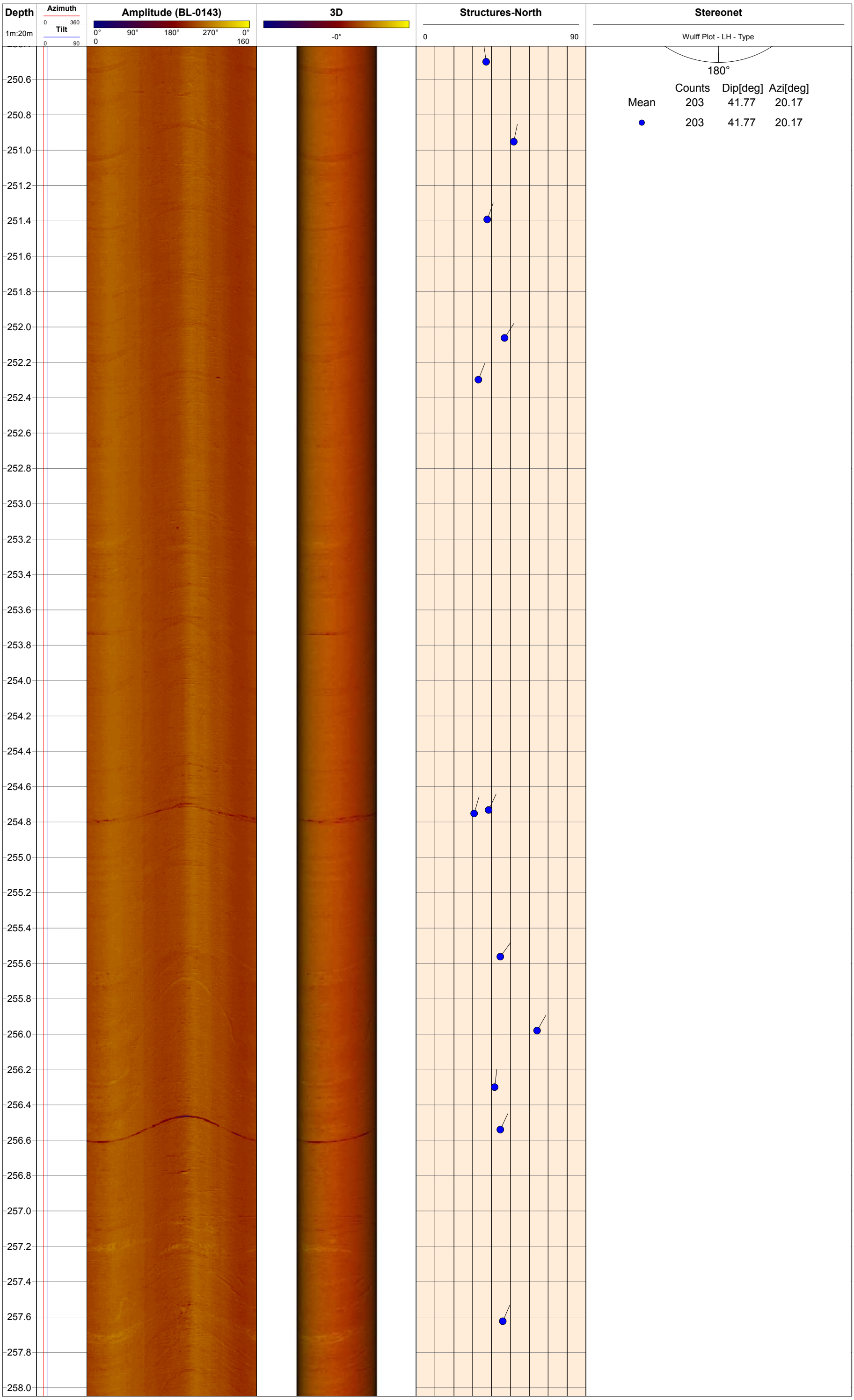


Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				

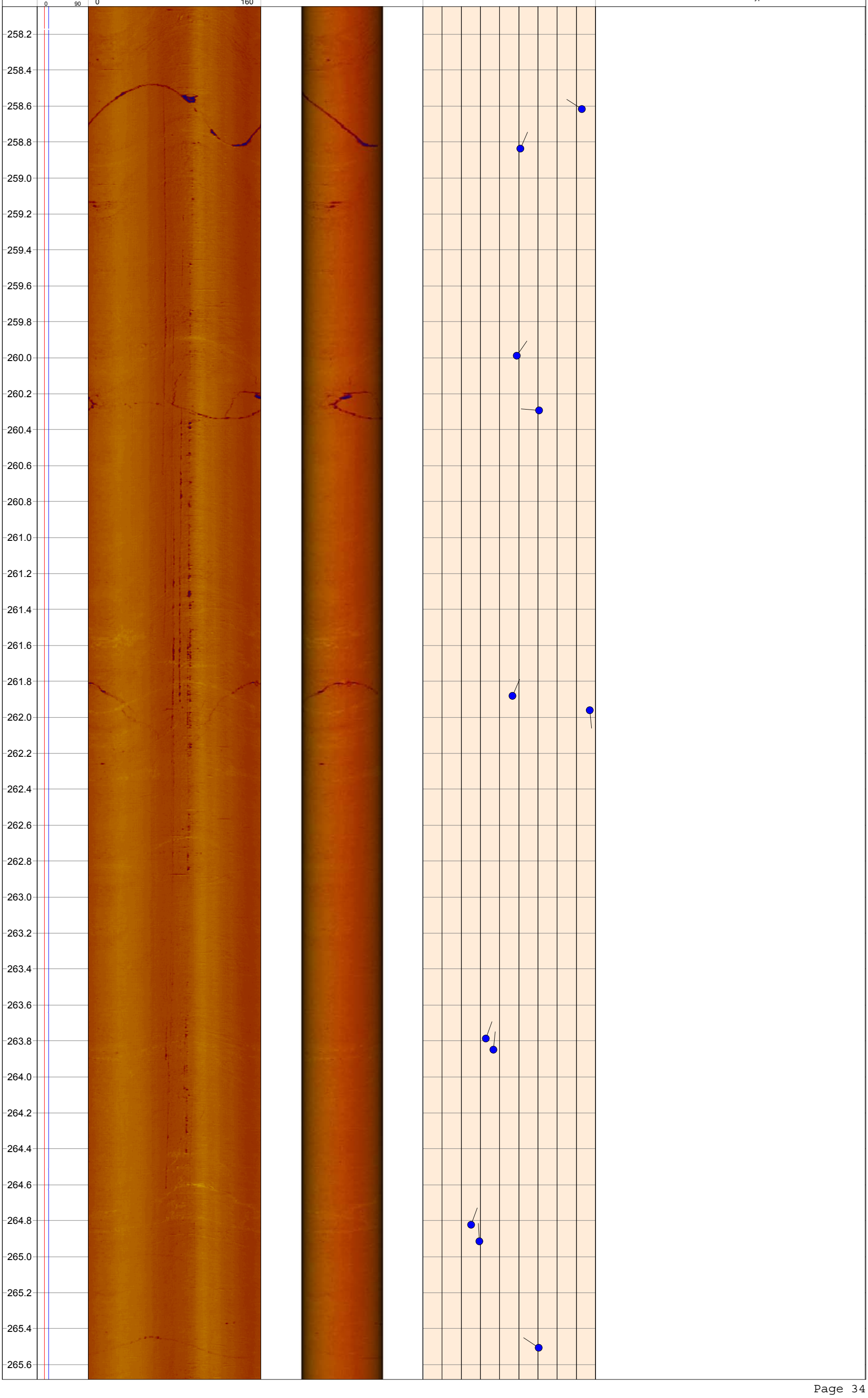


Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				

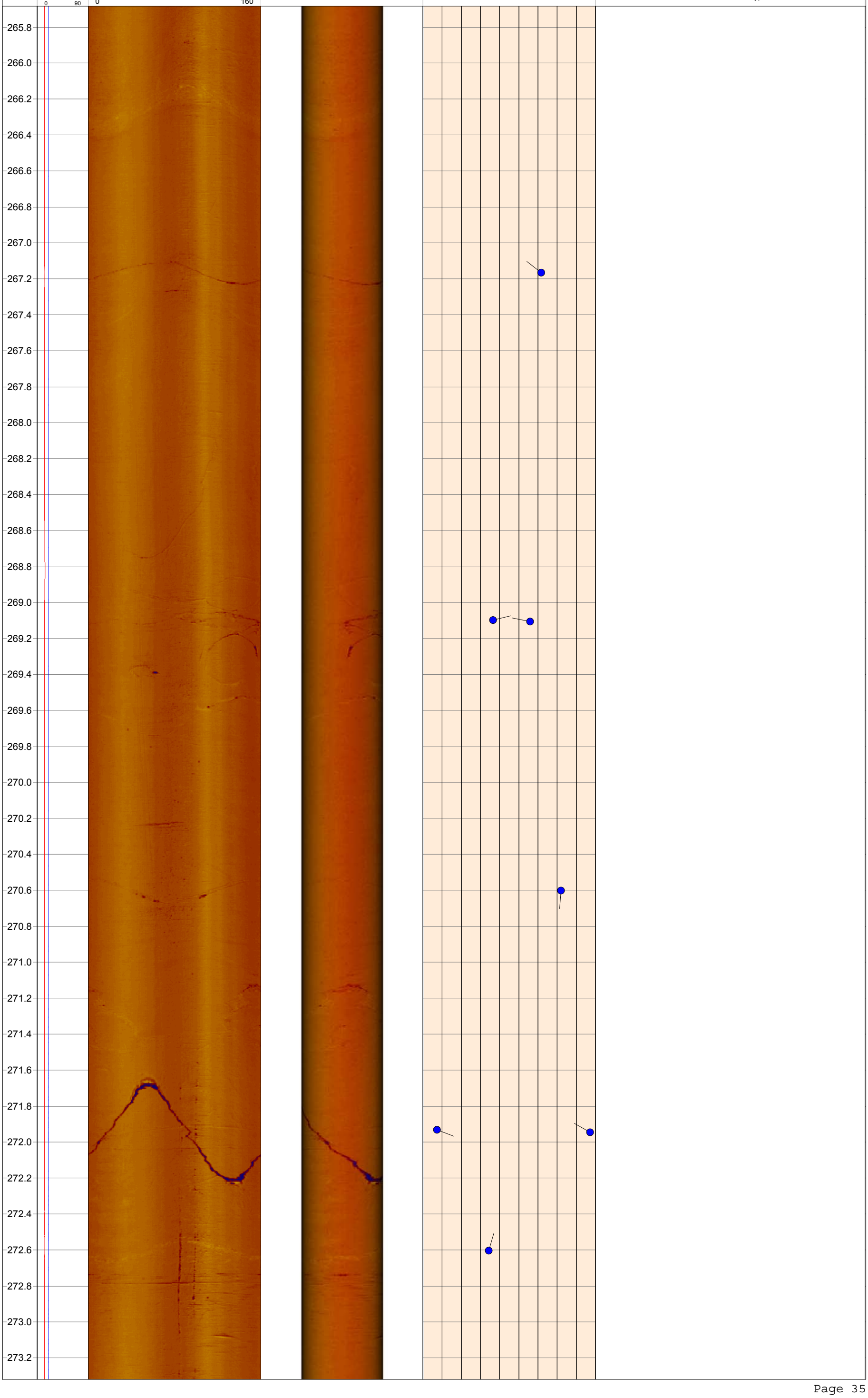



Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0143)
0°
90°
180°
270°
0°
0
160
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
180°
Counts
Dip[deg]
Azi[deg]
Mean
203
41.77
20.17
203
41.77
20.17
250.6
250.8
251.0
251.2
251.4
251.6
251.8
252.0
252.2
252.4
252.6
252.8
253.0
253.2
253.4
253.6
253.8
254.0
254.2
254.4
254.6
254.8
255.0
255.2
255.4
255.6
255.8
256.0
256.2
256.4
256.6
256.8
257.0
257.2
257.4
257.6
257.8
258.0

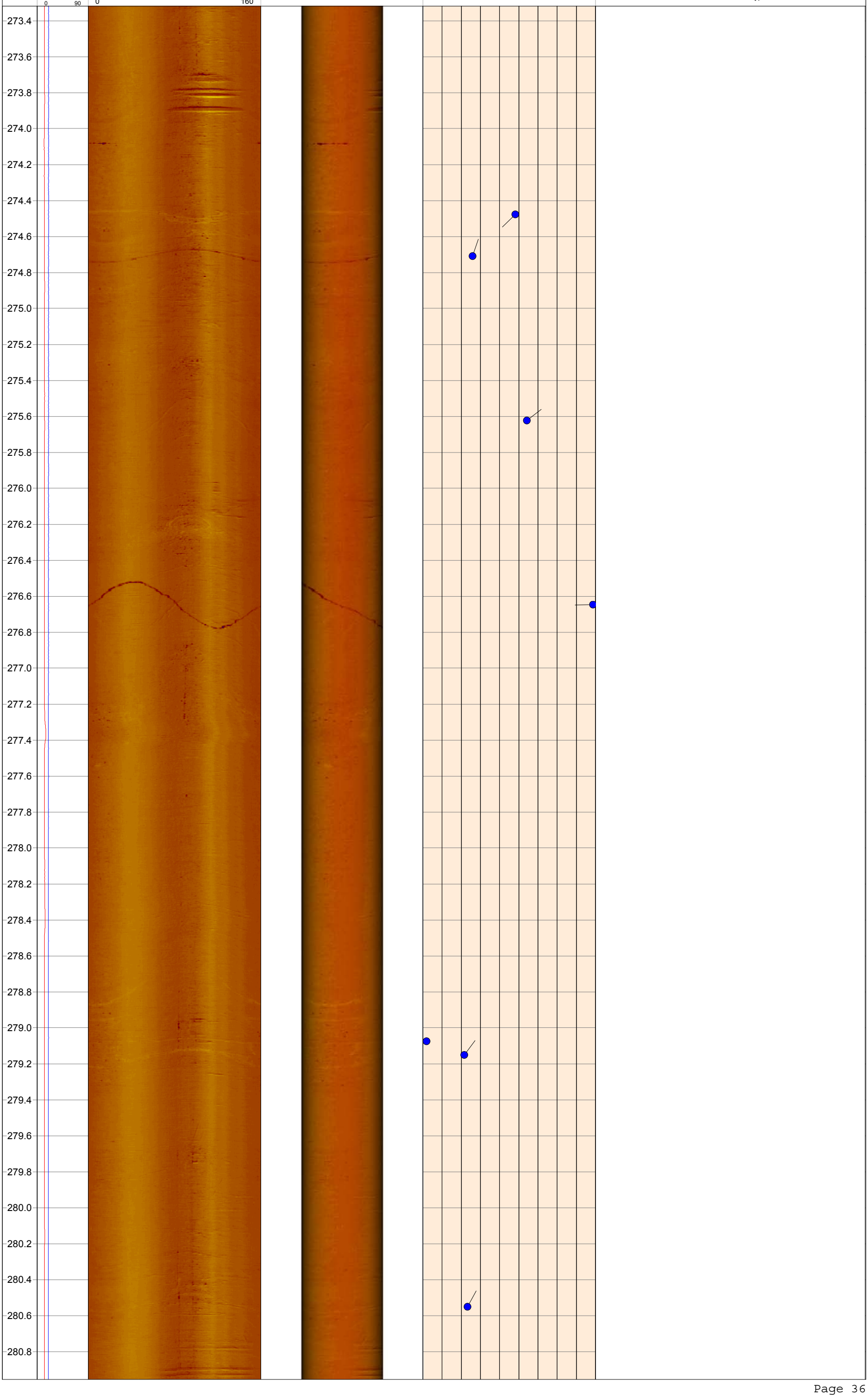
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360 / Tilt 0 90	0° 90° 180° 270° 0° / 0 160	-0°	0 90	Wulff Plot - LH - Type



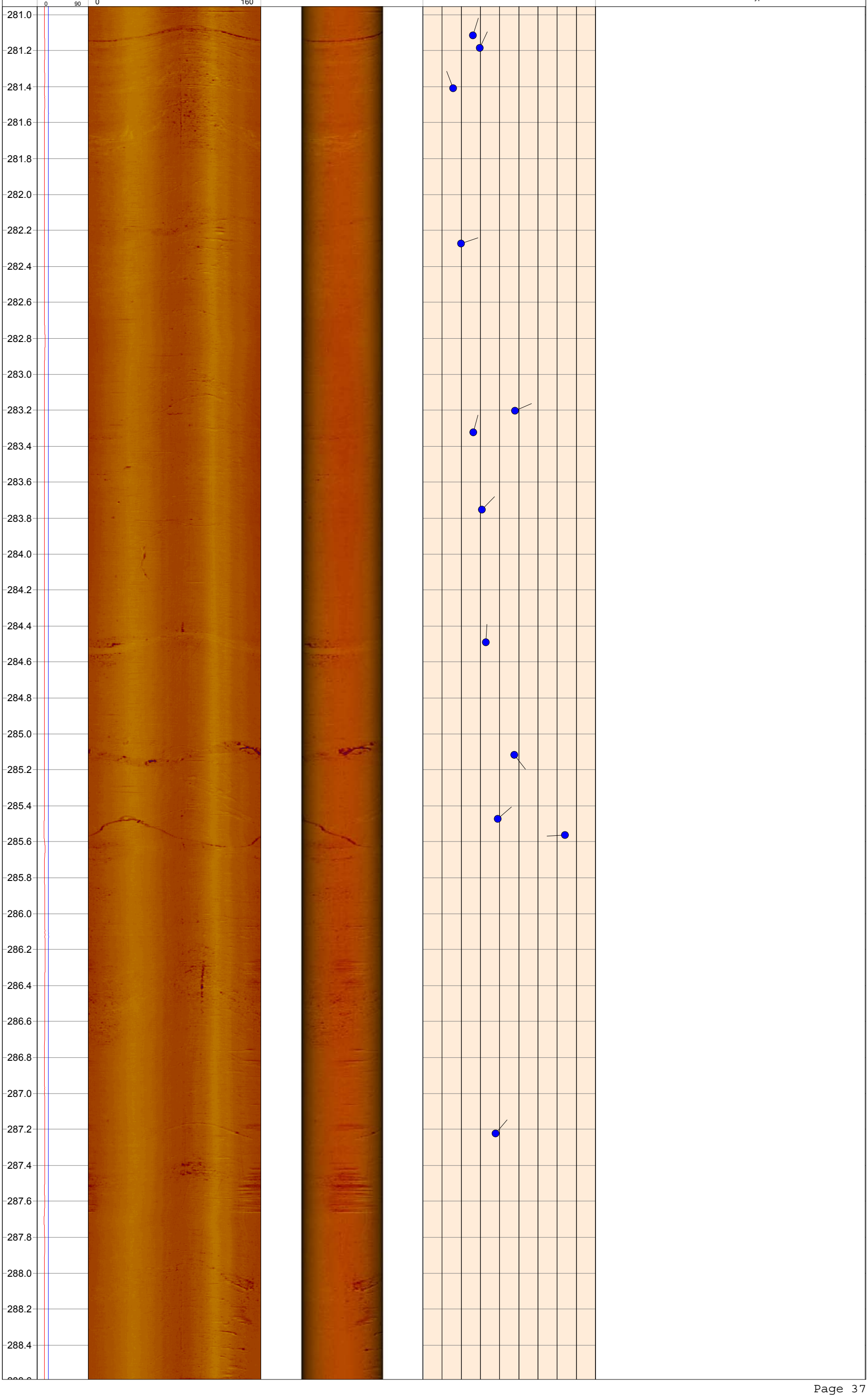
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



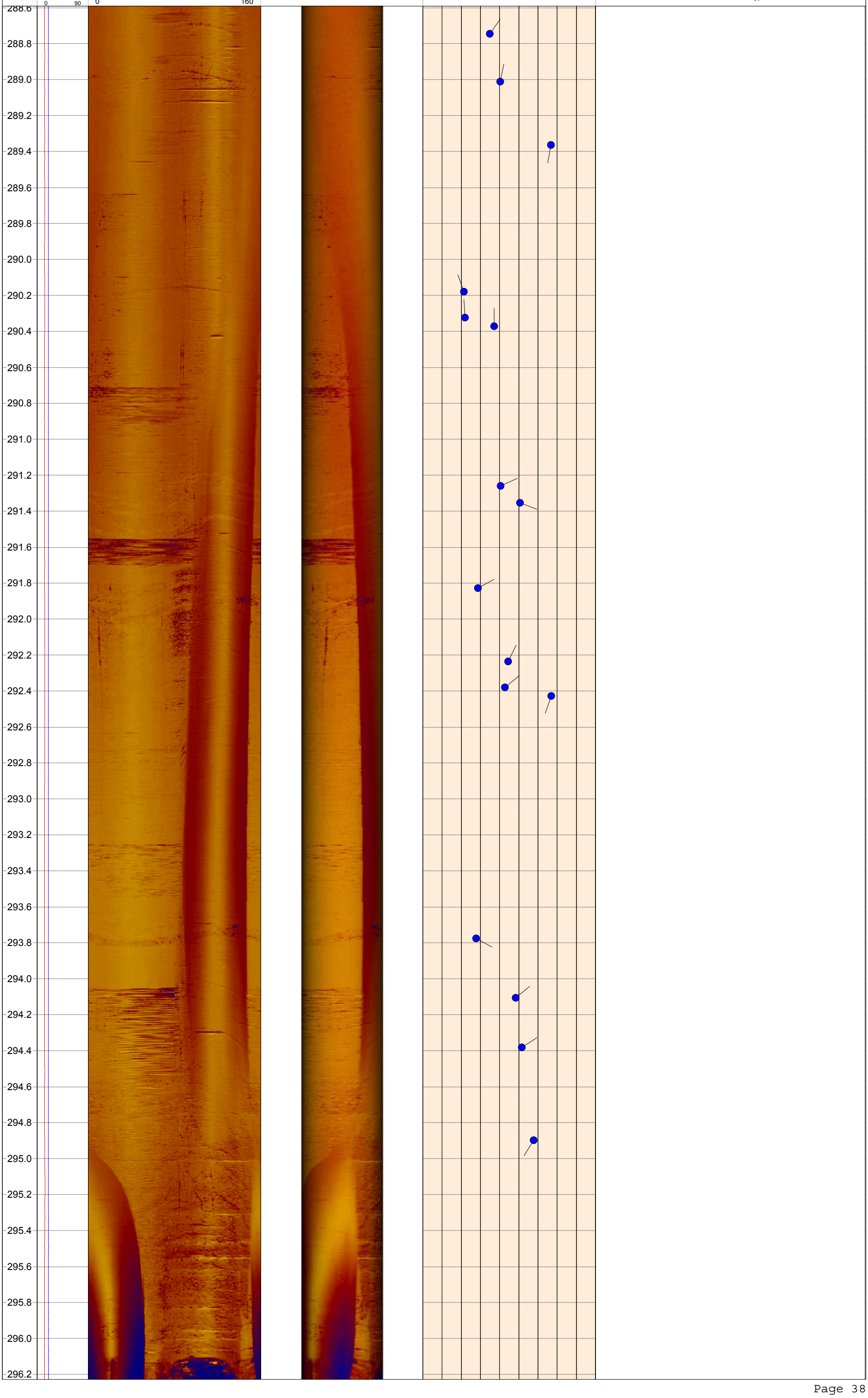
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



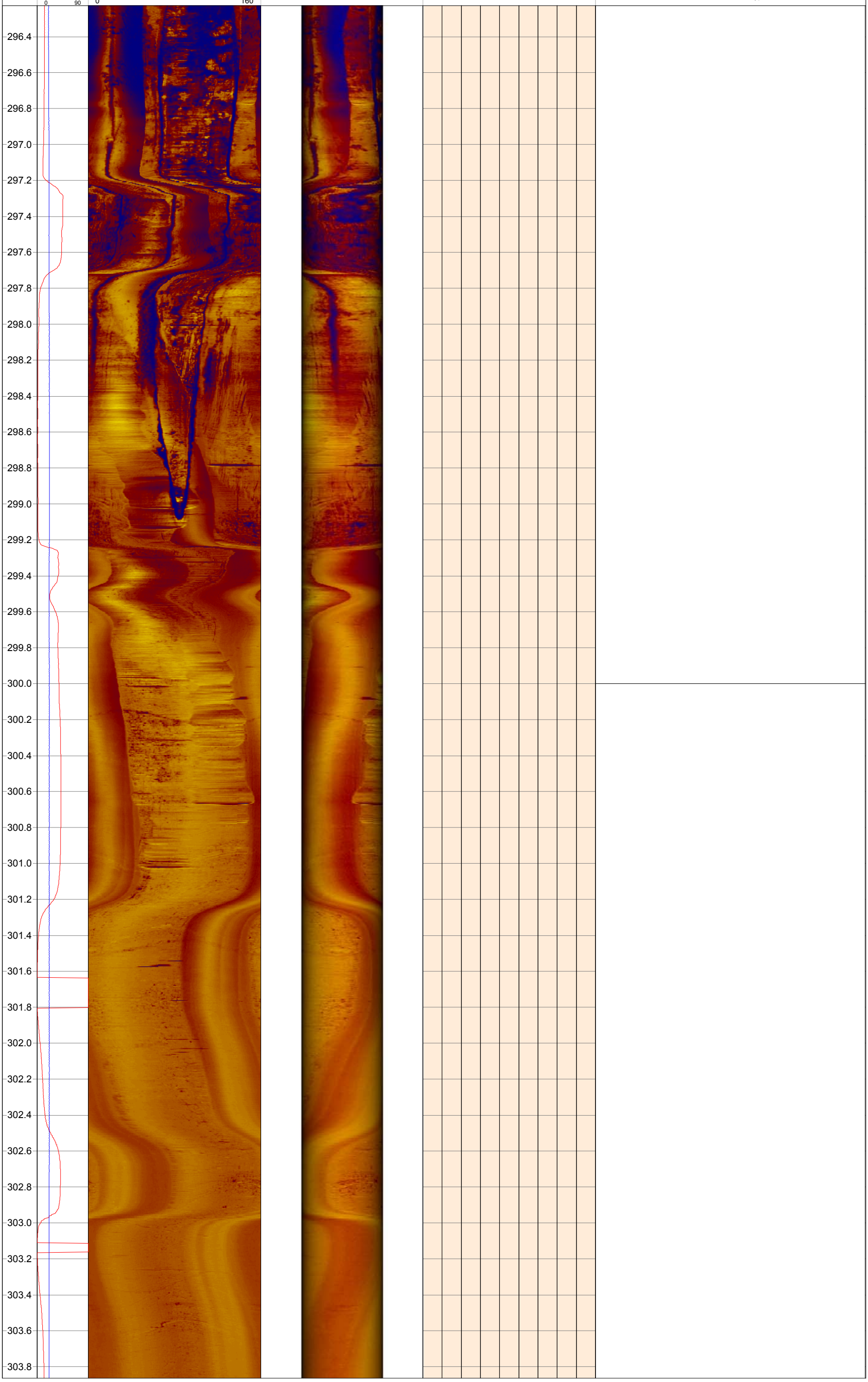
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



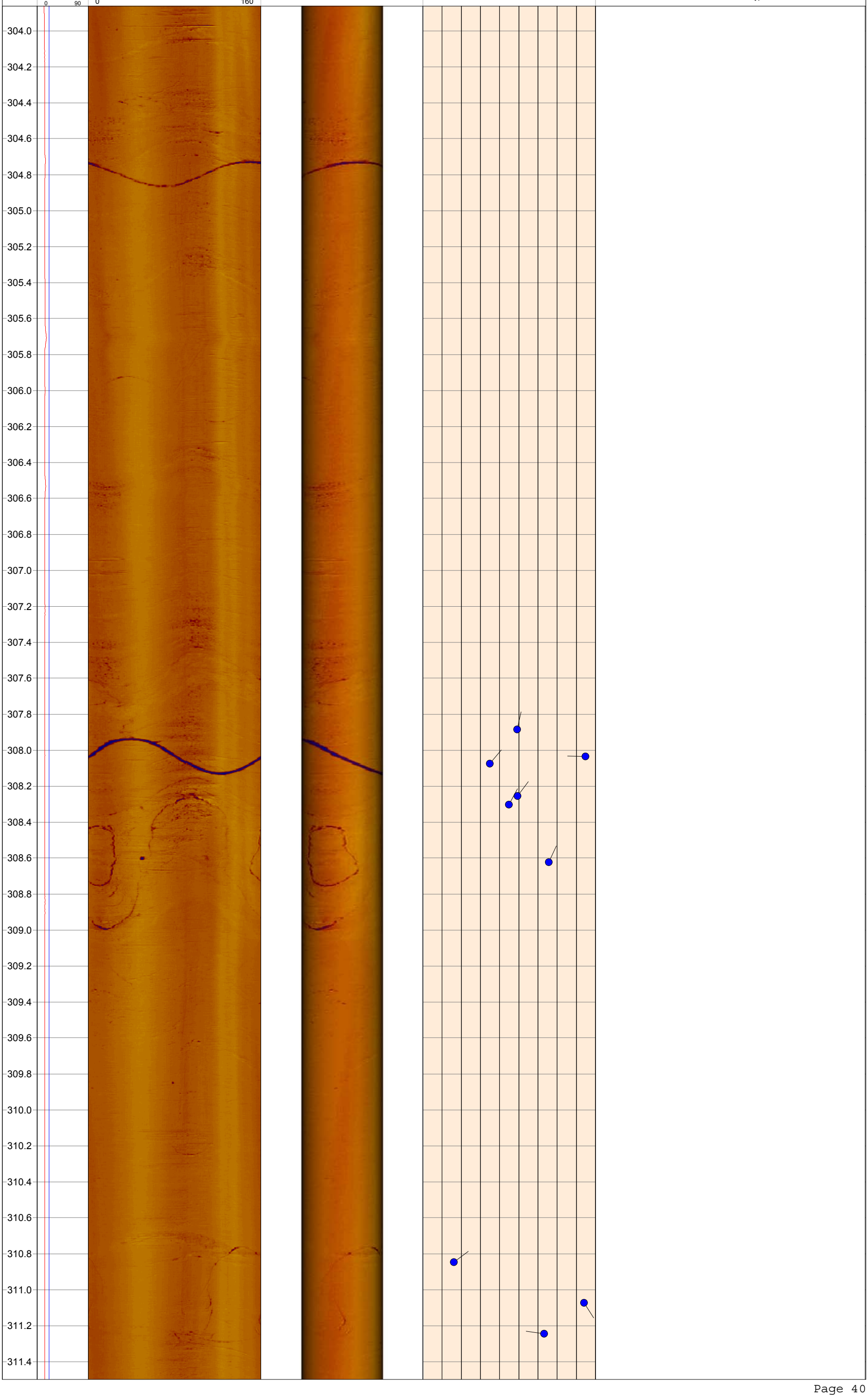
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



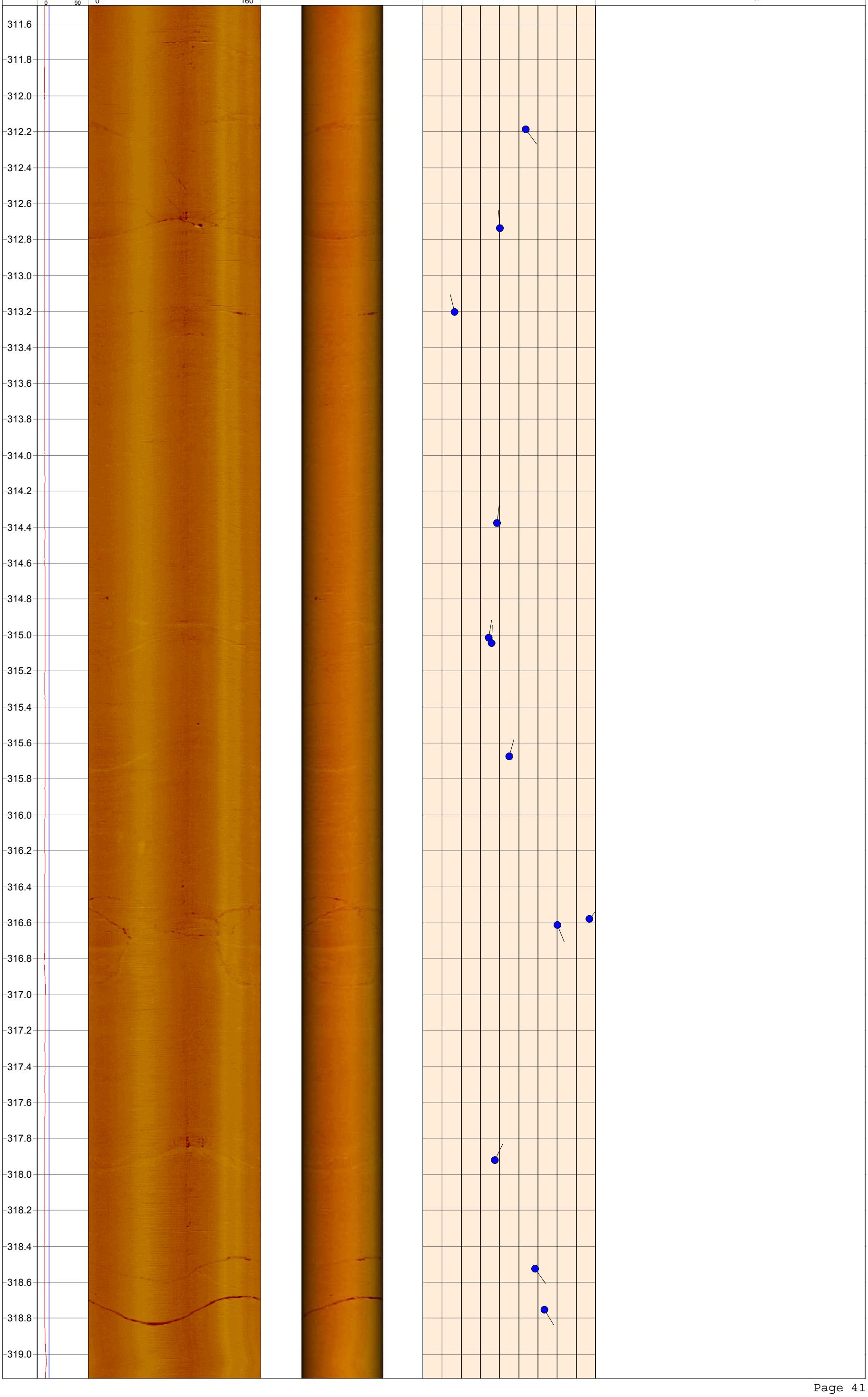
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				

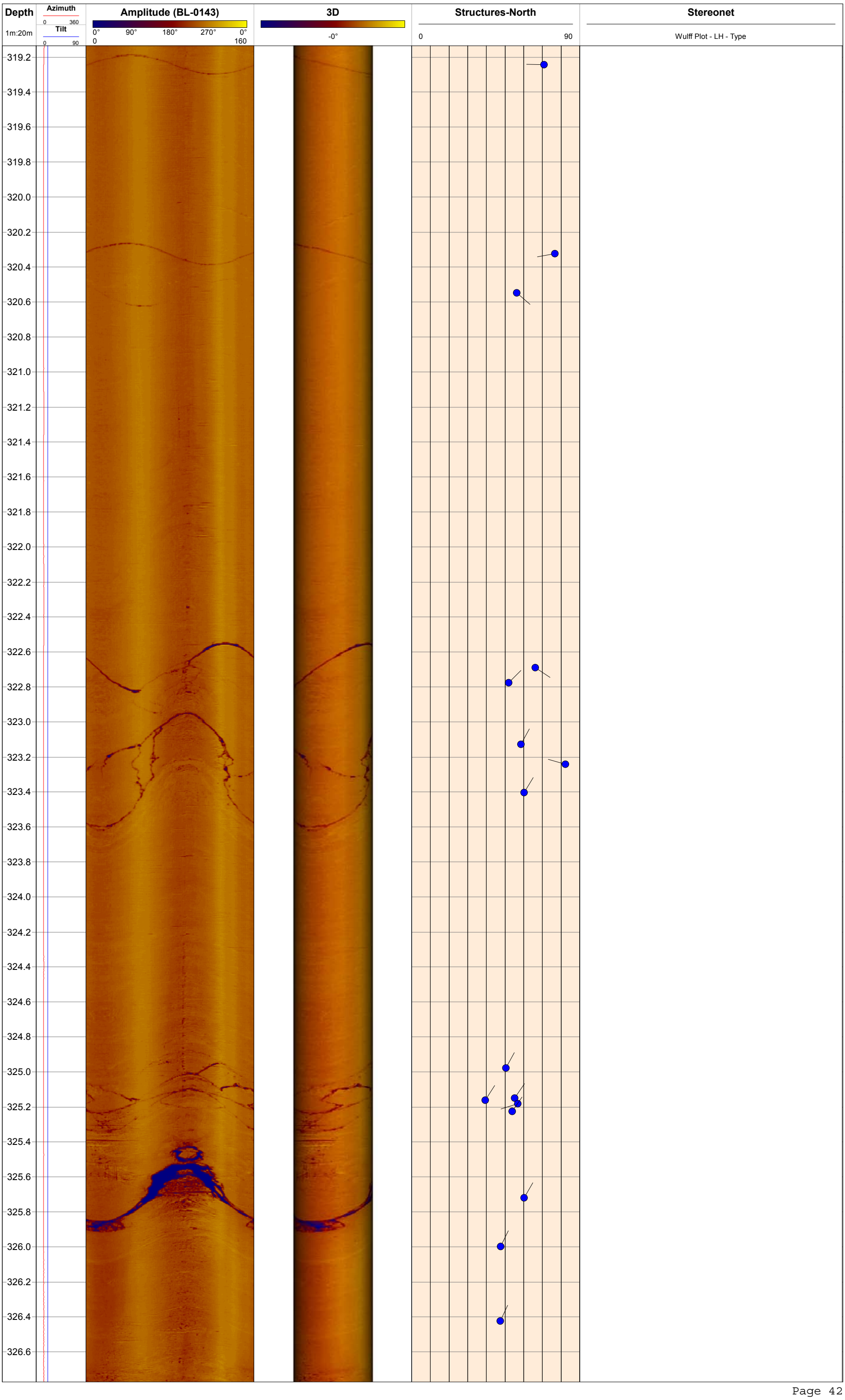


Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				

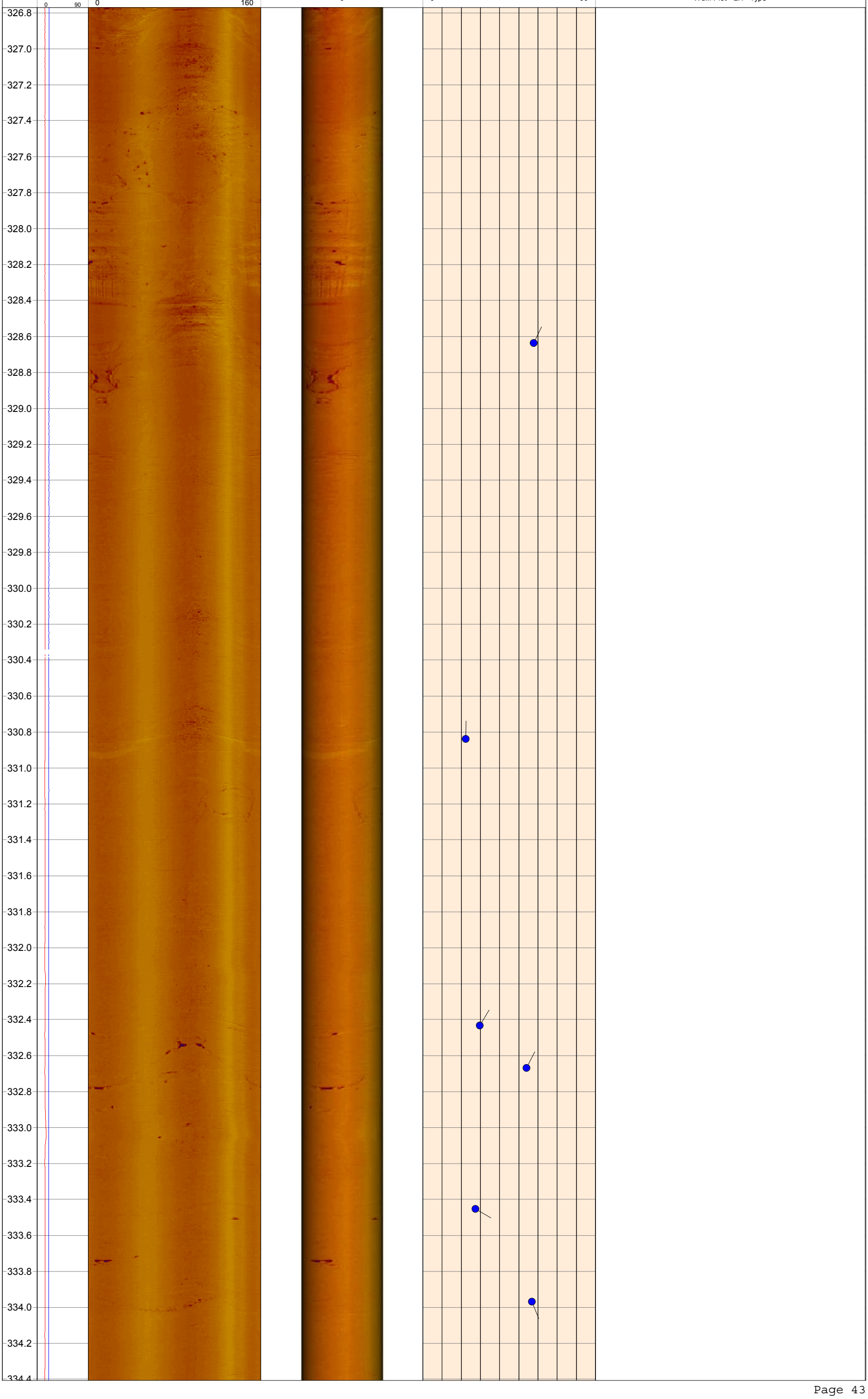


Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				

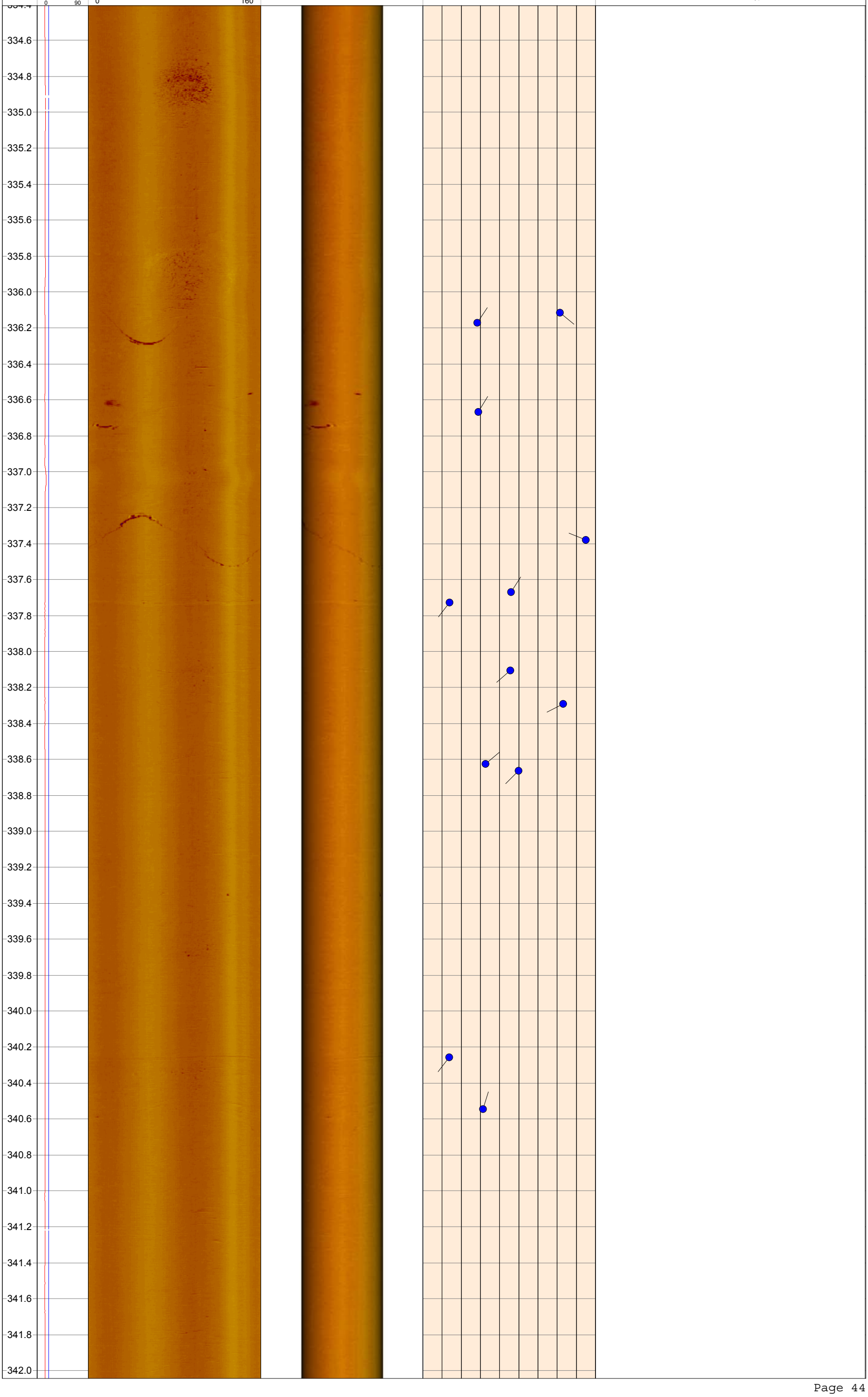



Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0143)
0°
90°
180°
270°
0°
0
160
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
319.2
319.4
319.6
319.8
320.0
320.2
320.4
320.6
320.8
321.0
321.2
321.4
321.6
321.8
322.0
322.2
322.4
322.6
322.8
323.0
323.2
323.4
323.6
323.8
324.0
324.2
324.4
324.6
324.8
325.0
325.2
325.4
325.6
325.8
326.0
326.2
326.4
326.6

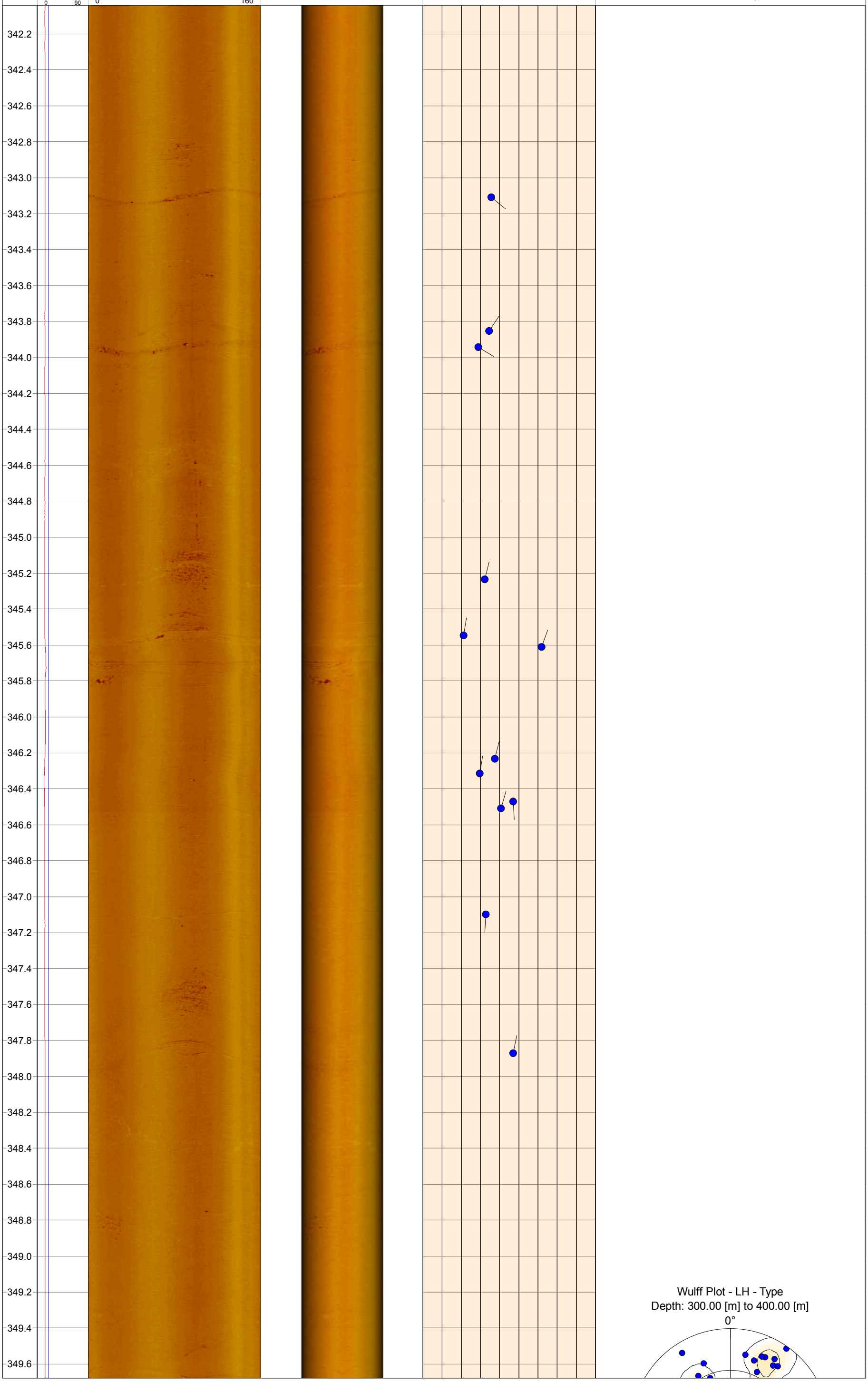
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360 / Tilt 0 90	0° 90° 180° 270° 0° / 0 160	-0°	0 90	Wulff Plot - LH - Type



Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



Wulff Plot - LH - Type
Depth: 300.00 [m] to 400.00 [m]
0°

Depth

1m:20m

Azimuth

0 360

Tilt

0 90

Amplitude (BL-0143)

0° 90° 180° 270° 0°

0 160

3D

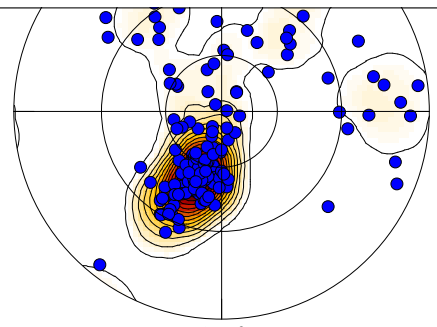
-0°

Structures-North

0 90

Stereonet

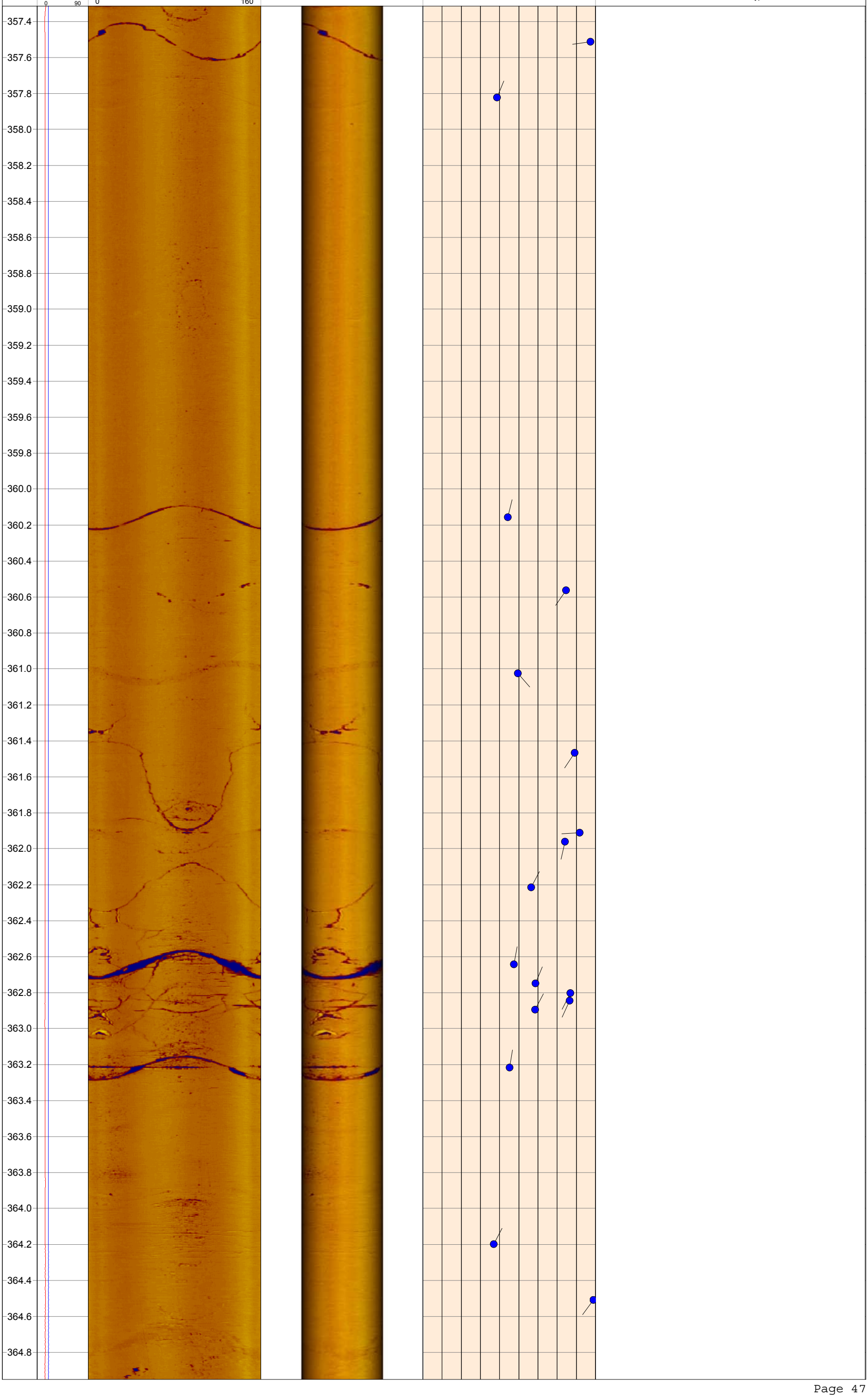
Wulff Plot - LH - Type



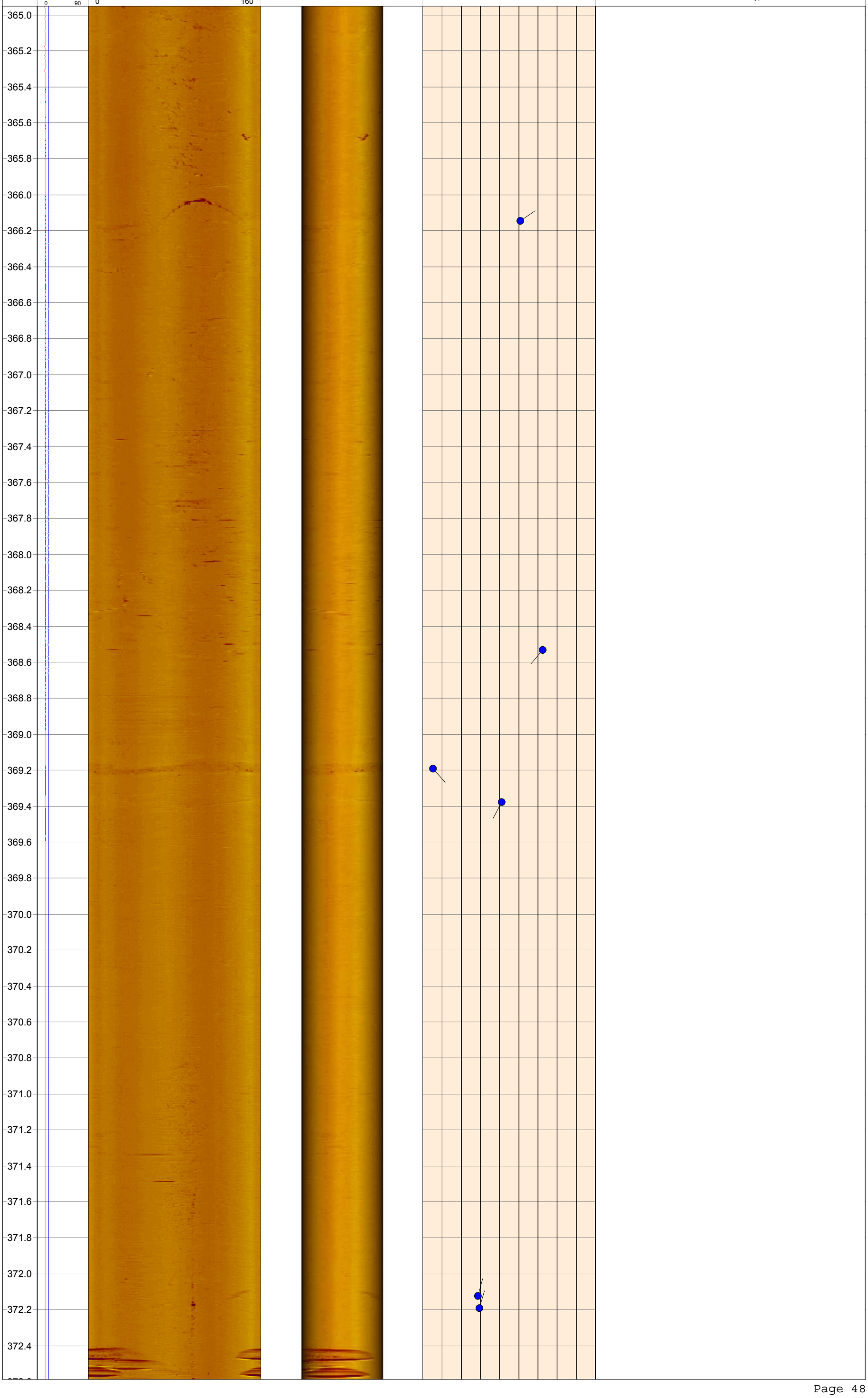
180°

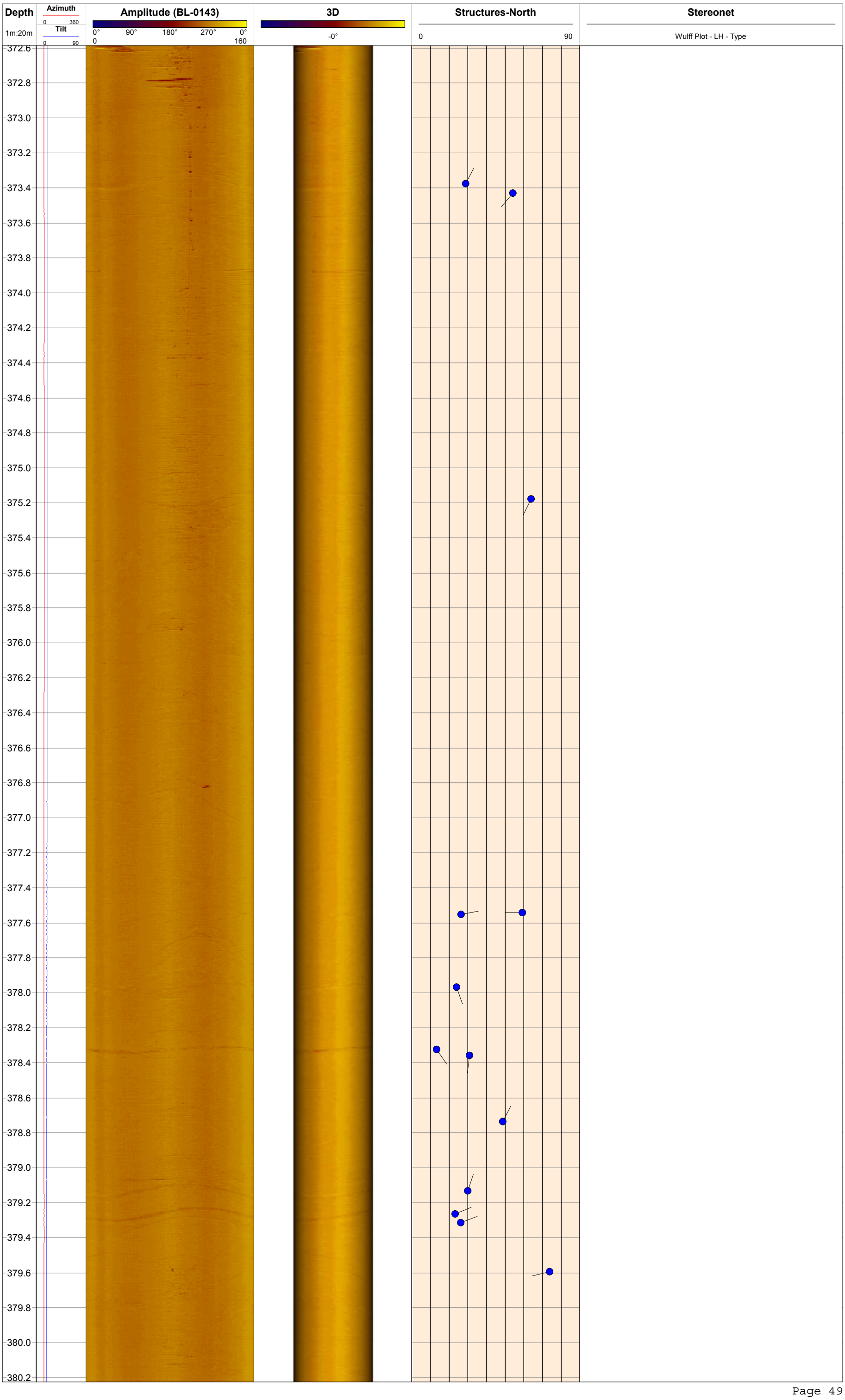
	Counts	Dip[deg]	Azi[deg]
Mean	144	32.78	26.18
●	144	32.78	26.18

Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				

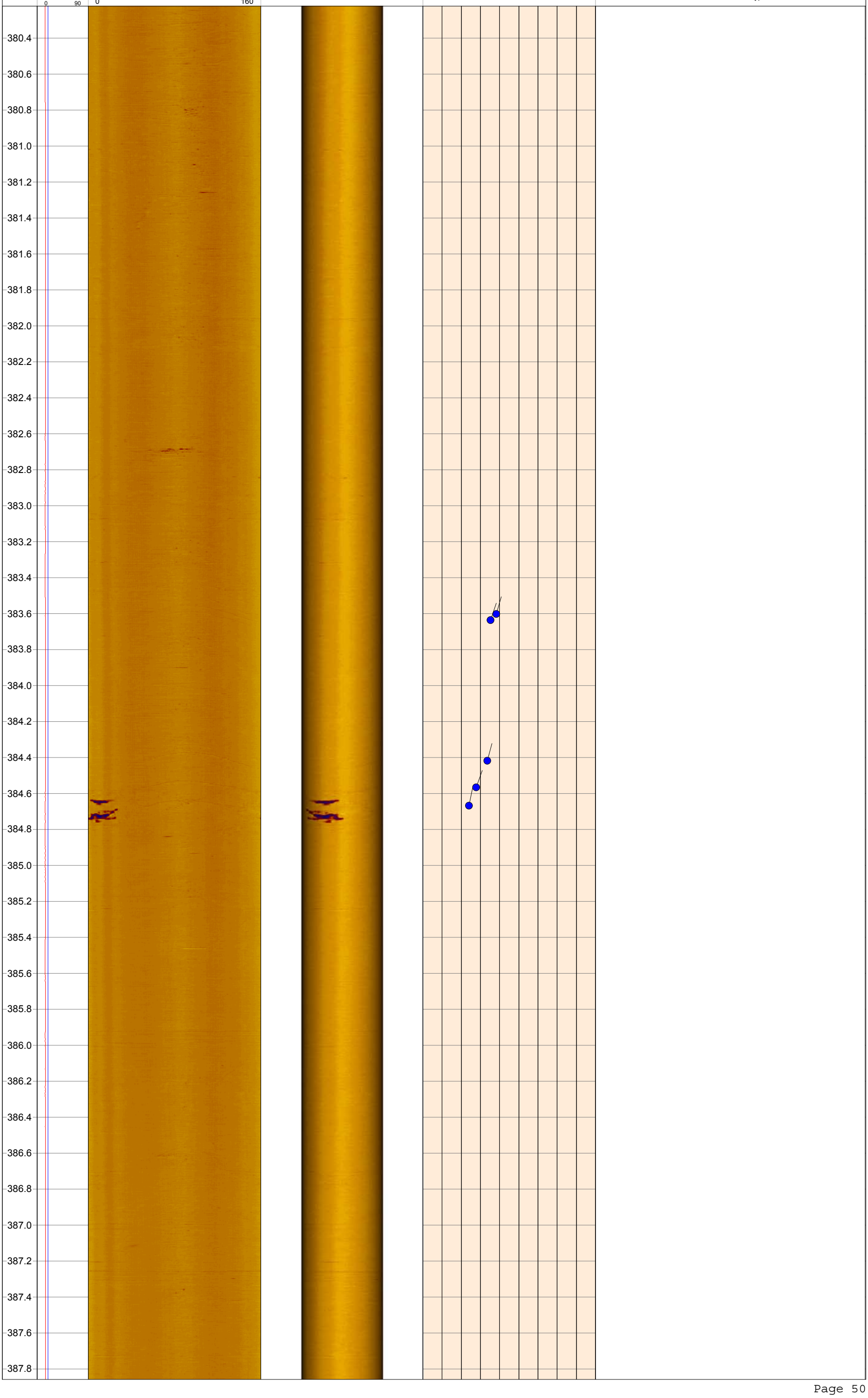


Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				

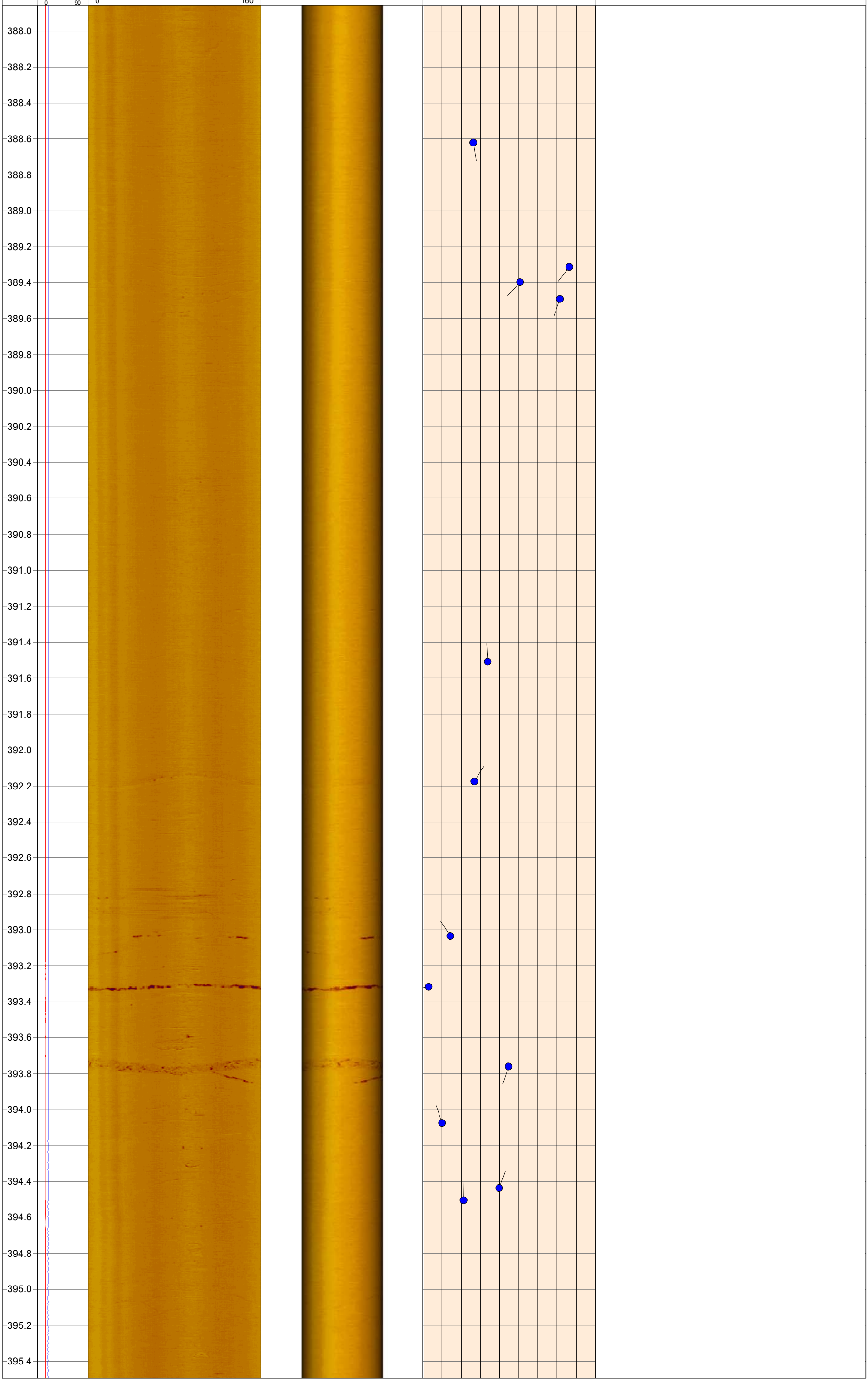



Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0143)
0°
90°
180°
270°
0°
0
160
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
372.6
372.8
373.0
373.2
373.4
373.6
373.8
374.0
374.2
374.4
374.6
374.8
375.0
375.2
375.4
375.6
375.8
376.0
376.2
376.4
376.6
376.8
377.0
377.2
377.4
377.6
377.8
378.0
378.2
378.4
378.6
378.8
379.0
379.2
379.4
379.6
379.8
380.0
380.2

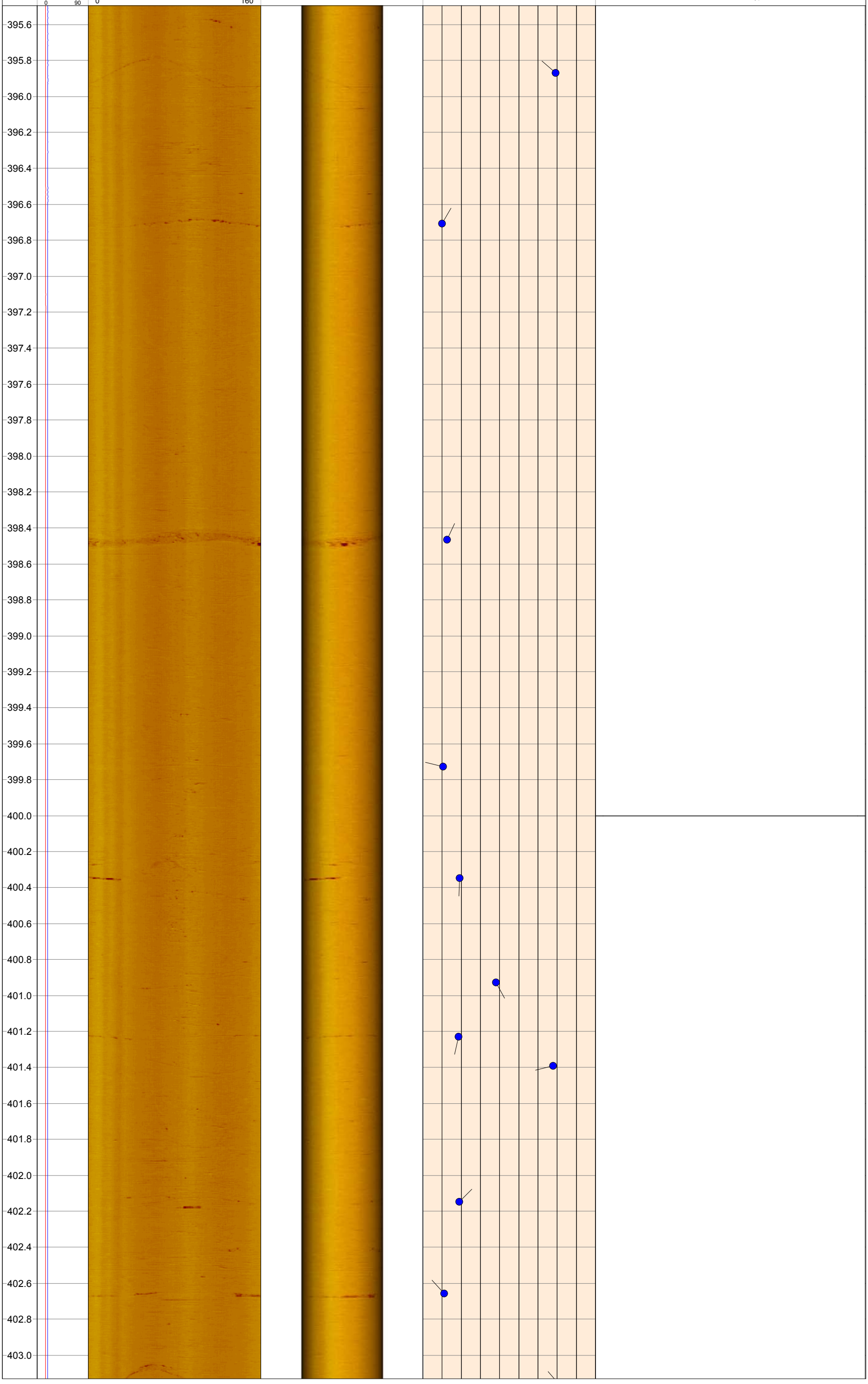
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



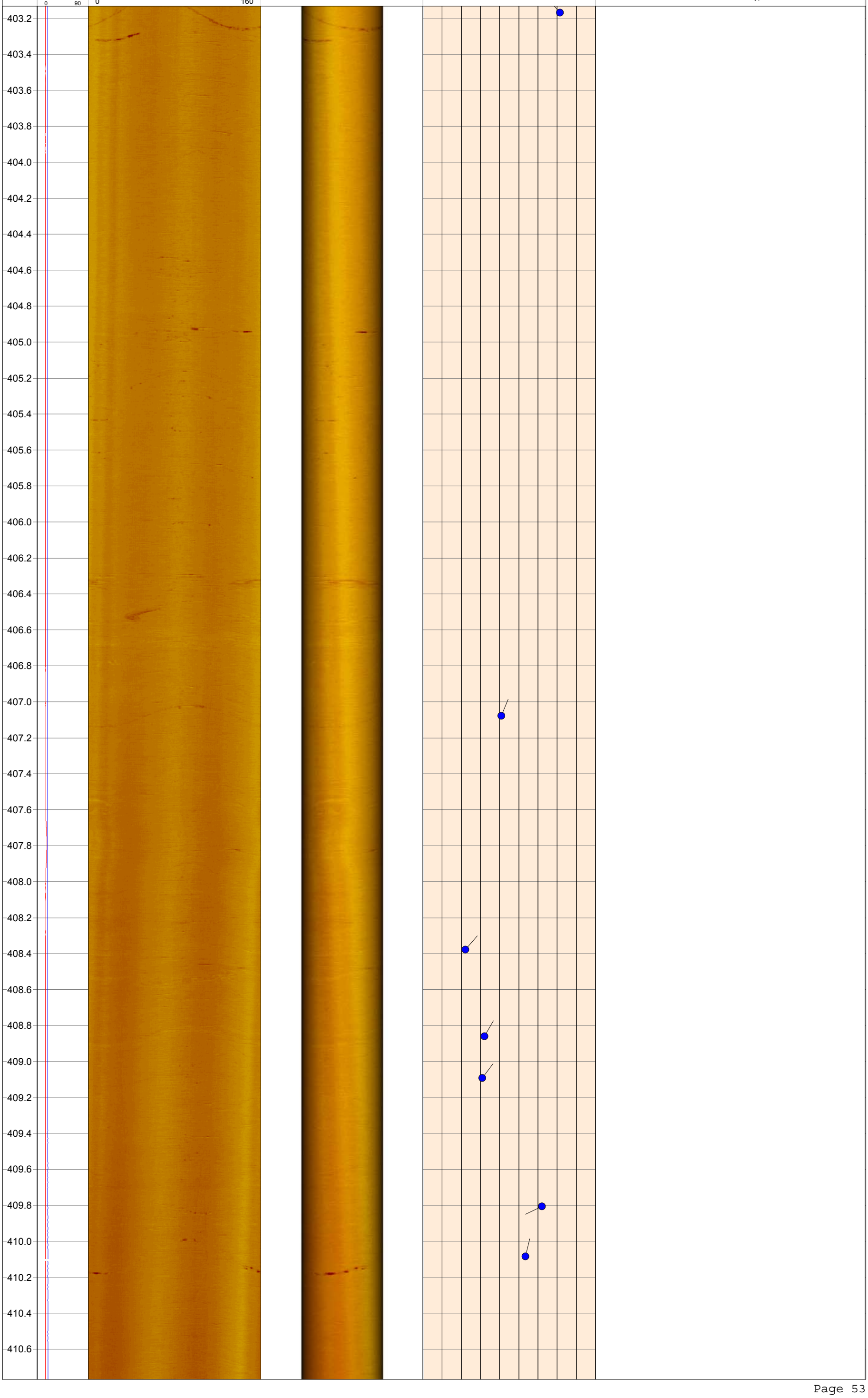
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



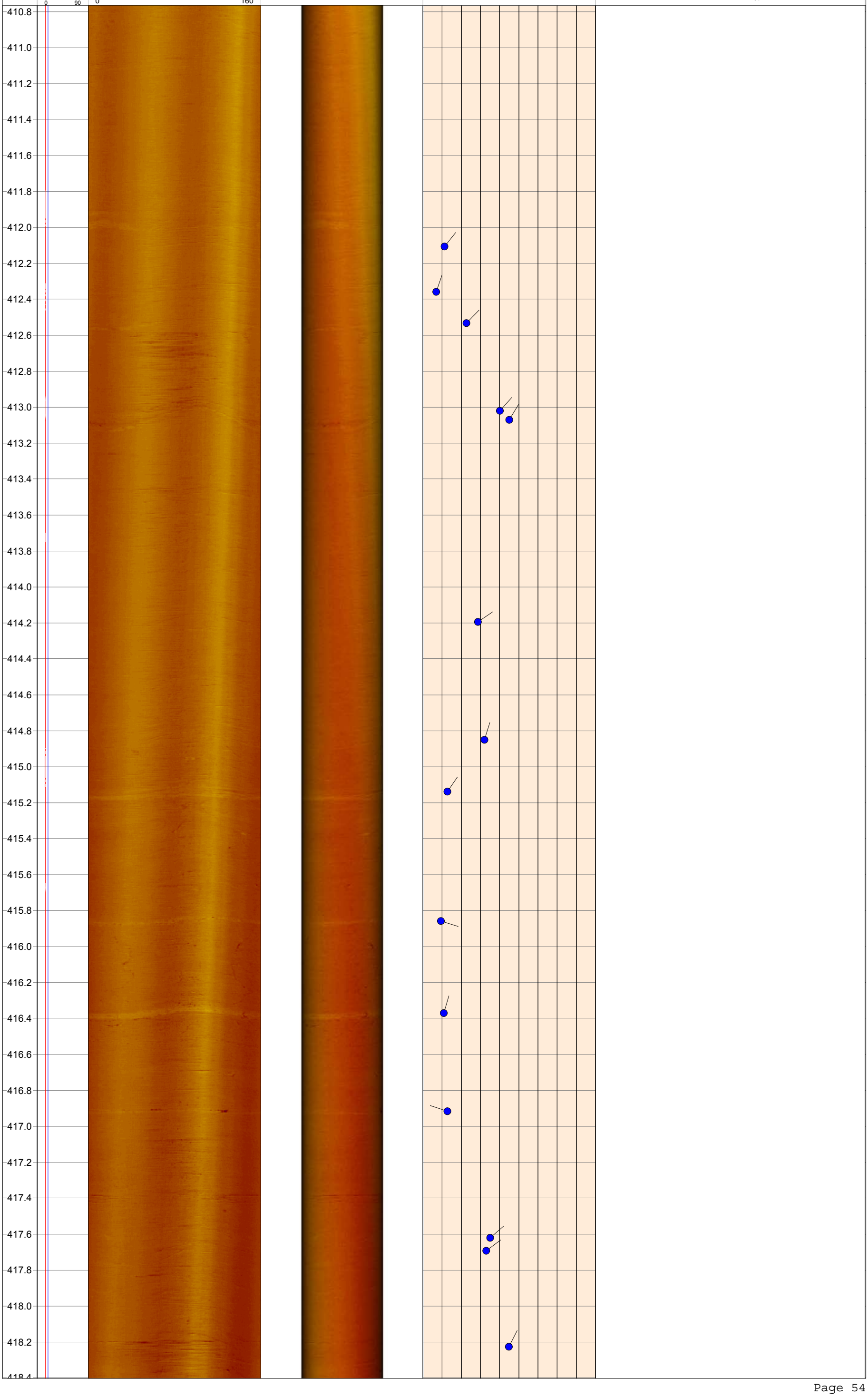
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				

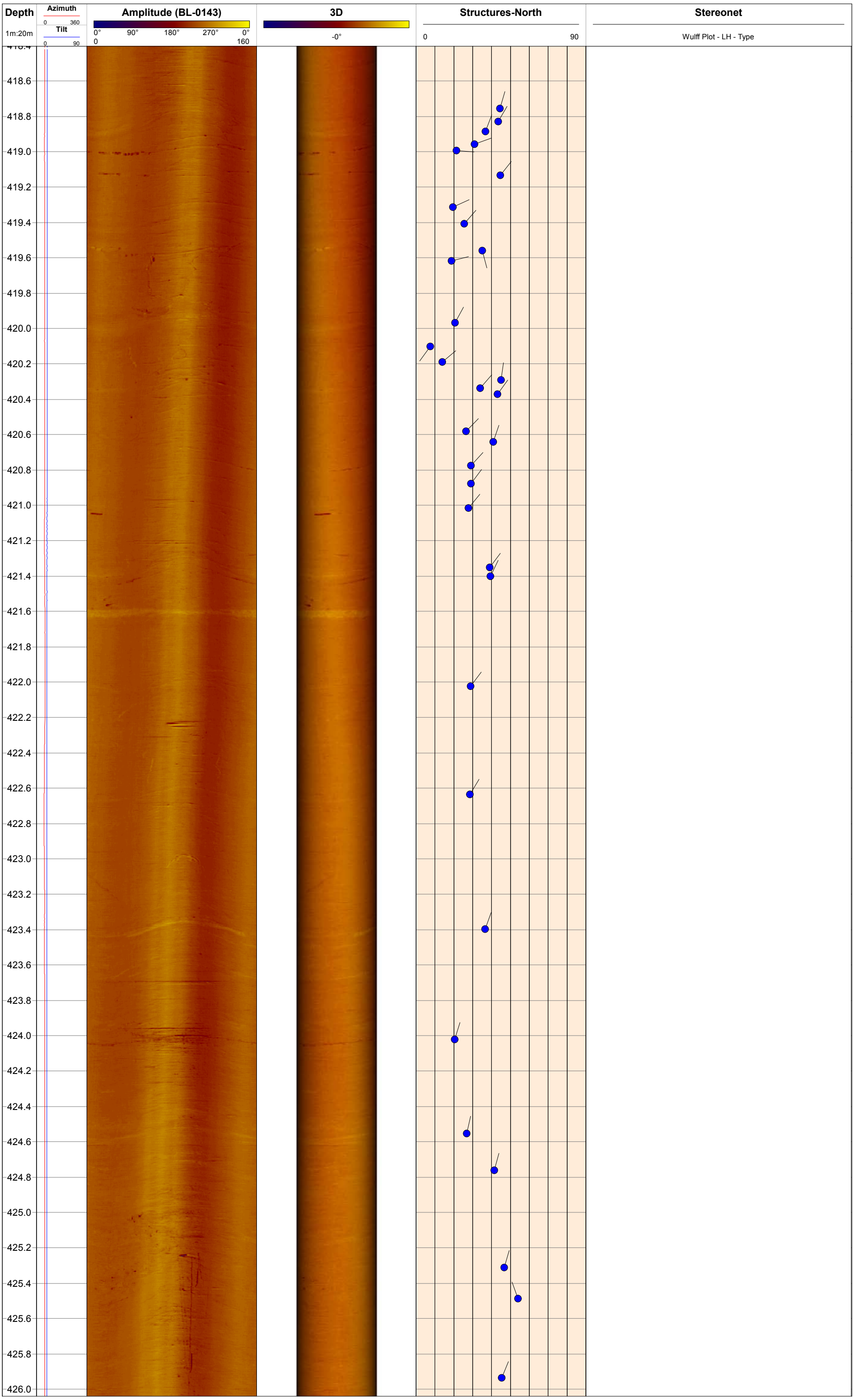


Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				

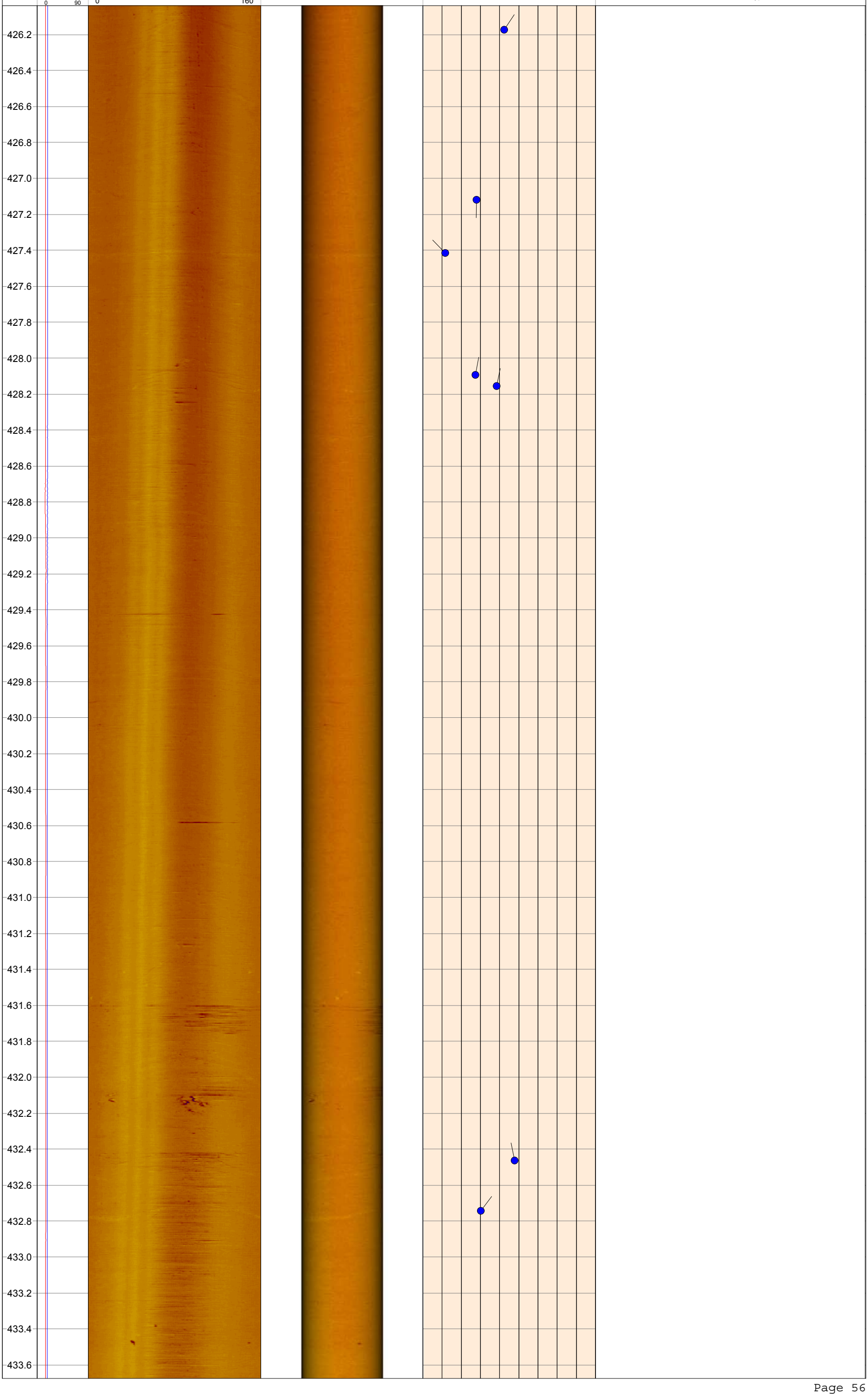


Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360 / Tilt 0 90	0° 90° 180° 270° 0° / 0 160	-0°	0 90	Wulff Plot - LH - Type

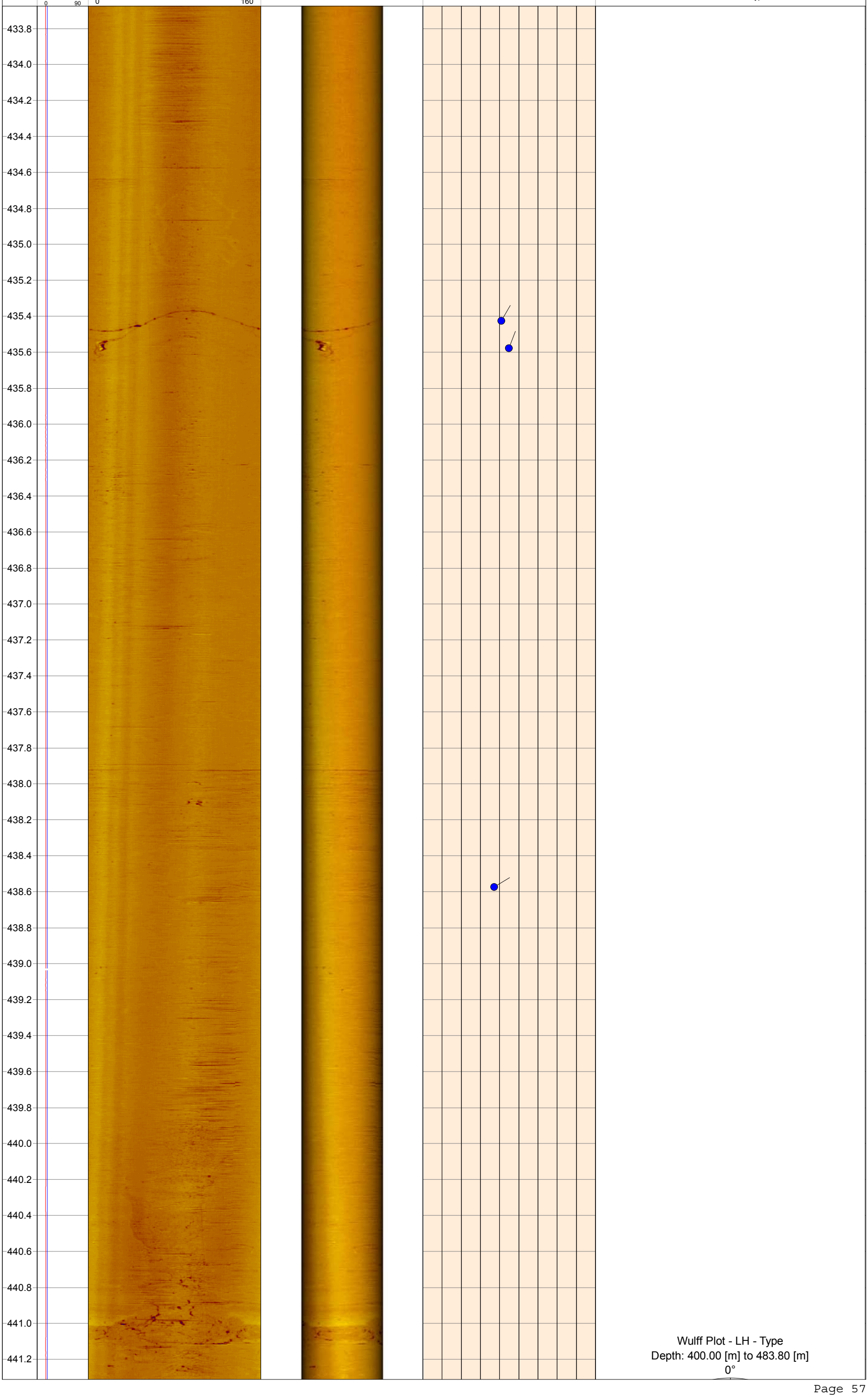



Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0143)
0°
90°
180°
270°
0°
0
160
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
418.4
418.6
418.8
419.0
419.2
419.4
419.6
419.8
420.0
420.2
420.4
420.6
420.8
421.0
421.2
421.4
421.6
421.8
422.0
422.2
422.4
422.6
422.8
423.0
423.2
423.4
423.6
423.8
424.0
424.2
424.4
424.6
424.8
425.0
425.2
425.4
425.6
425.8
426.0

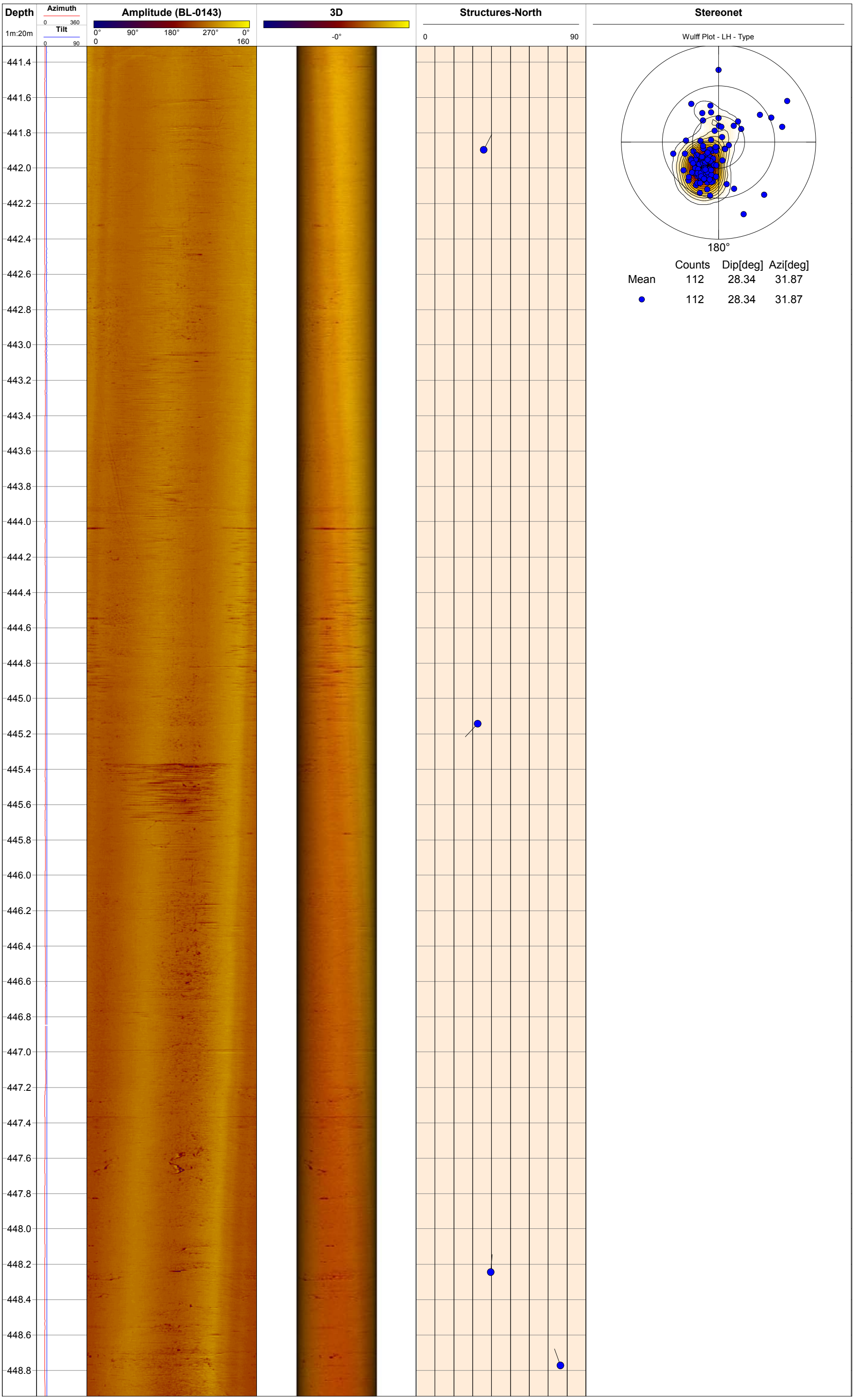
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



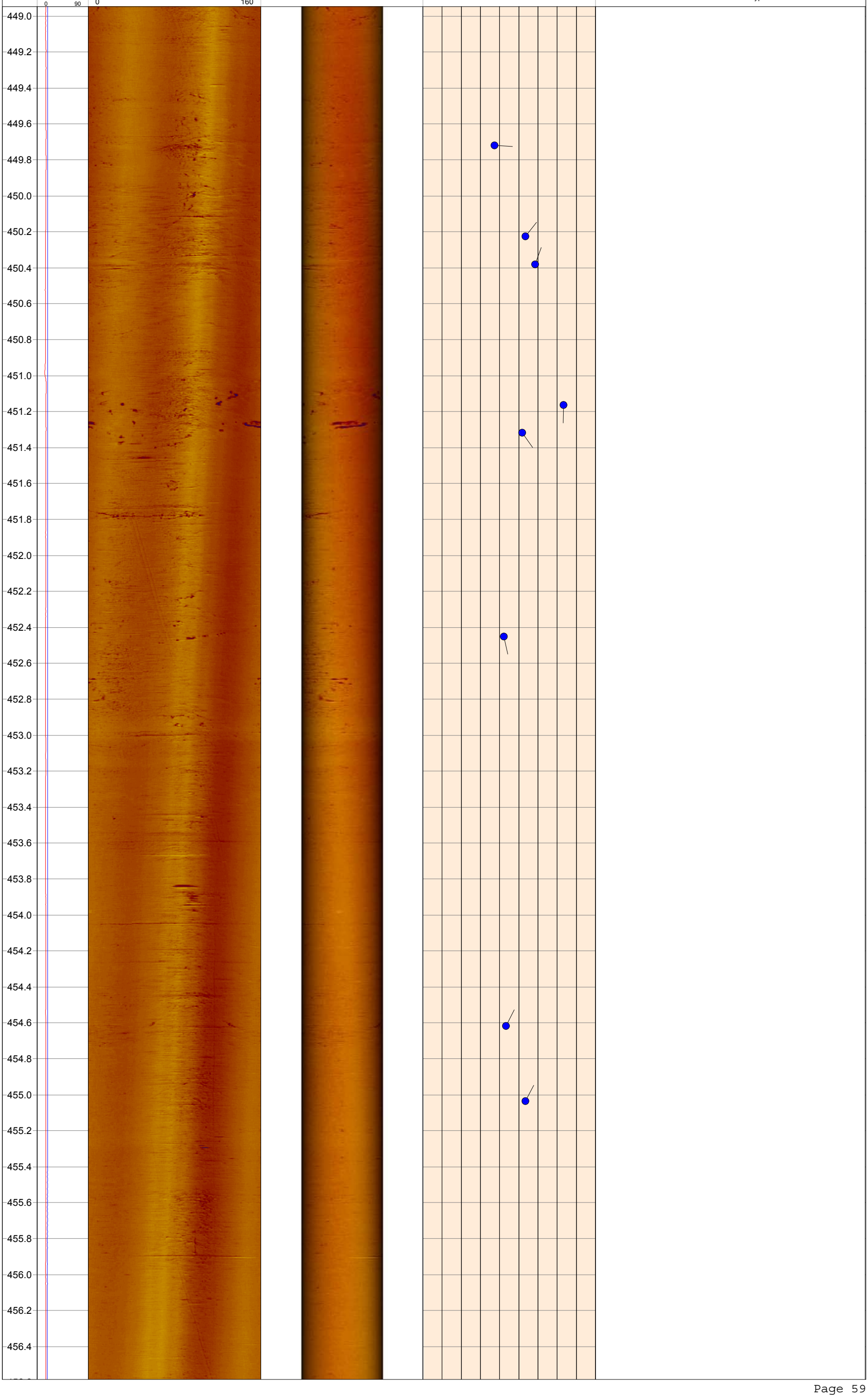
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



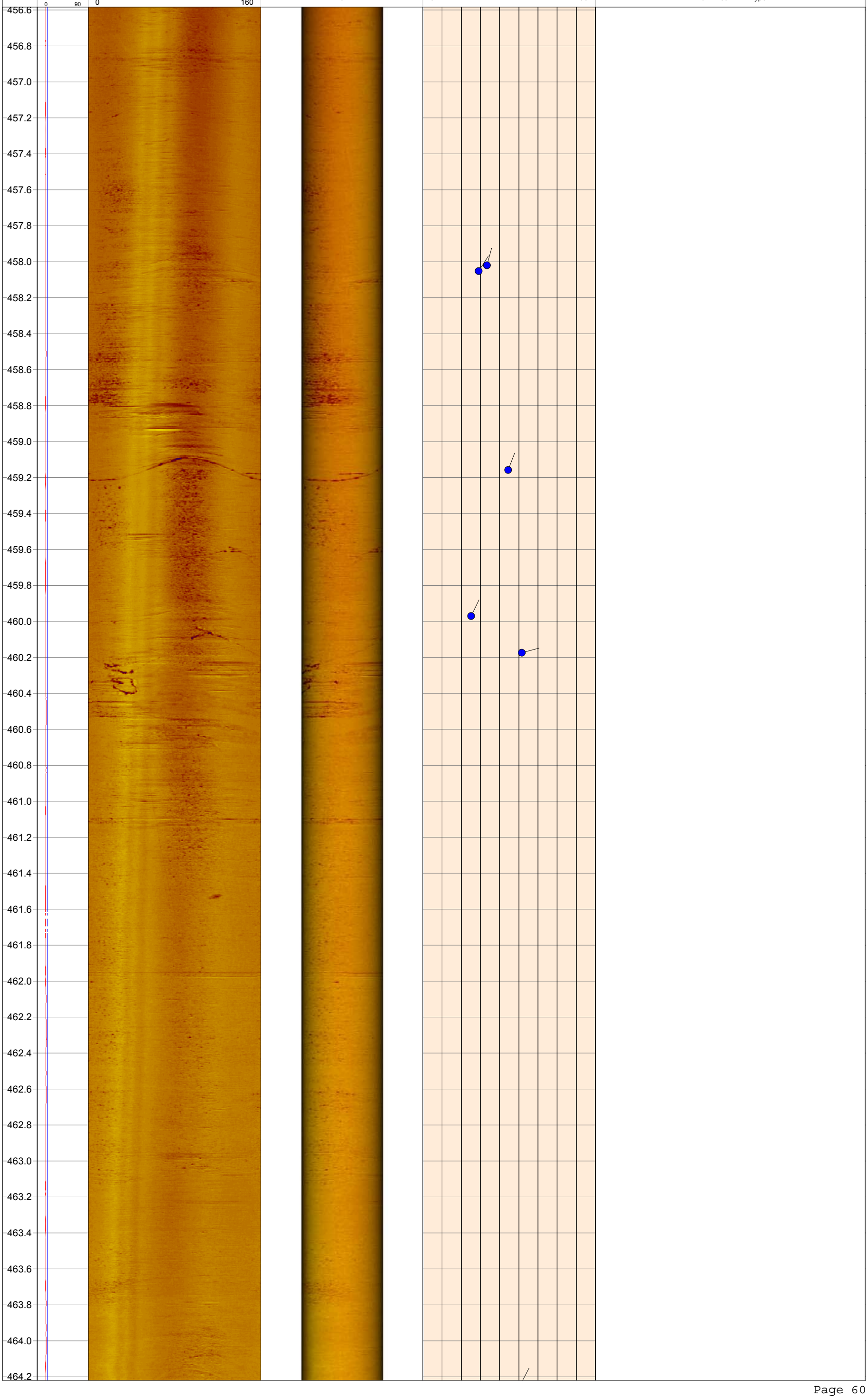
Wulff Plot - LH - Type
Depth: 400.00 [m] to 483.80 [m]
0°


Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0143)
0°
90°
180°
270°
0°
0
160
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
180°
Counts
Dip[deg]
Azi[deg]
Mean
112
28.34
31.87
112
28.34
31.87
441.4
441.6
441.8
442.0
442.2
442.4
442.6
442.8
443.0
443.2
443.4
443.6
443.8
444.0
444.2
444.4
444.6
444.8
445.0
445.2
445.4
445.6
445.8
446.0
446.2
446.4
446.6
446.8
447.0
447.2
447.4
447.6
447.8
448.0
448.2
448.4
448.6
448.8

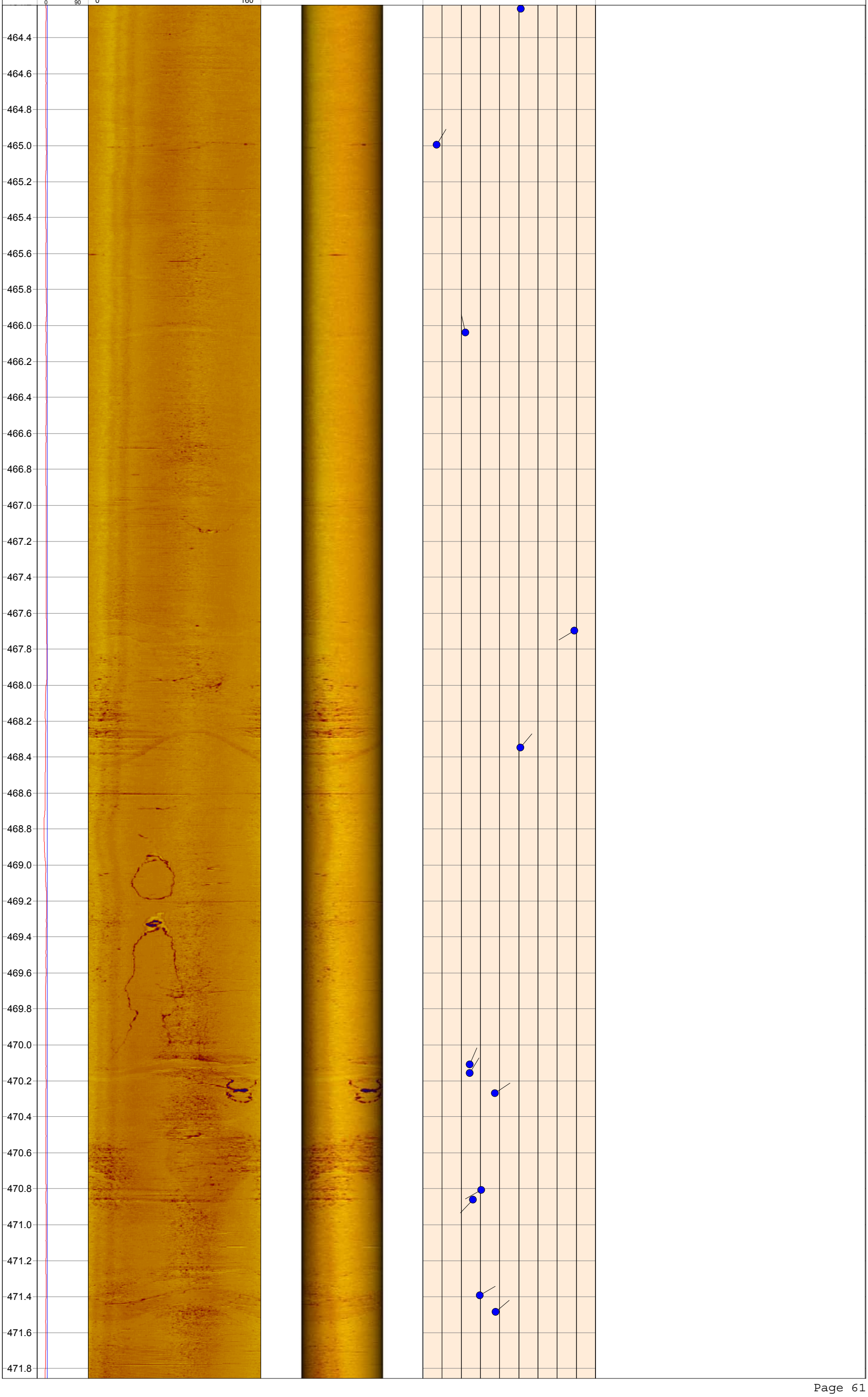
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				

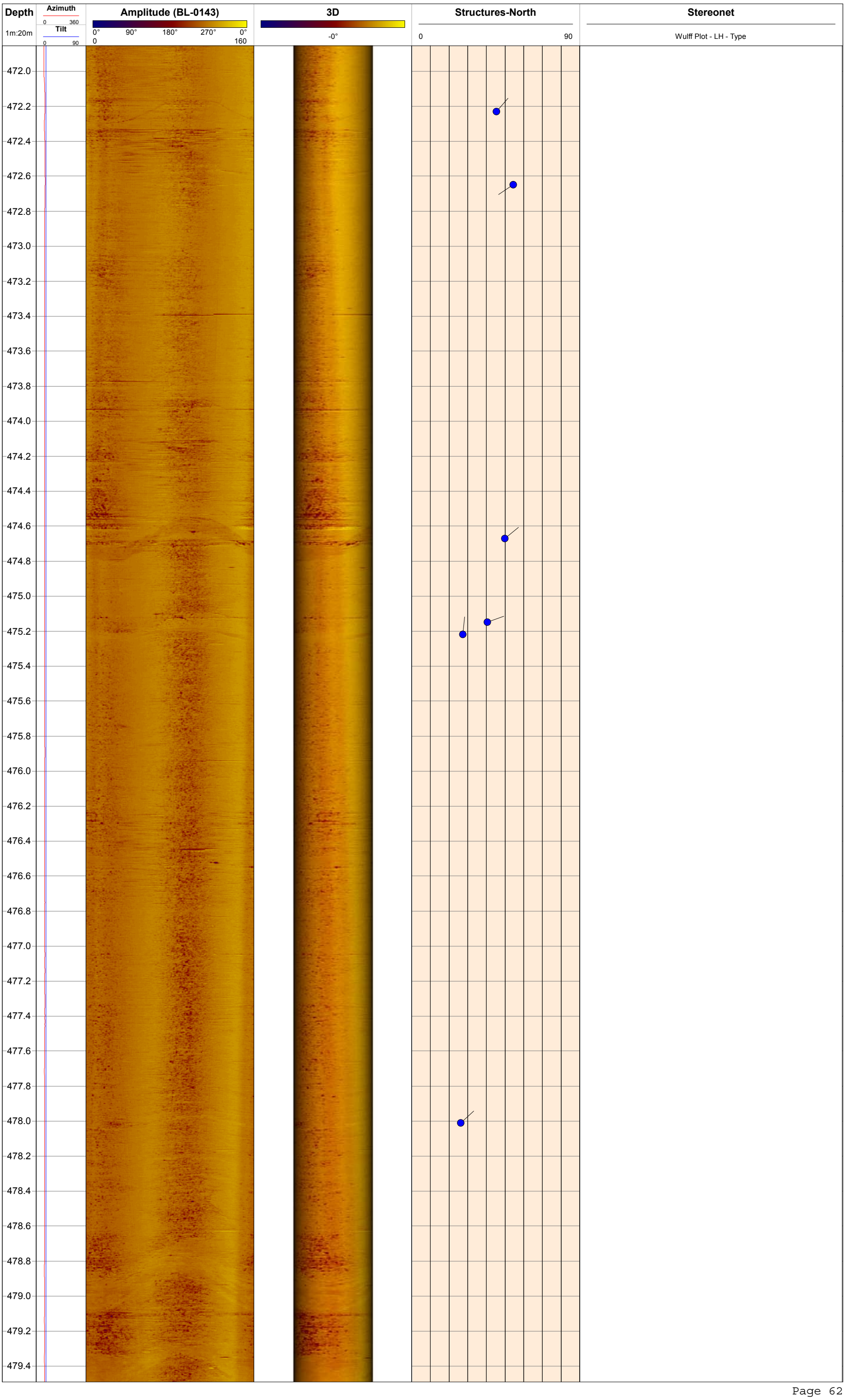


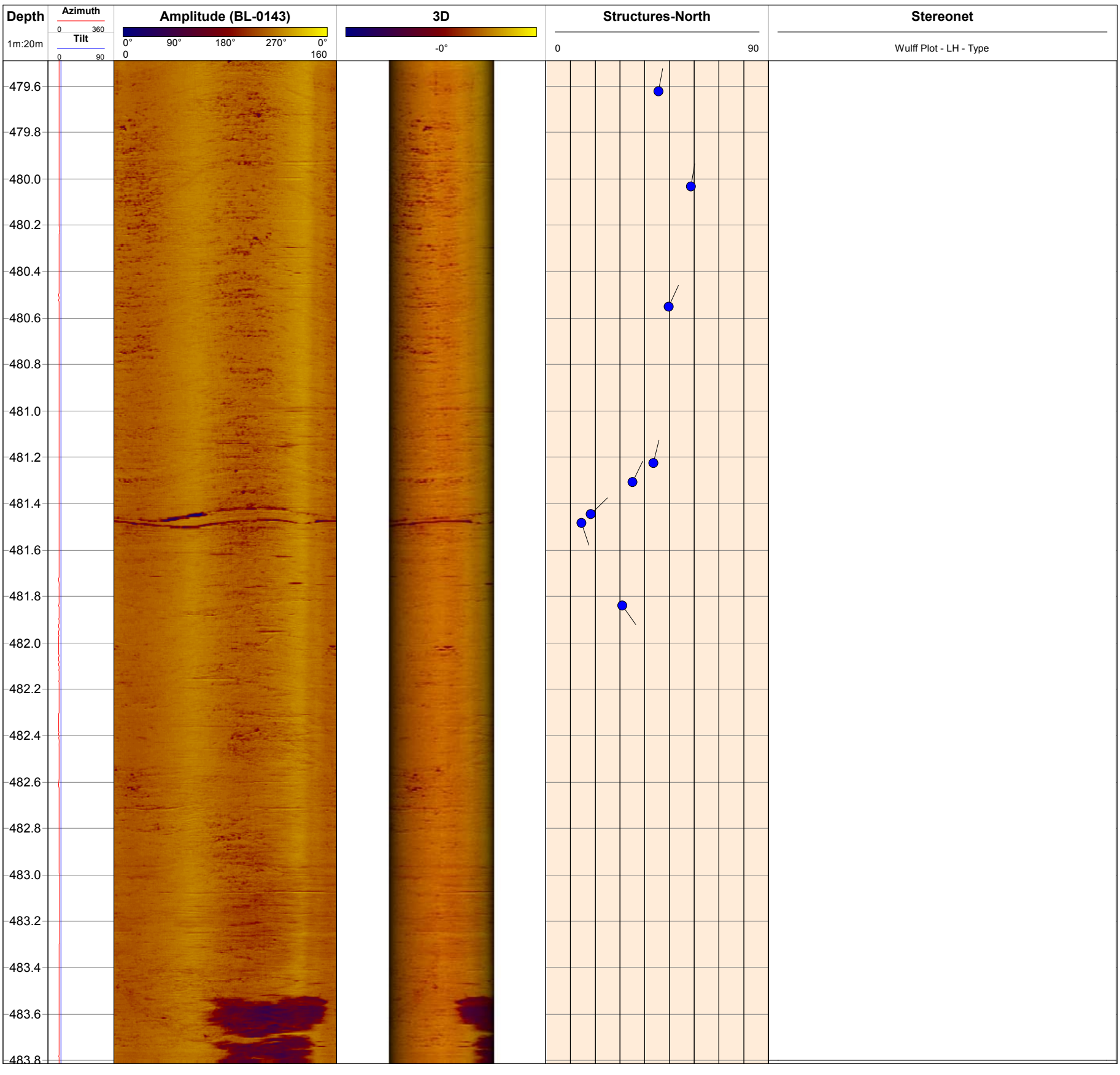
Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				



Depth	Azimuth	Amplitude (BL-0143)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 160			
	0 90				




Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0143)
0°
90°
180°
270°
0°
0
160
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
472.0
472.2
472.4
472.6
472.8
473.0
473.2
473.4
473.6
473.8
474.0
474.2
474.4
474.6
474.8
475.0
475.2
475.4
475.6
475.8
476.0
476.2
476.4
476.6
476.8
477.0
477.2
477.4
477.6
477.8
478.0
478.2
478.4
478.6
478.8
479.0
479.2
479.4


Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0143)
0°
90°
180°
270°
0°
0
160
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
479.6
479.8
480.0
480.2
480.4
480.6
480.8
481.0
481.2
481.4
481.6
481.8
482.0
482.2
482.4
482.6
482.8
483.0
483.2
483.4
483.6
483.8

ACOUSTIC TELEVIEWER LOG

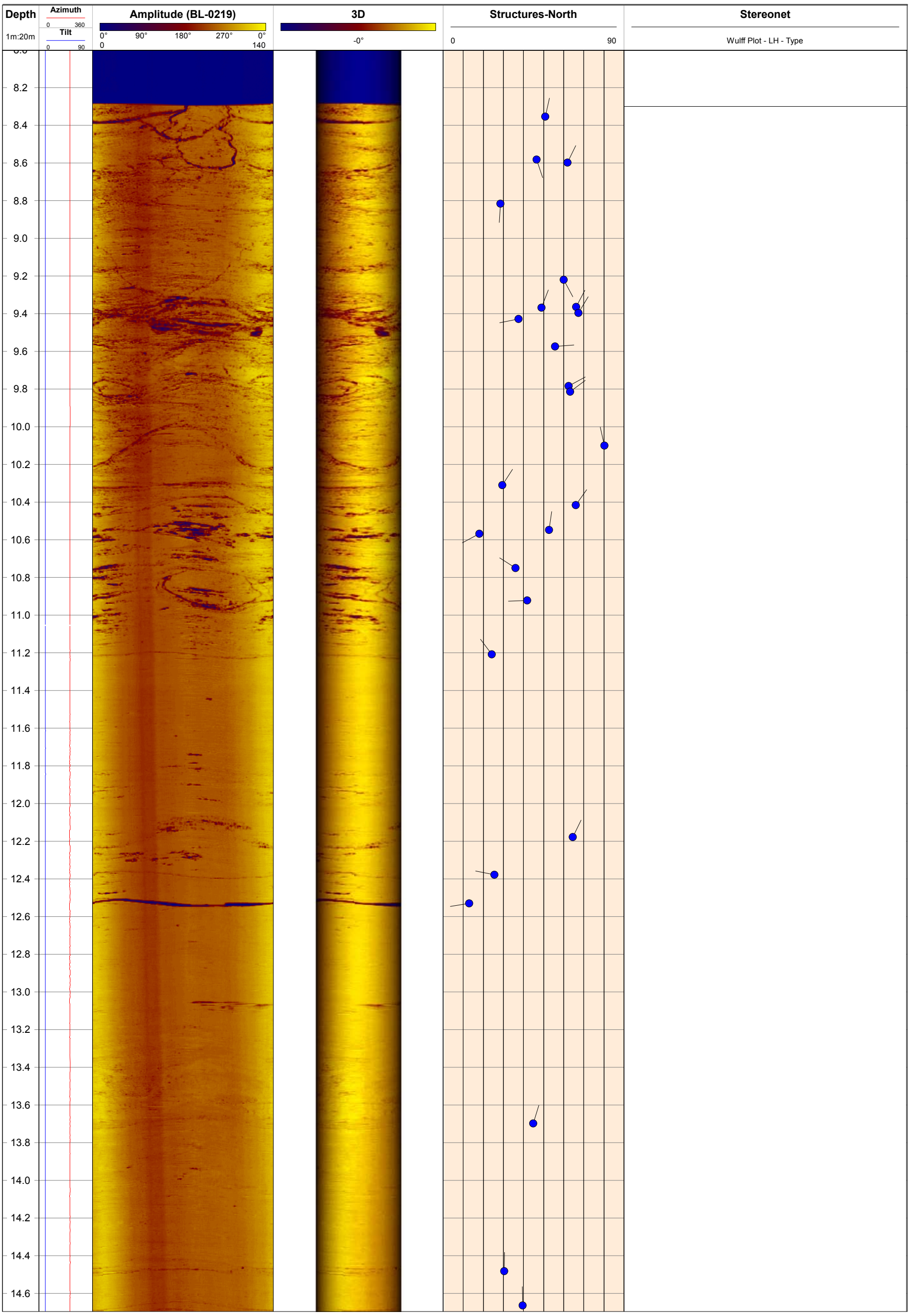
Fracflow Consultant Inc.
Environmental, Hydrogeological and
Geotechnical Engineering Consultants

Project Location:	**Springpole, ON**	***Easting:***	**549618.5**
Borehole ID:	**BL-0219**	***Northing:***	**5694094.9**
Report Date:	**December 2019**	***Bearing at the collar:***	**198**
Logging Date:	**August 19, 2019**	***Plunge at the collar:***	**-80**
Logging Depth (m):	**144.7**	***Borehole Depth (m):***	**155.0**

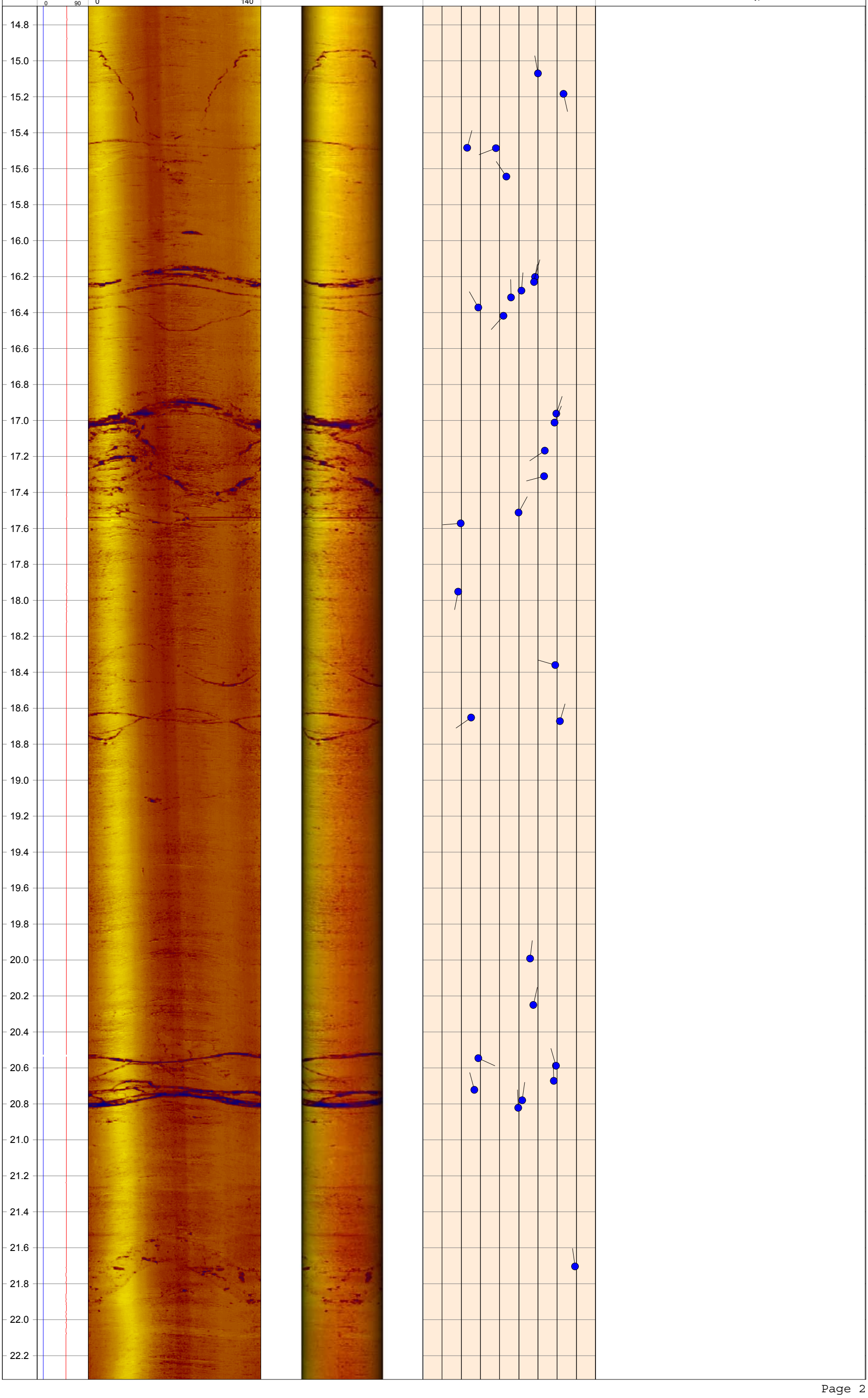
Client: **First Mining Gold / Gold Canyon Resources**

FFC Reference No: **FFC-NL-3134-002**

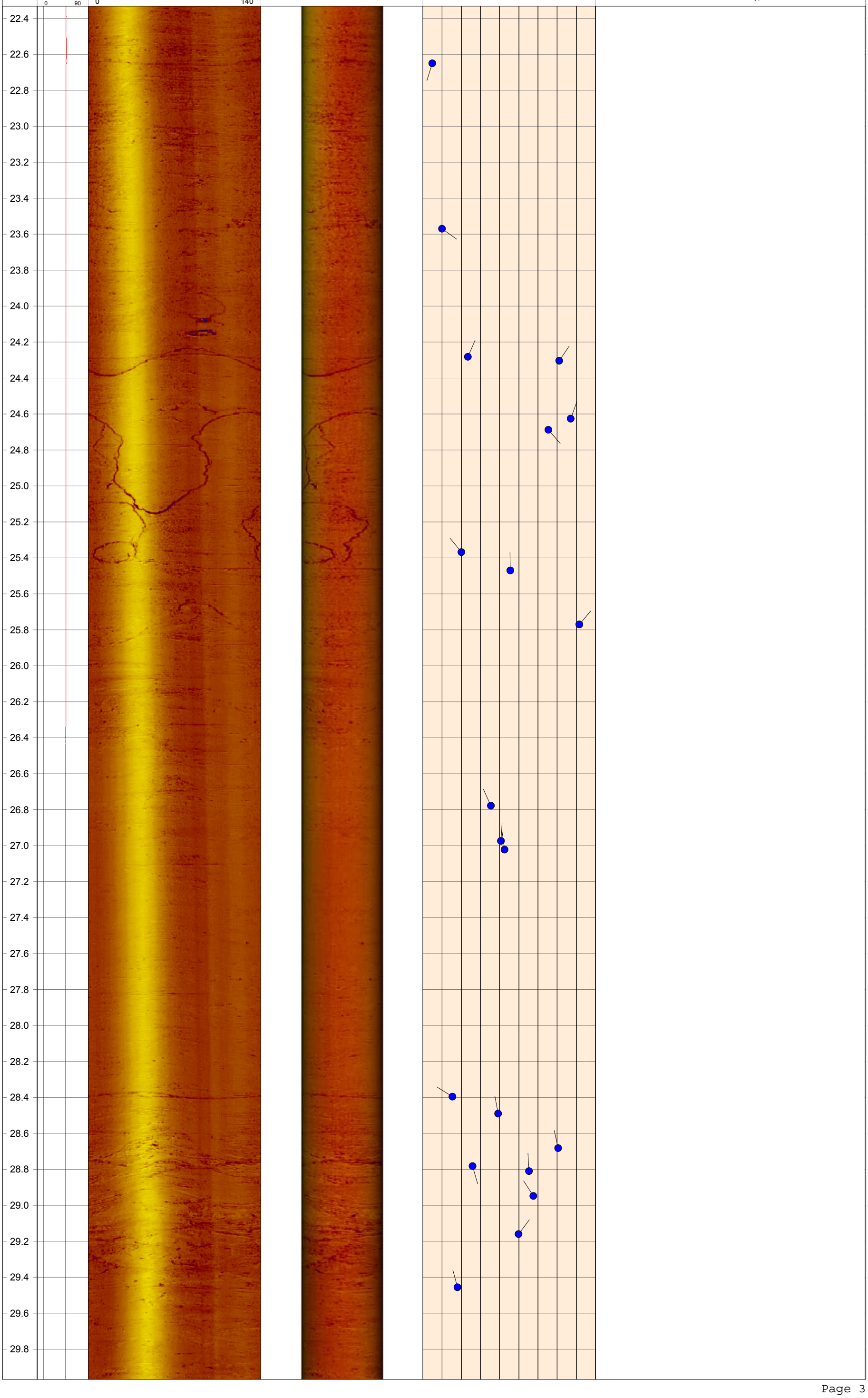
Figure No.: **D13**



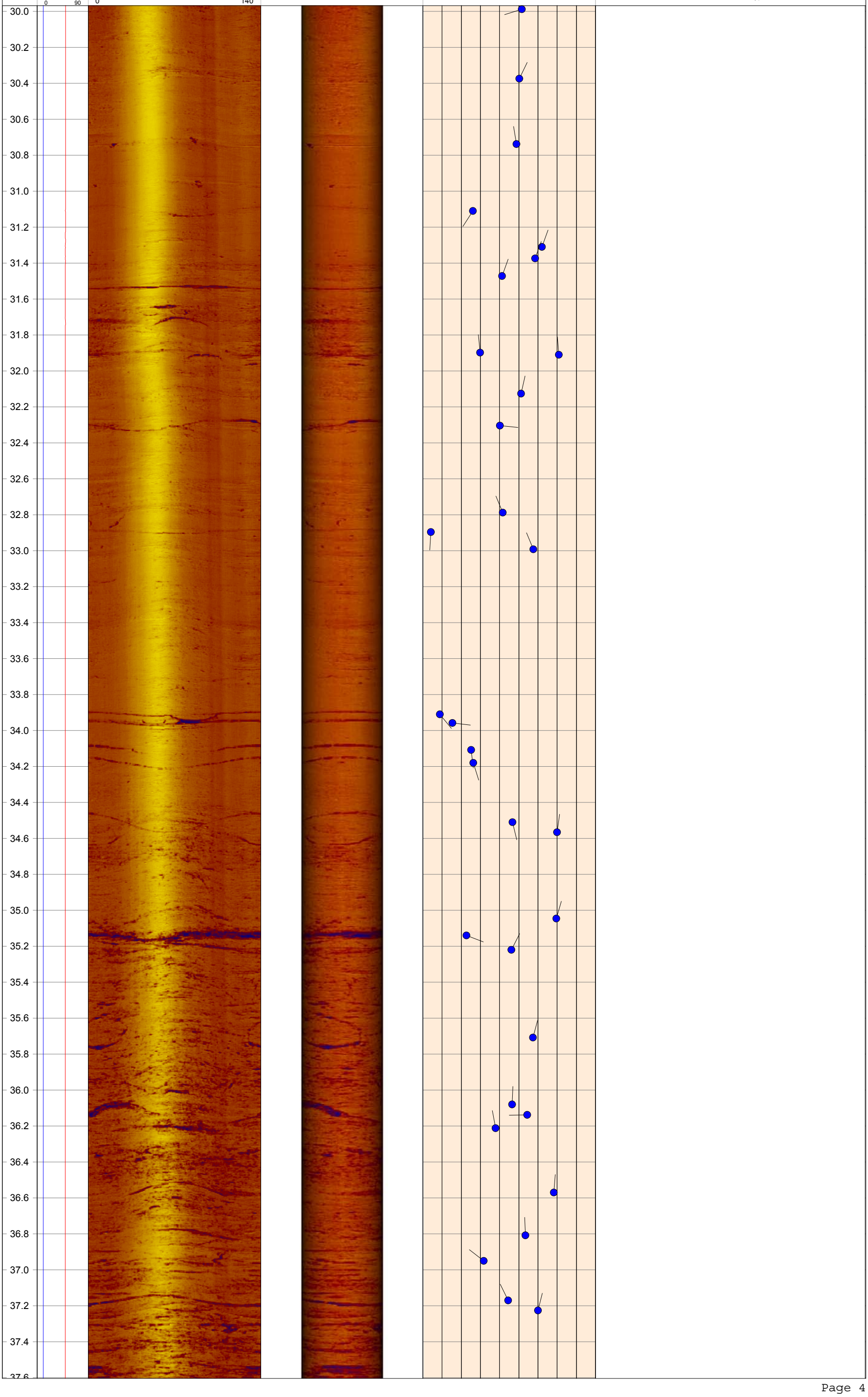
Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



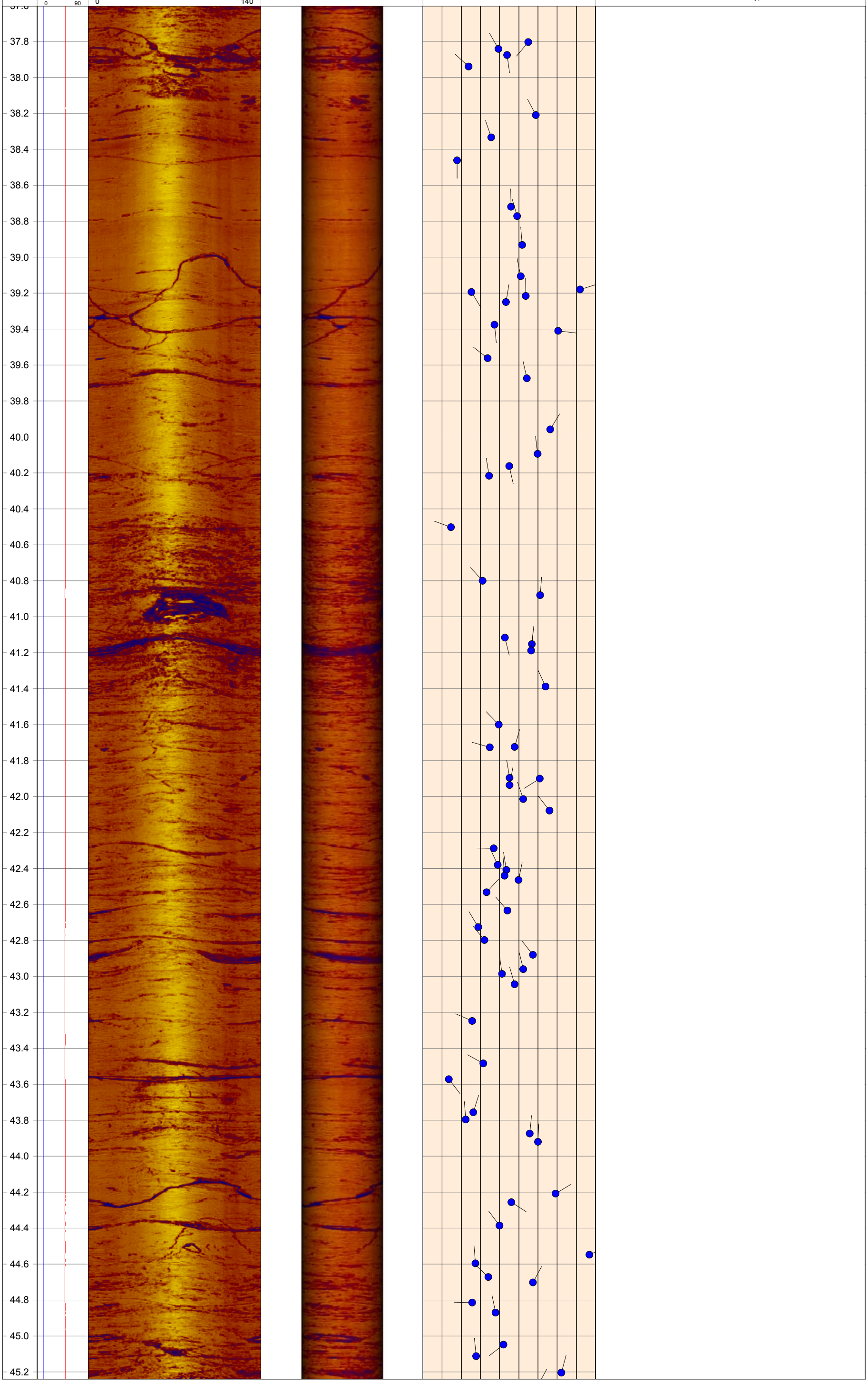
Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



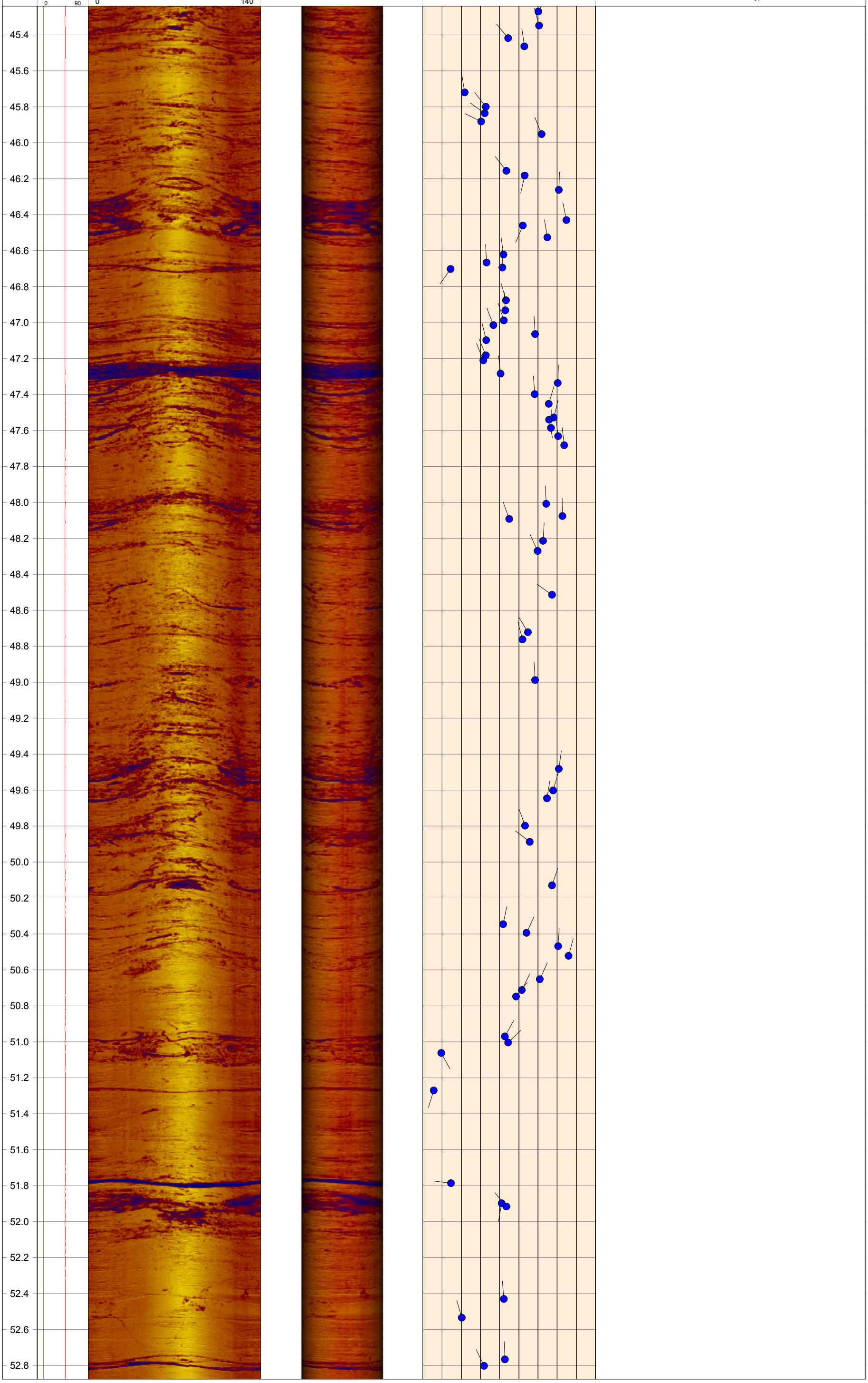
Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



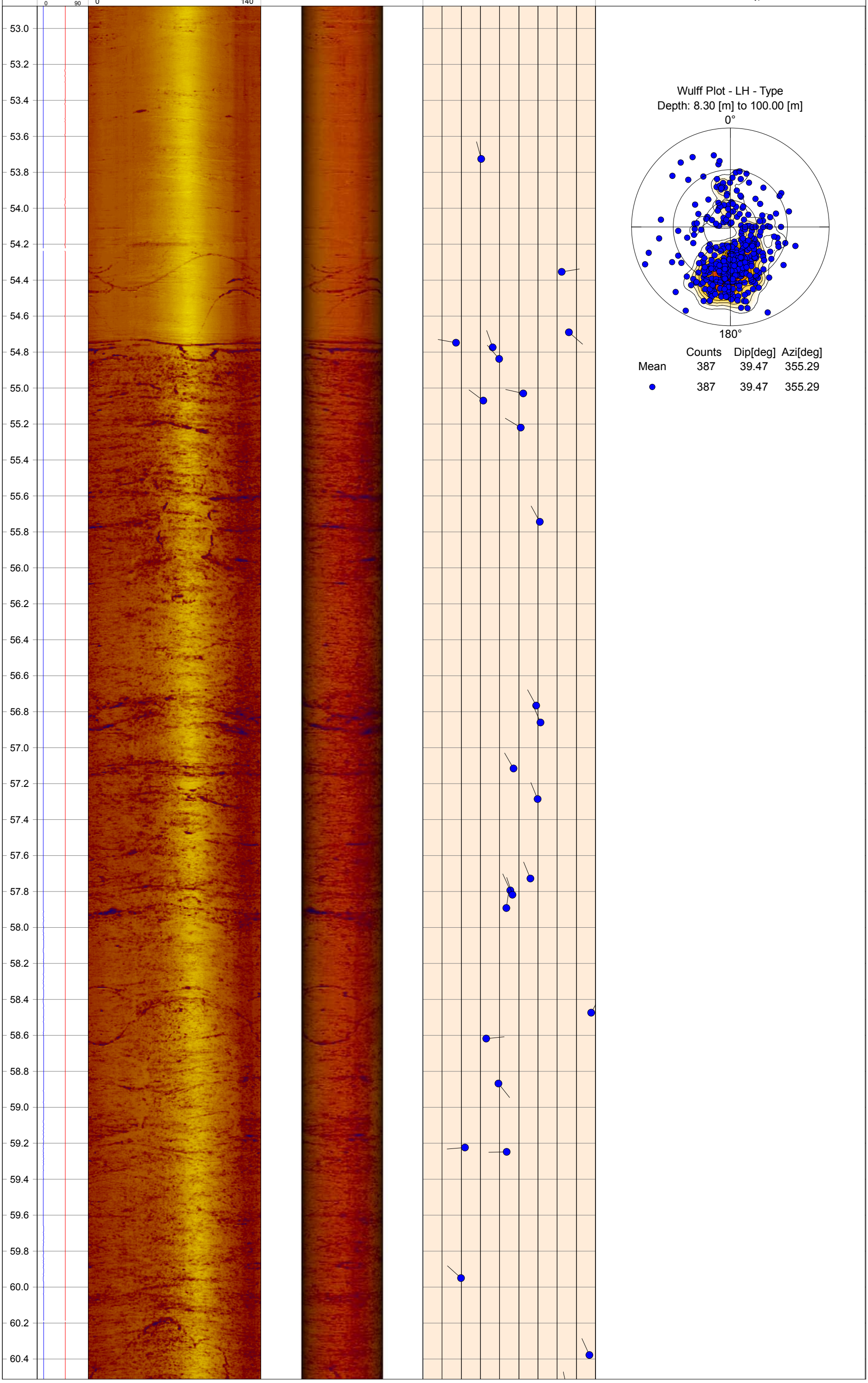
Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



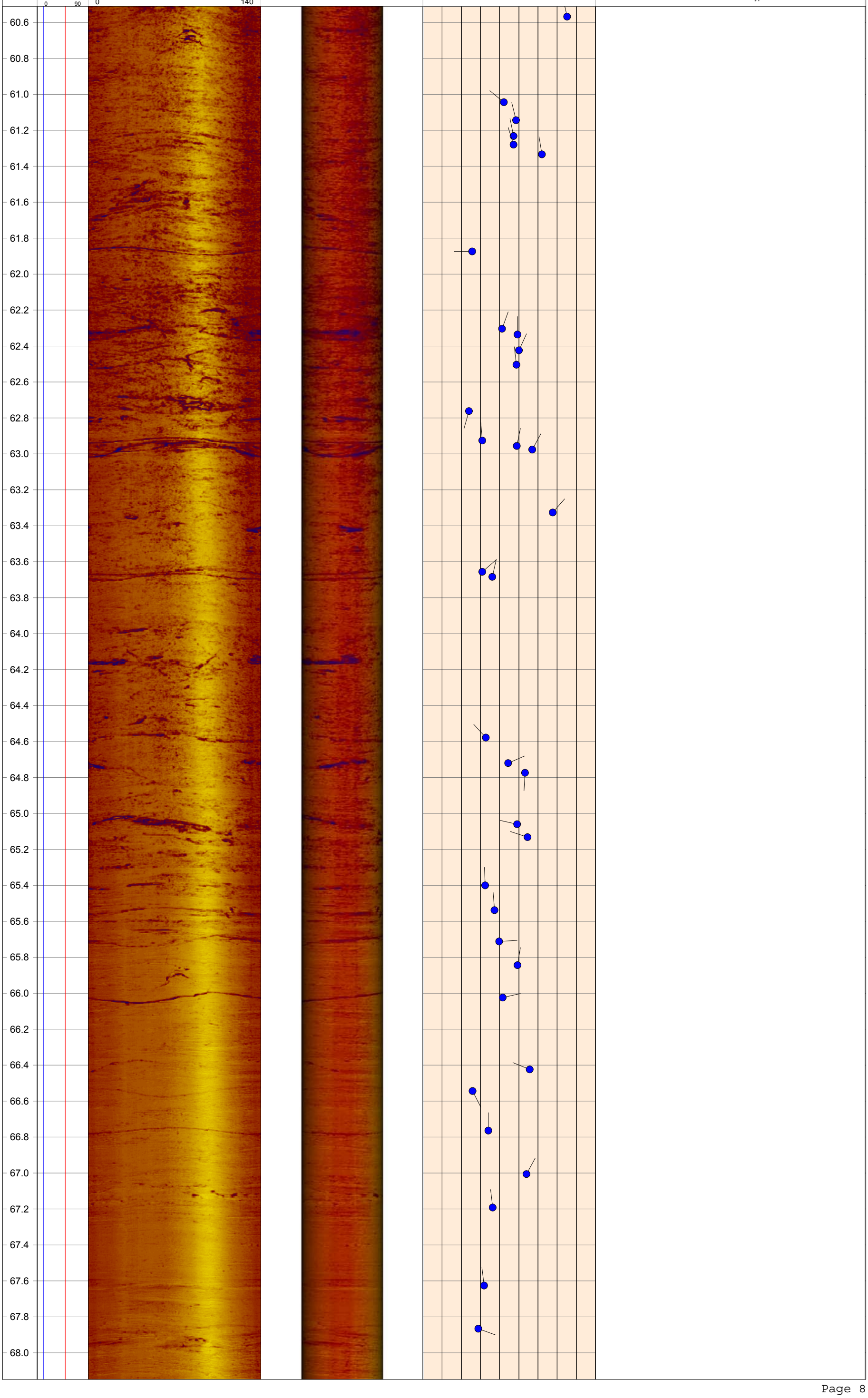
Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



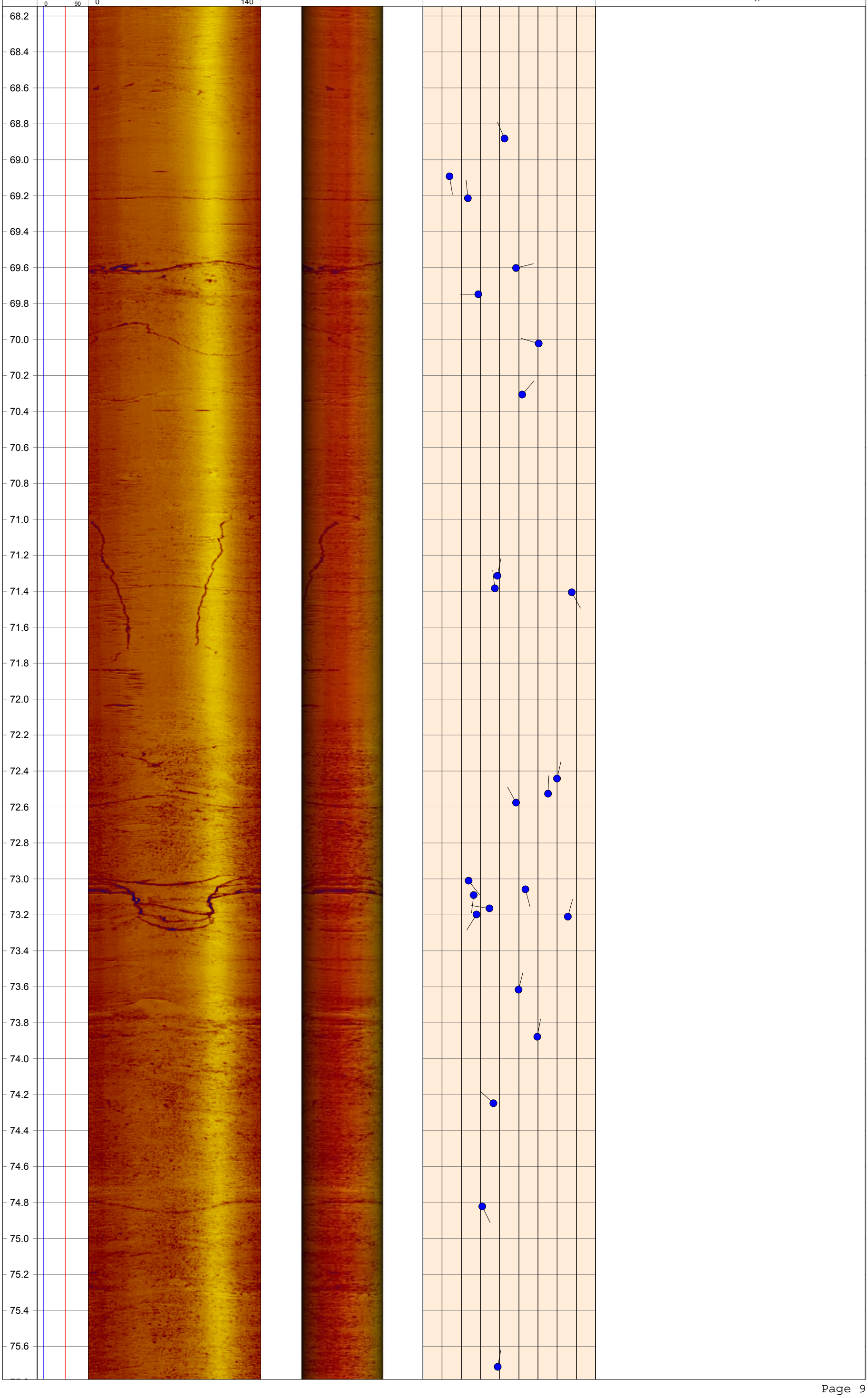
Wulff Plot - LH - Type
Depth: 8.30 [m] to 100.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	387	39.47	355.29
●	387	39.47	355.29

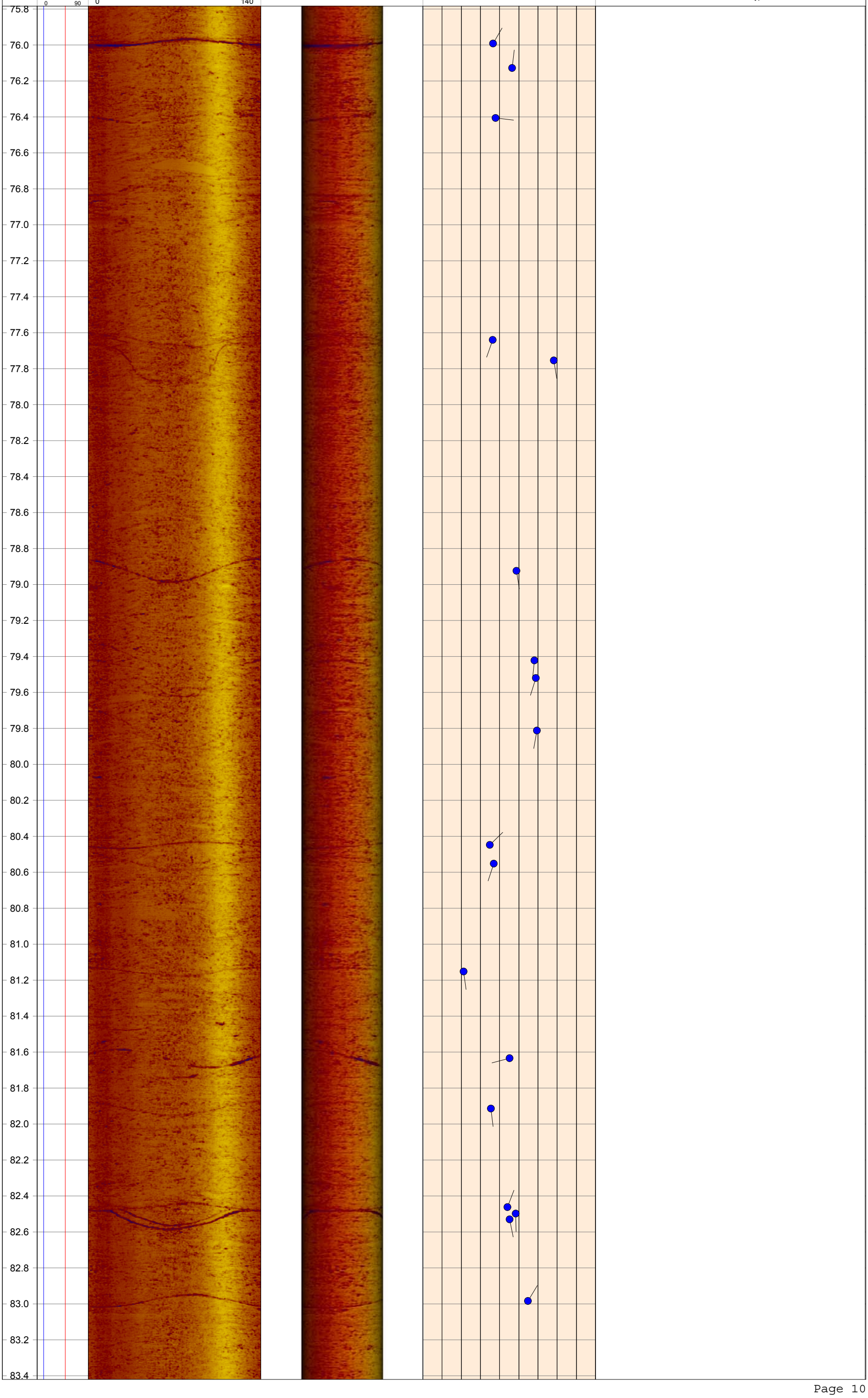
Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



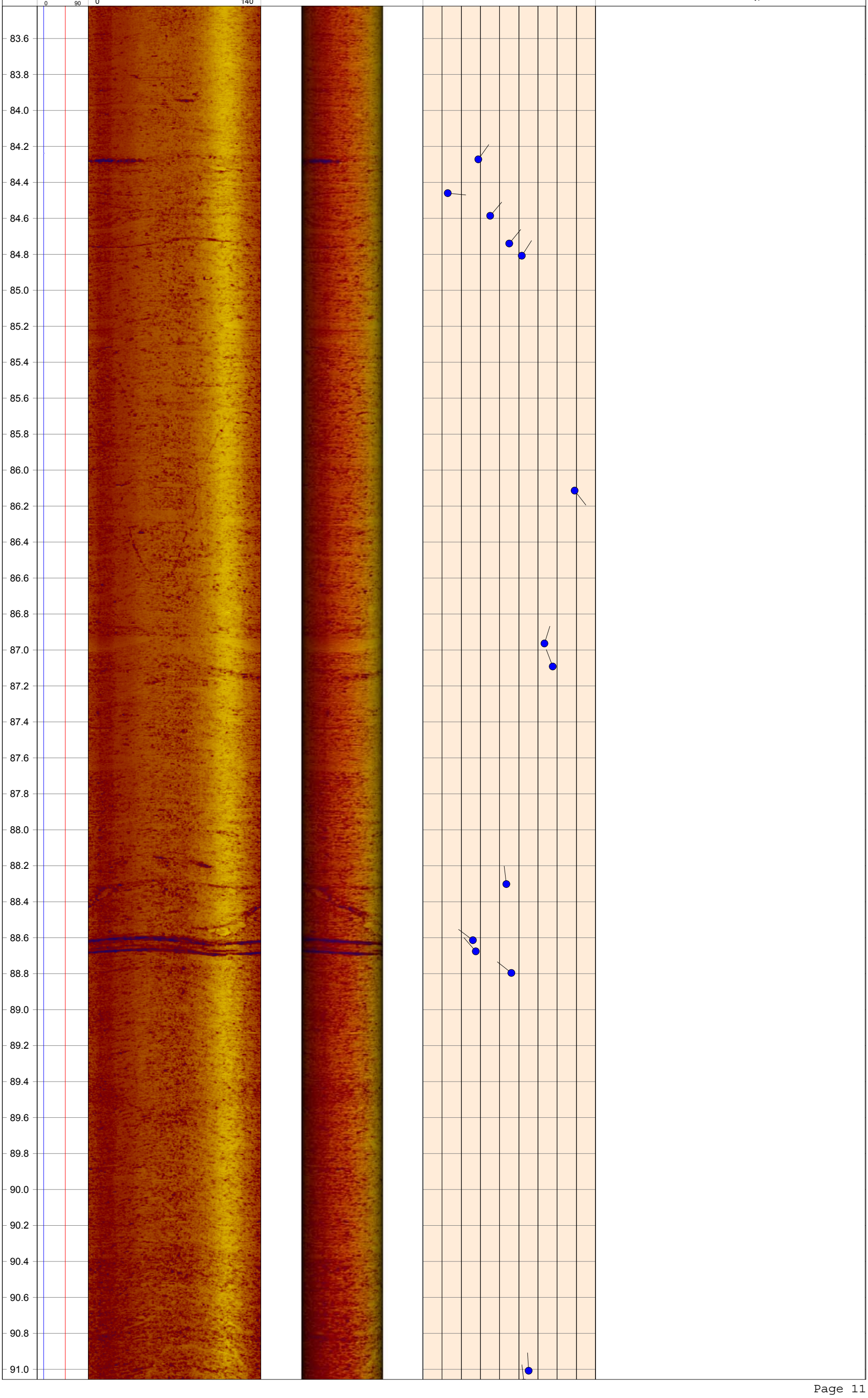
Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



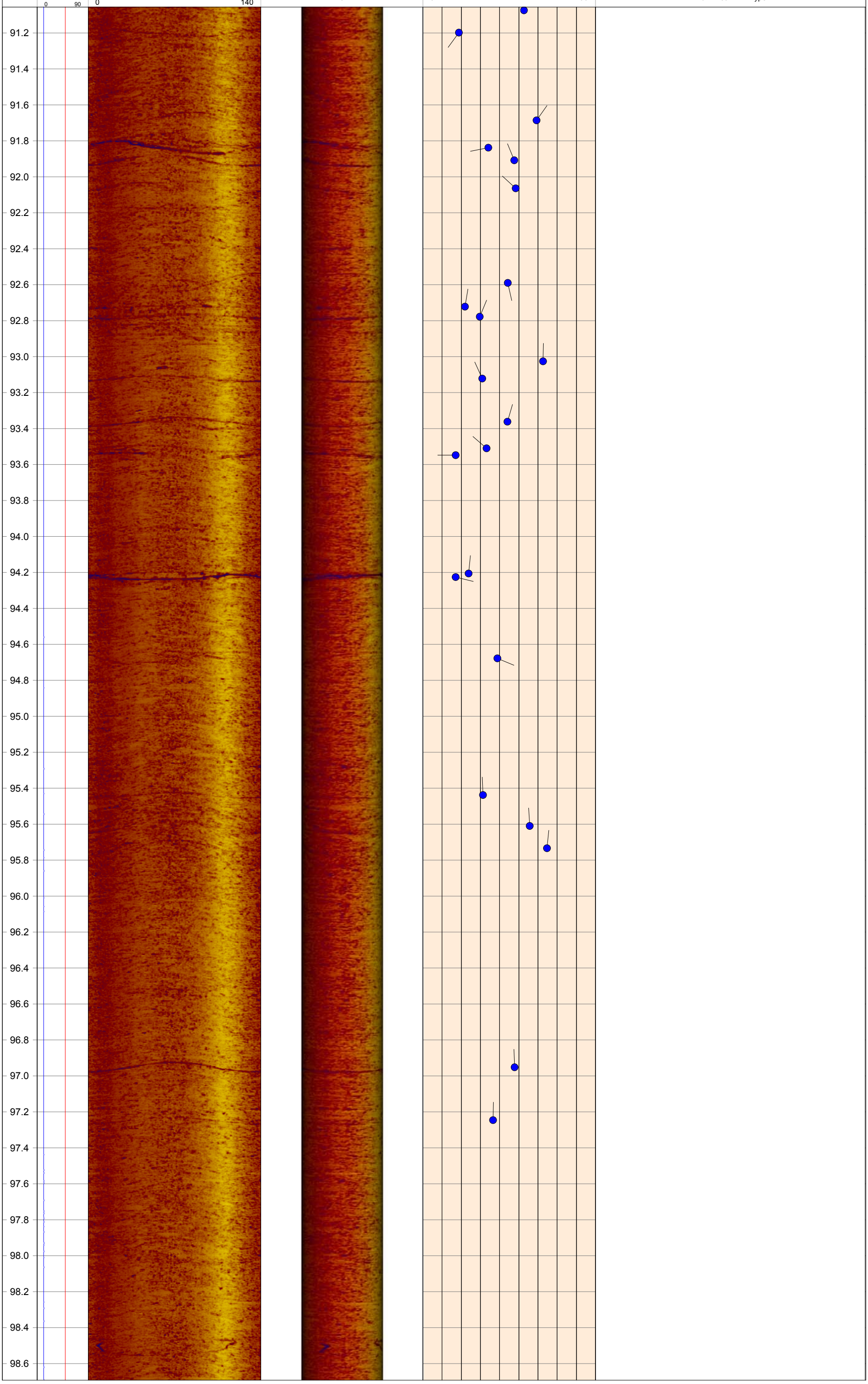
Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



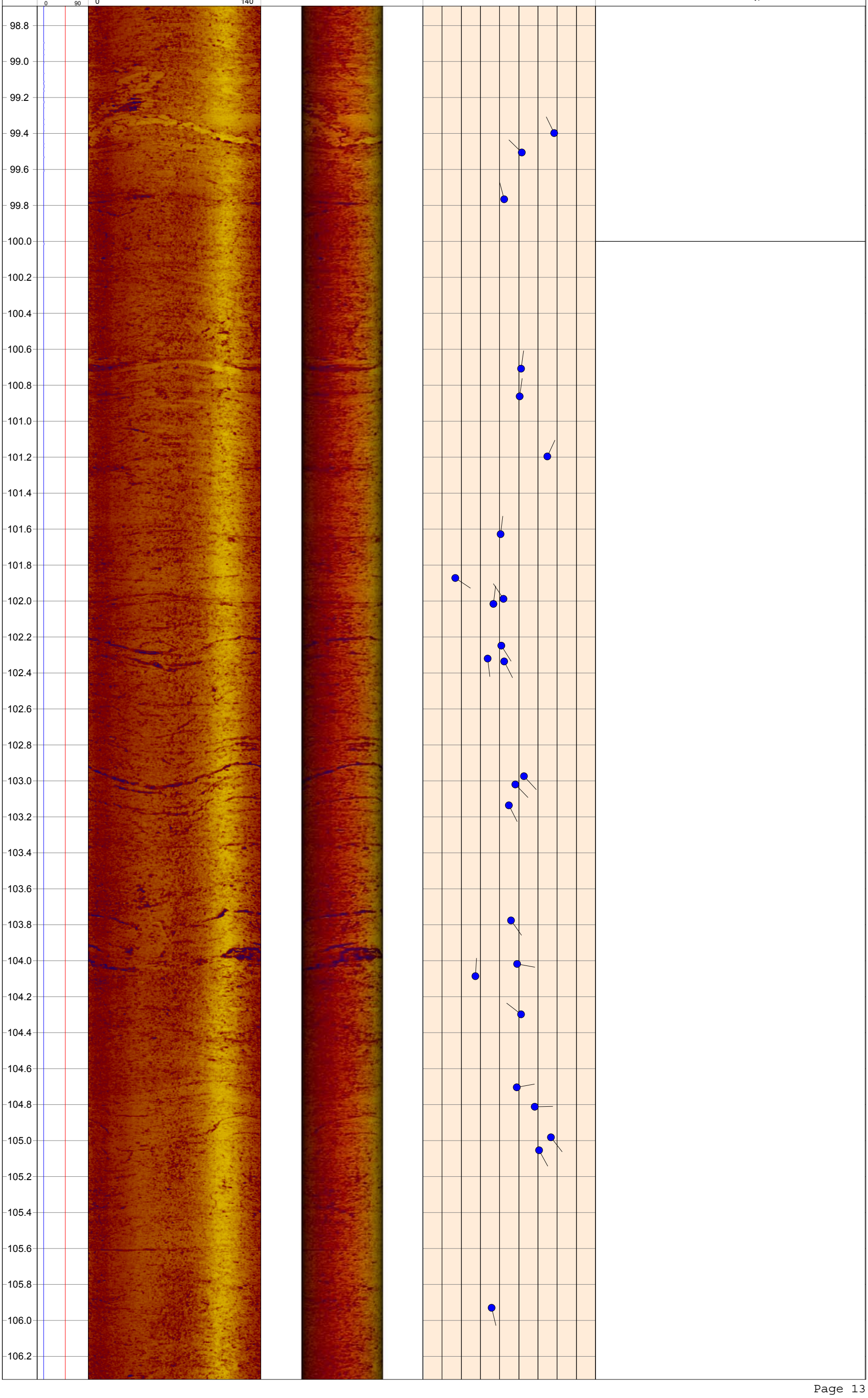
Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



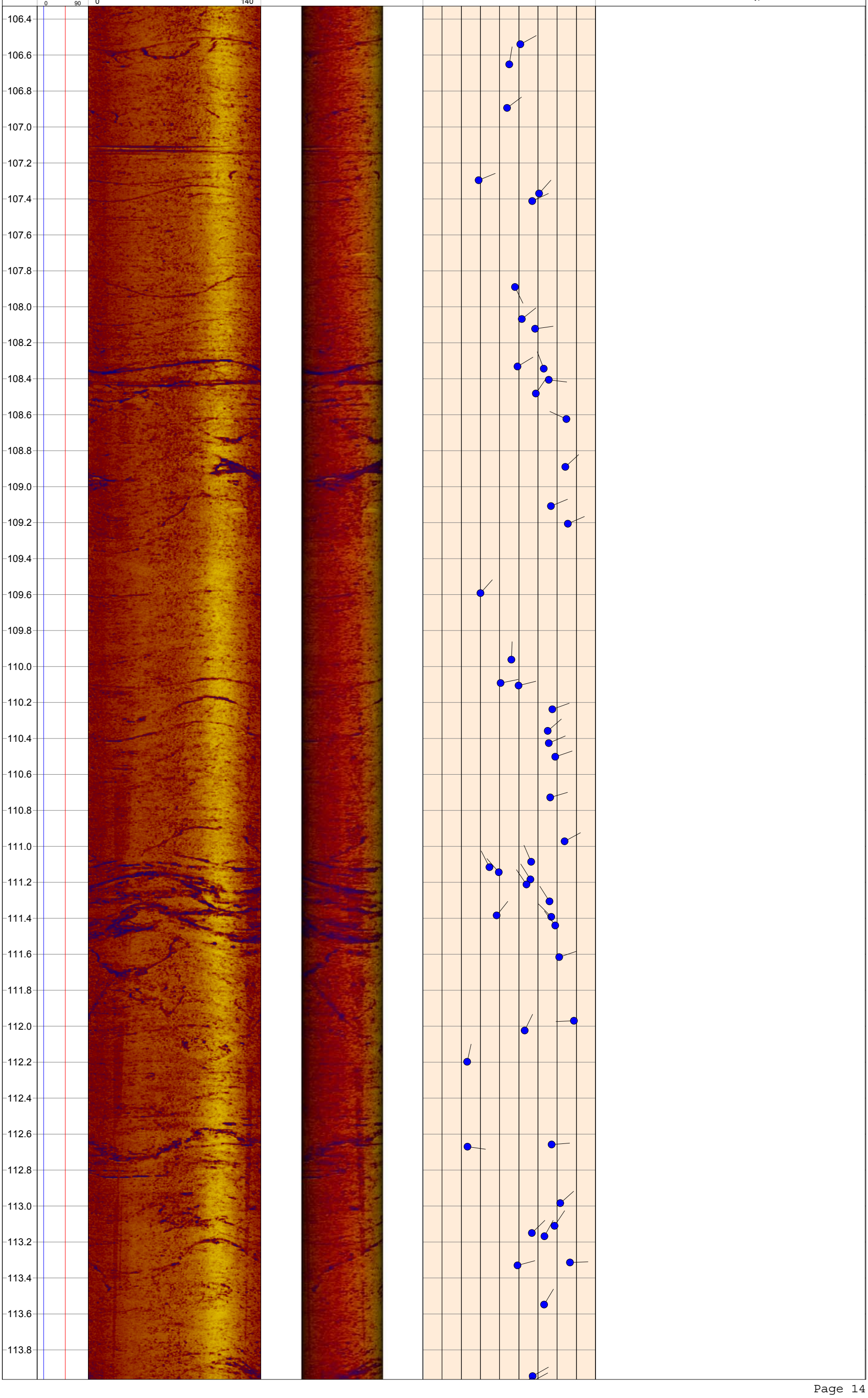
Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



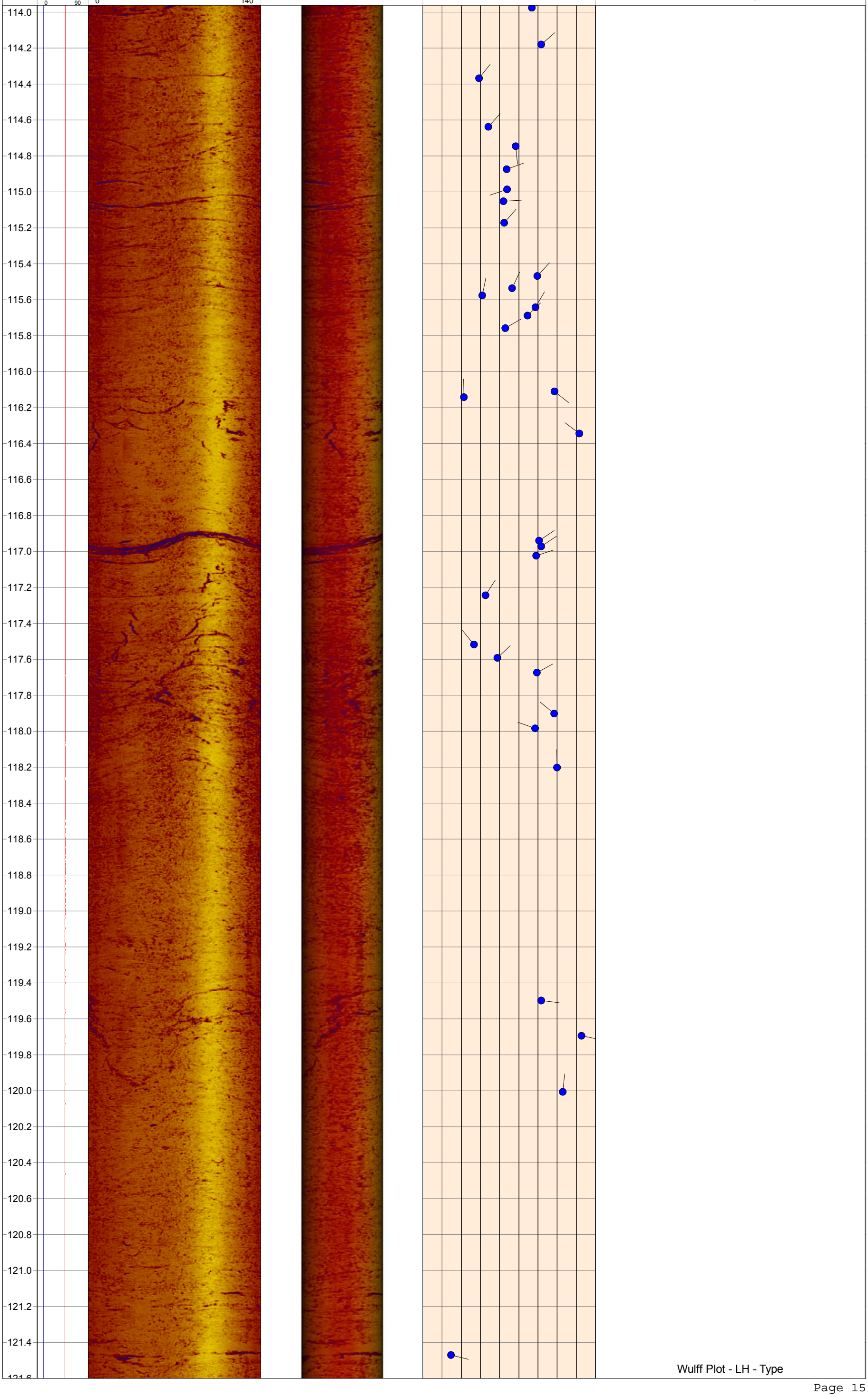
Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



Wulff Plot - LH - Type

Depth
1m:20m

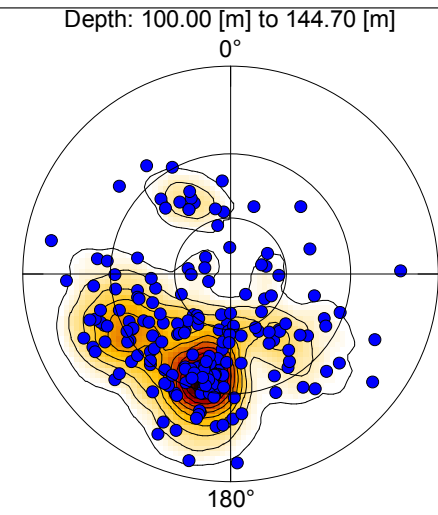
Azimuth
0 360
Tilt
0 90

Amplitude (BL-0219)
0° 90° 180° 270° 0°
0 140

3D
-0°

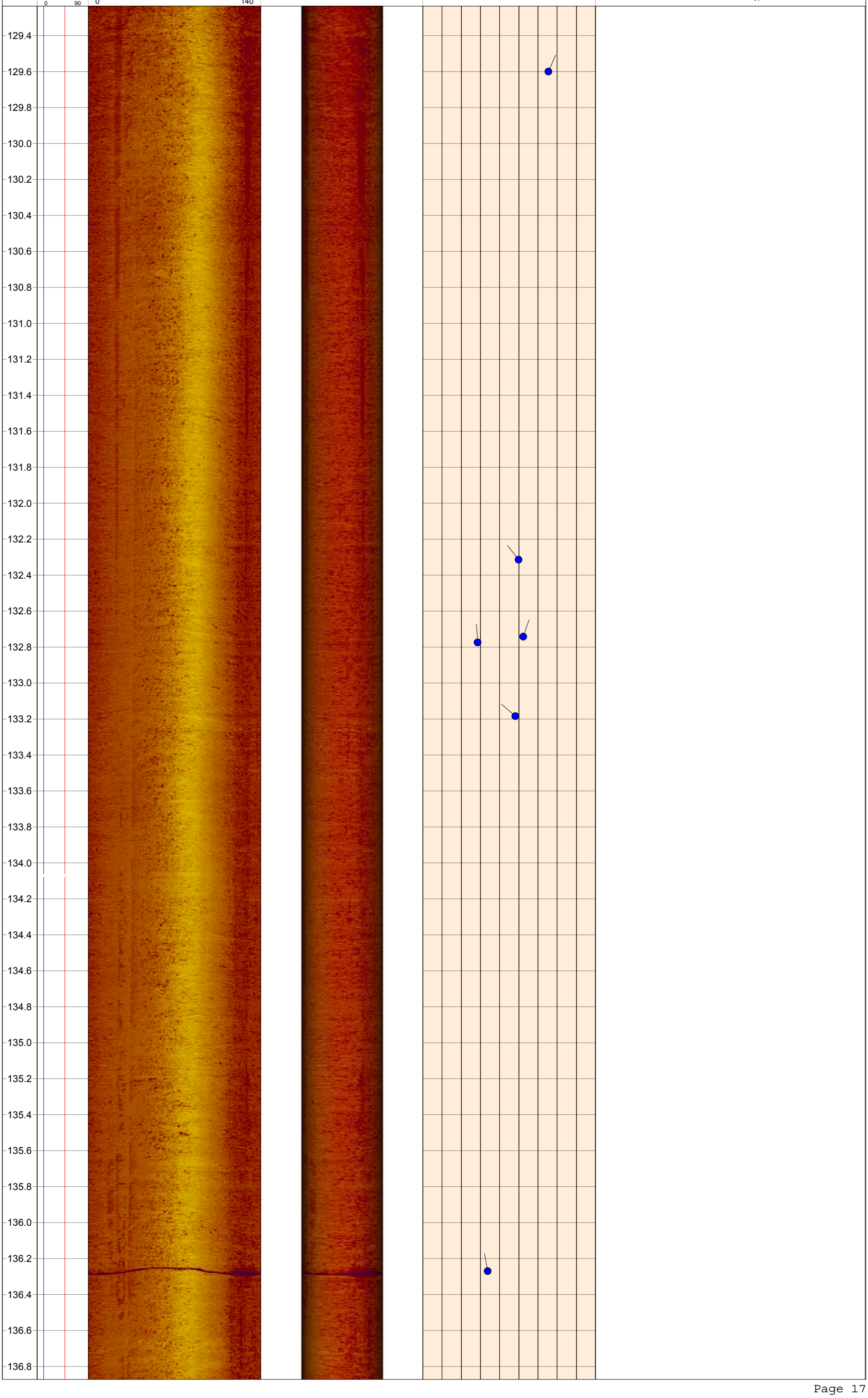
Structures-North
0 90

Stereonet
Wulff Plot - LH - Type

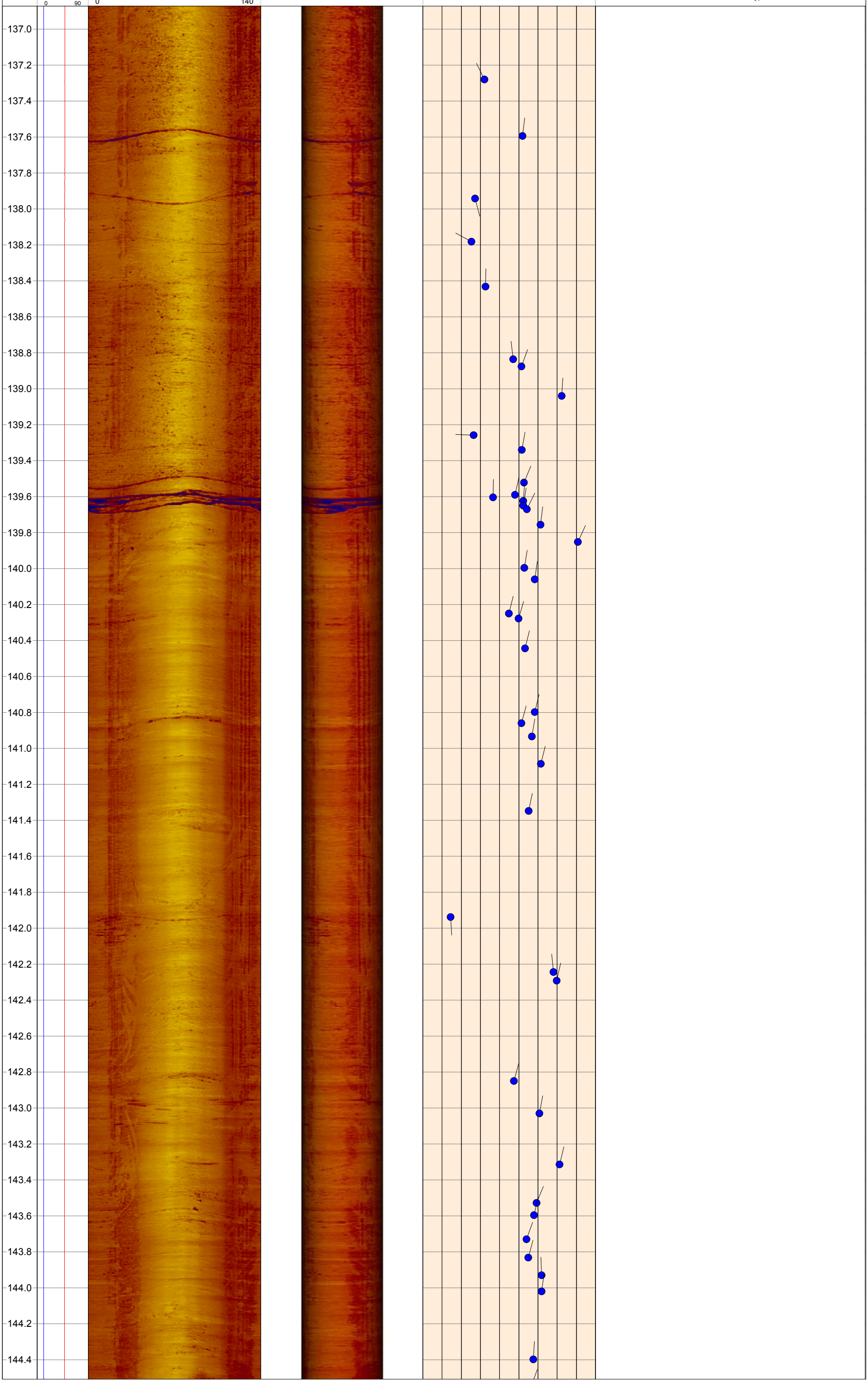


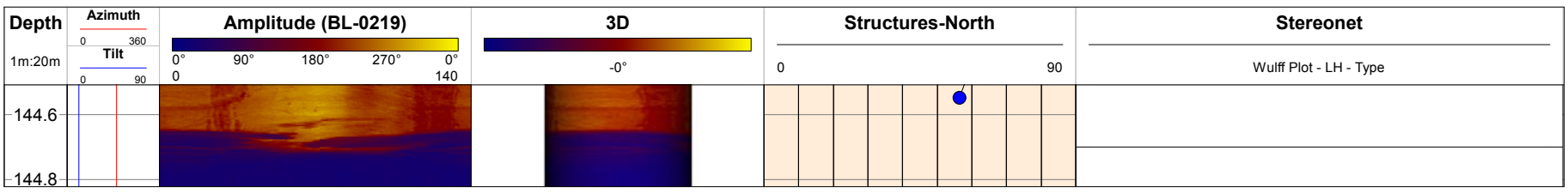
	Counts	Dip[deg]	Azi[deg]
Mean	182	43.88	25.65
●	182	43.88	25.65

Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



Depth	Azimuth	Amplitude (BL-0219)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				




Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0219)
0°
90°
180°
270°
0°
0
140
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
144.6
144.8

ACOUSTIC TELEVIEWER LOG

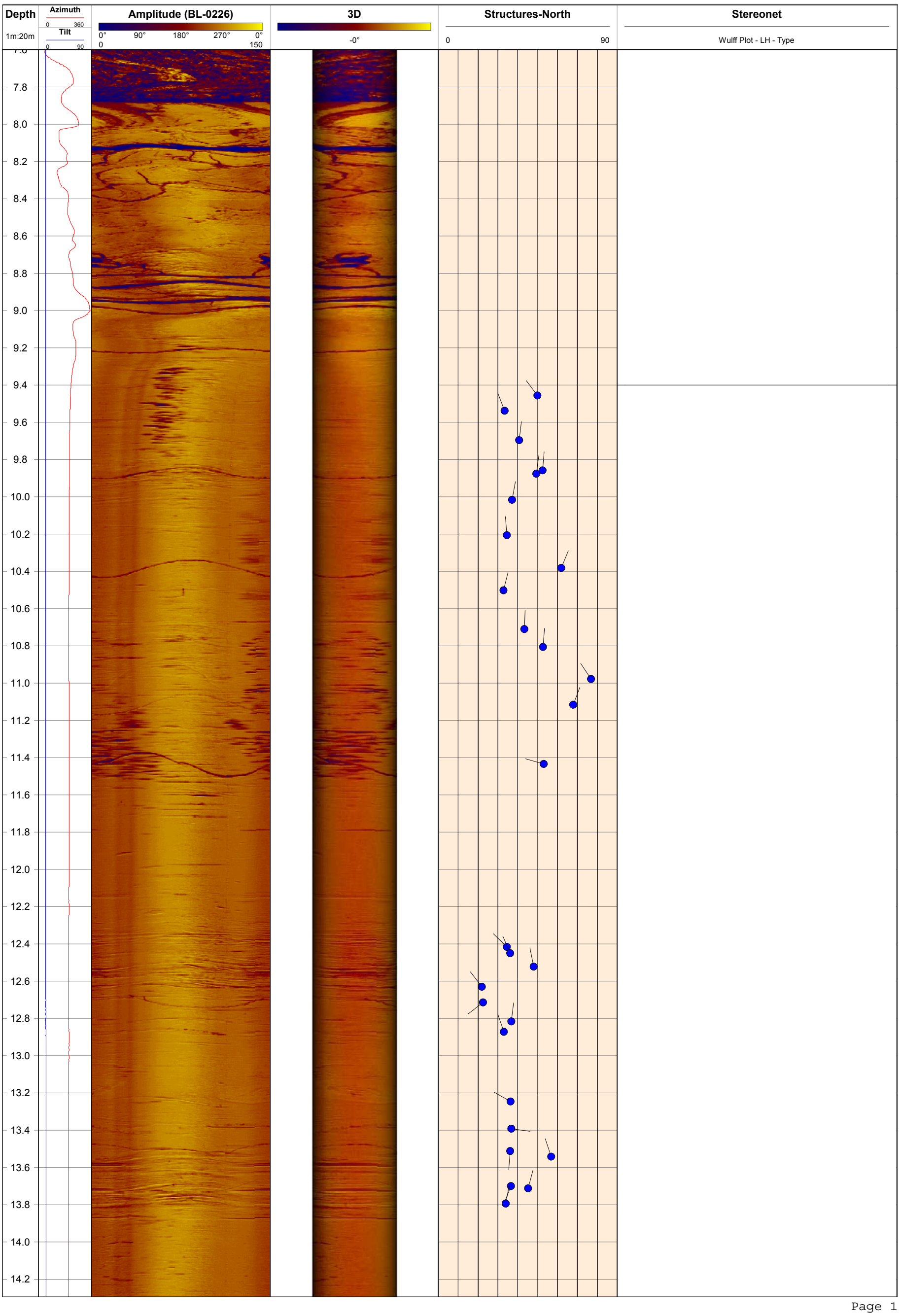
Fracflow Consultant Inc.
Environmental, Hydrogeological and
Geotechnical Engineering Consultants

Project Location:	**Springpole, ON**	***Easting:***	**549634.1**
Borehole ID:	**BL-0226**	***Northing:***	**5694137.1**
Report Date:	**December 2019**	***Bearing at the collar:***	**198**
Logging Date:	**August 19, 2019**	***Plunge at the collar:***	**-80**
Logging Depth (m):	**91.0**	***Borehole Depth (m):***	**94.0**

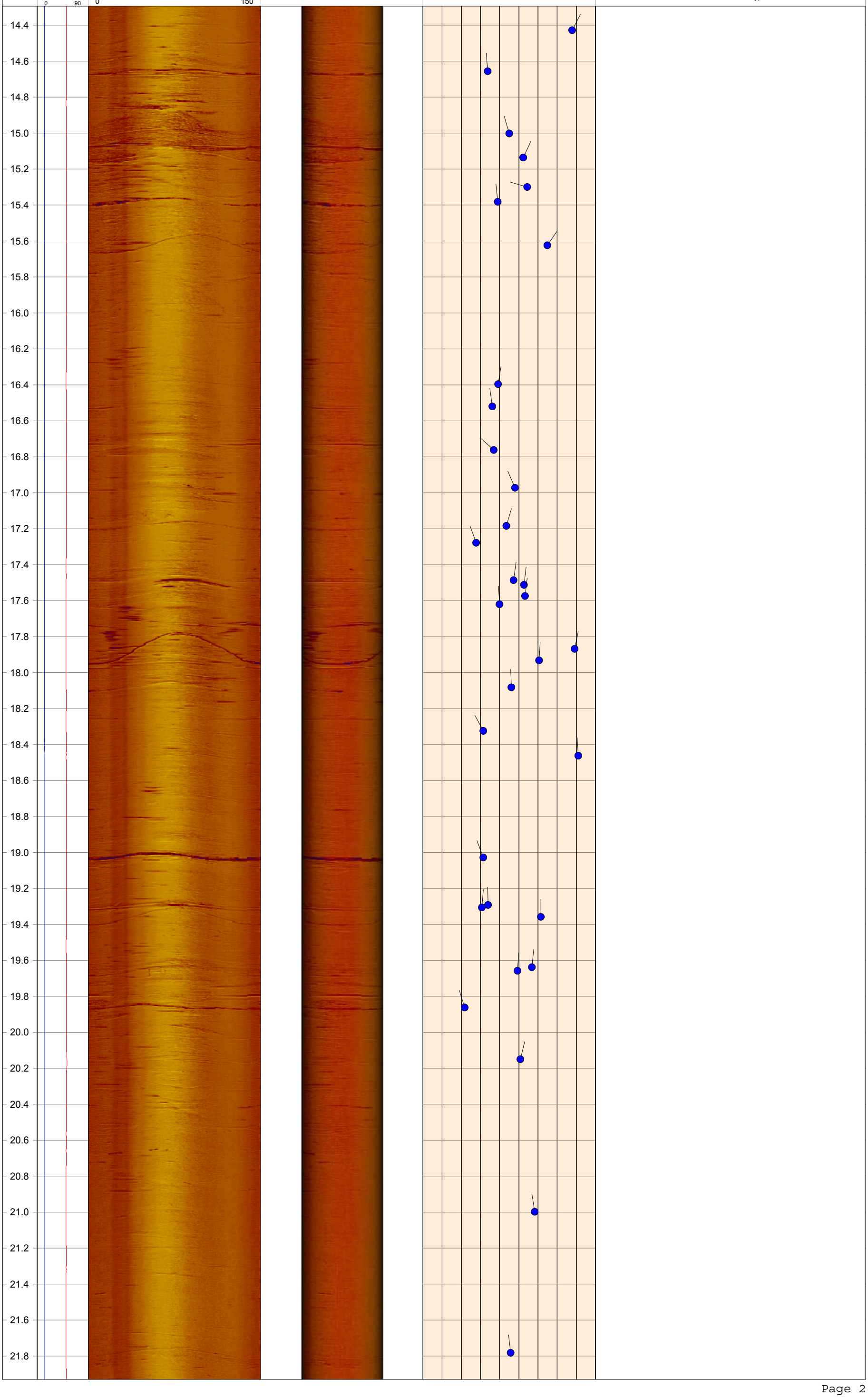
Client: **First Mining Gold / Gold Canyon Resources**

FFC Reference No: **FFC-NL-3134-002**

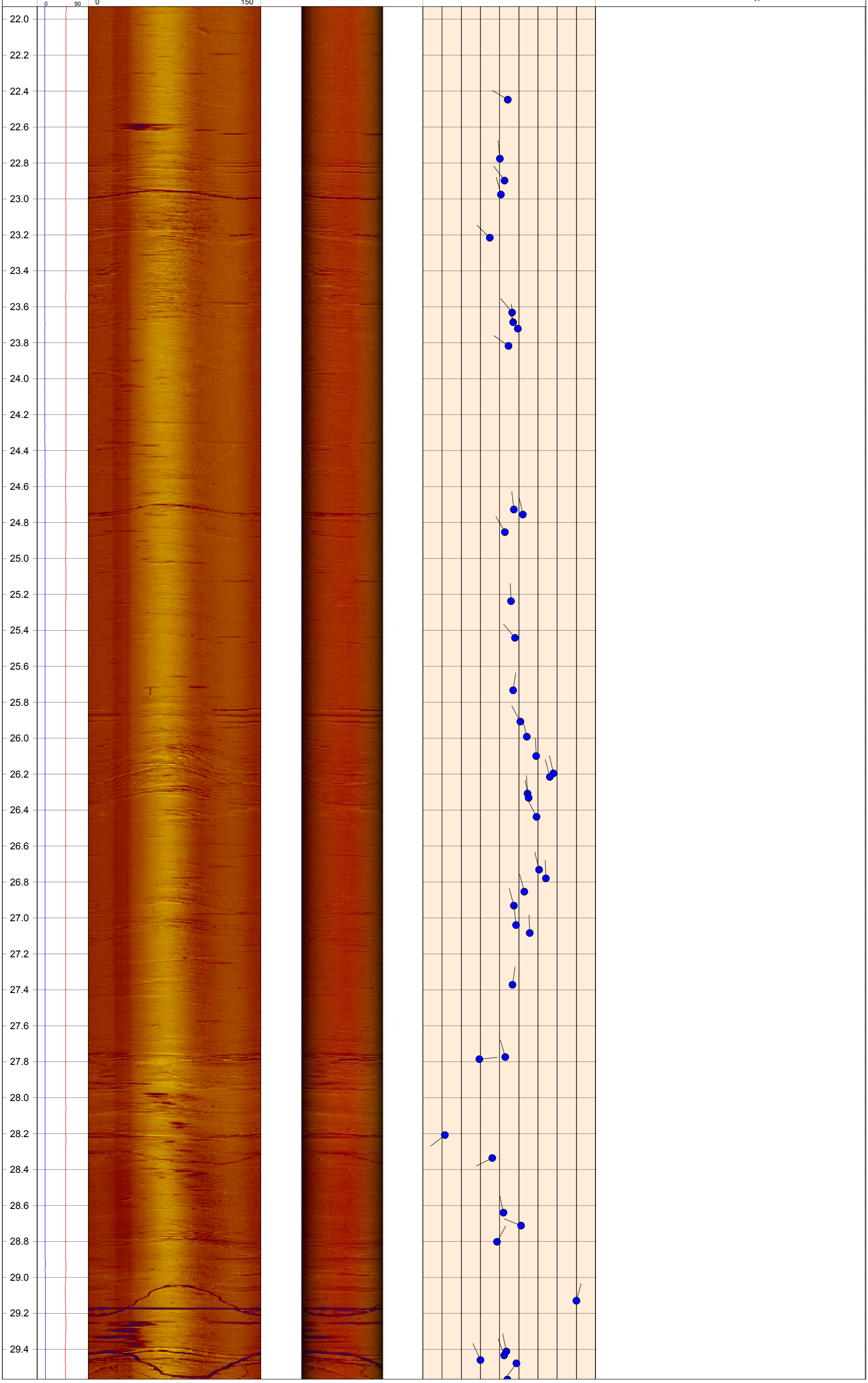
Figure No.: **D14**



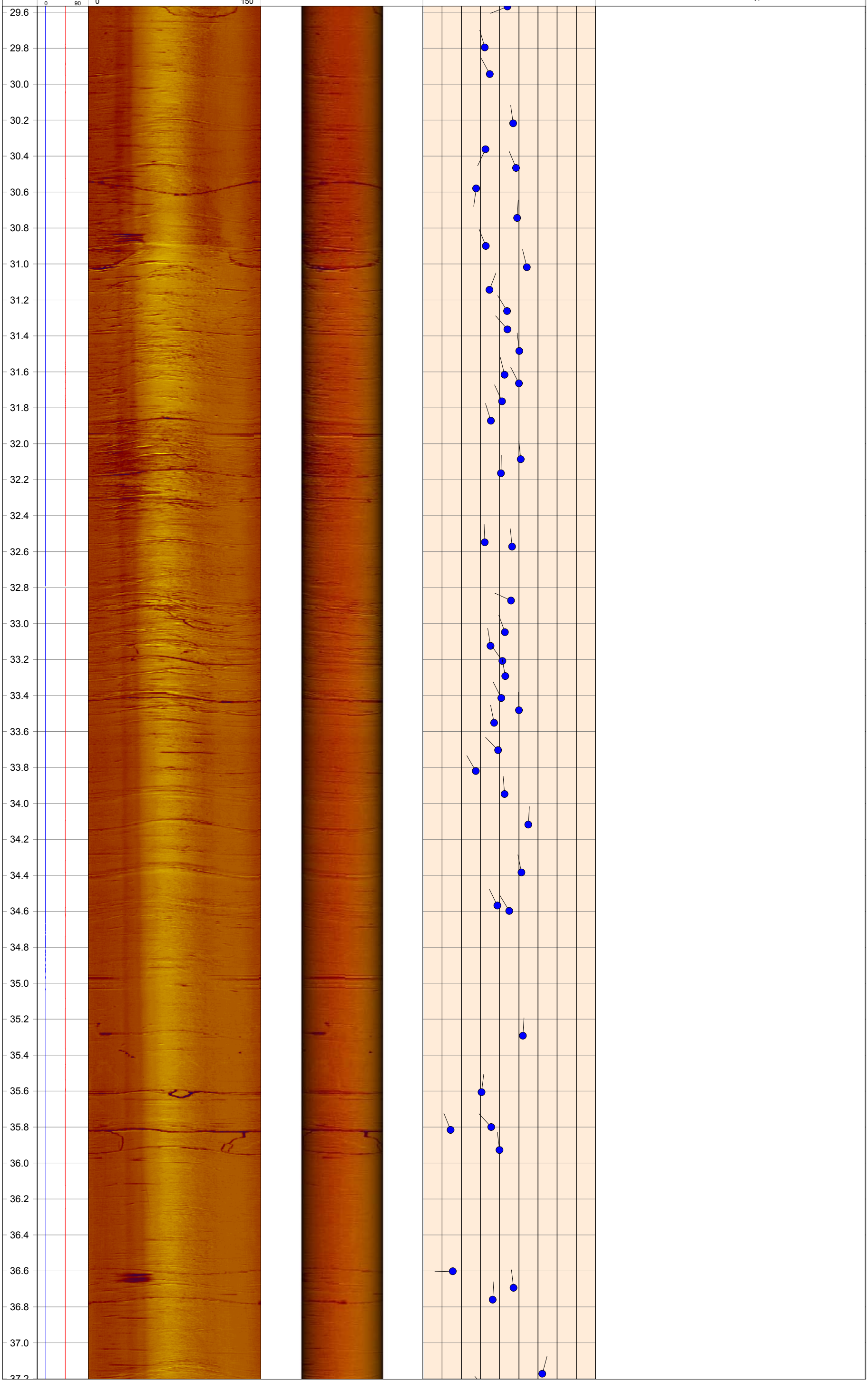
Depth	Azimuth	Amplitude (BL-0226)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				



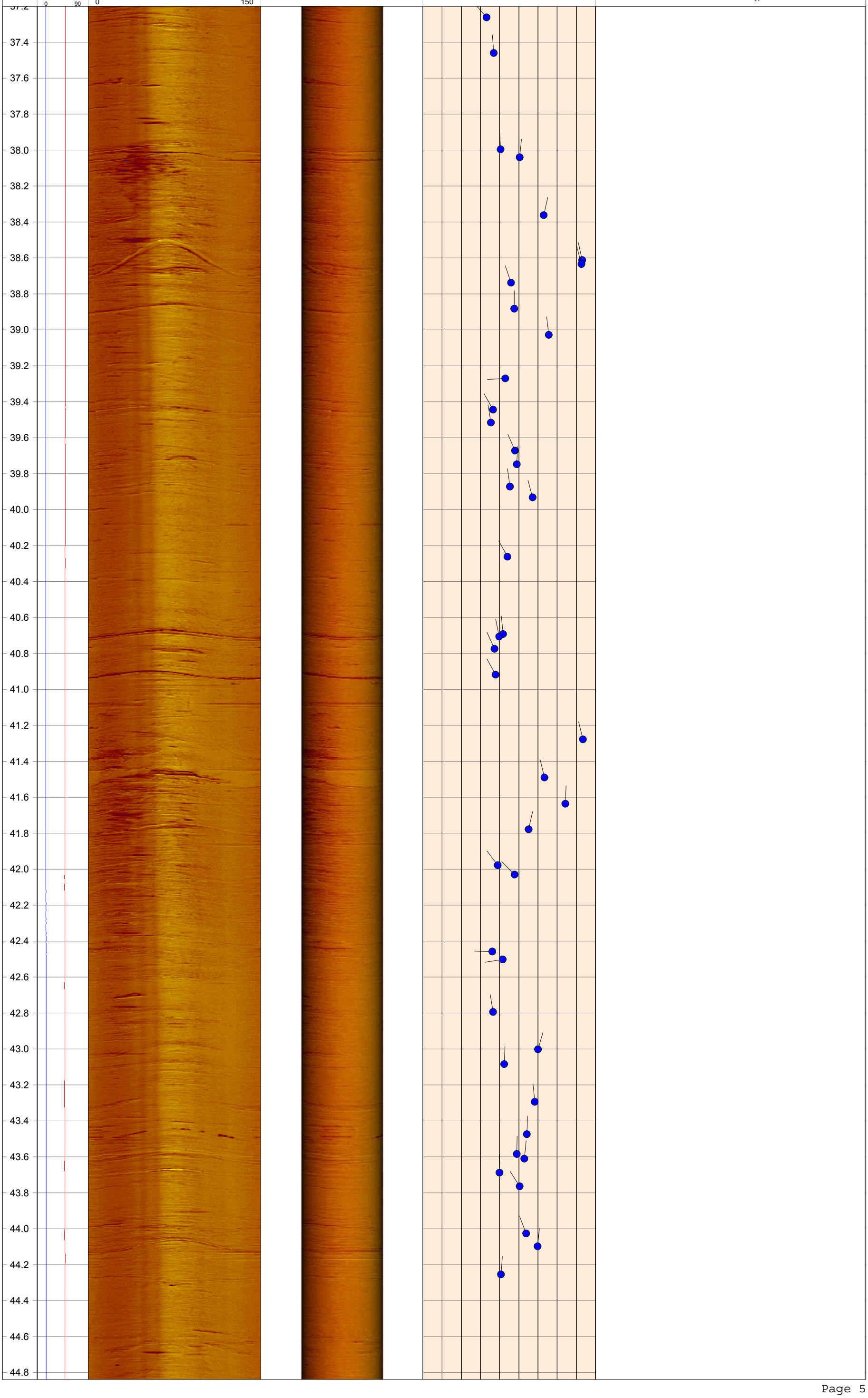
Depth	Azimuth	Amplitude (BL-0226)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				



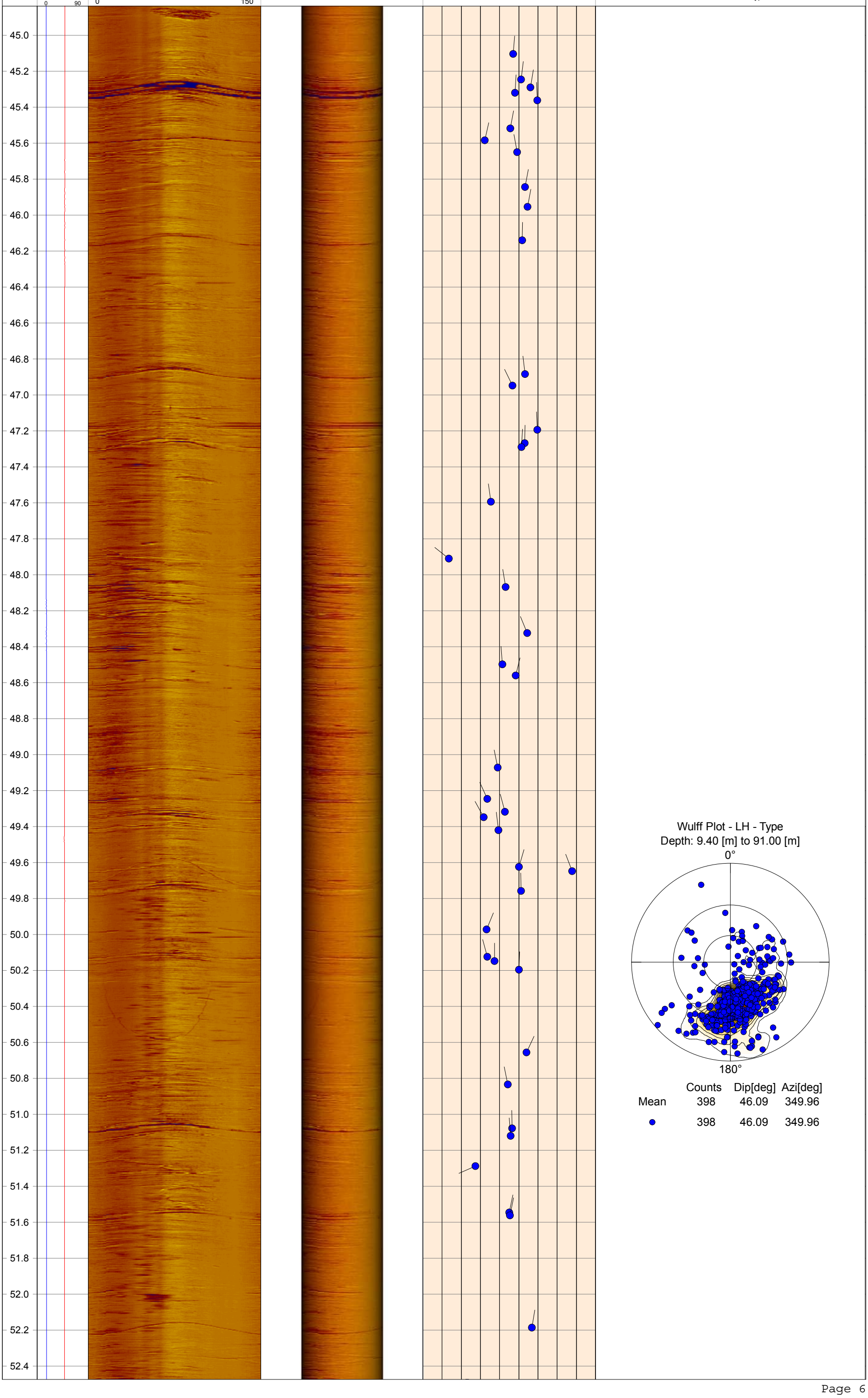
Depth	Azimuth	Amplitude (BL-0226)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				



Depth	Azimuth	Amplitude (BL-0226)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				

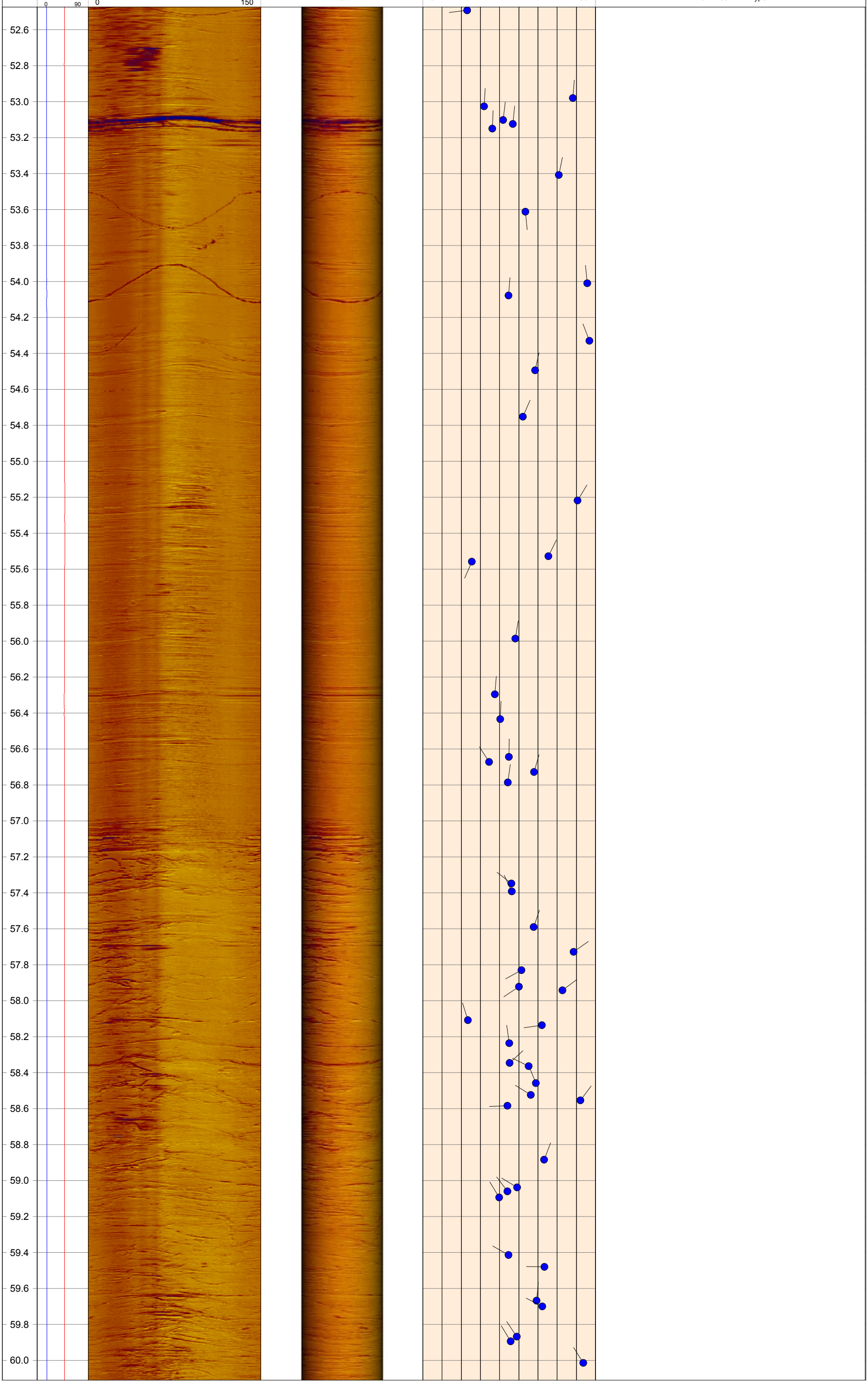


Depth	Azimuth	Amplitude (BL-0226)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				

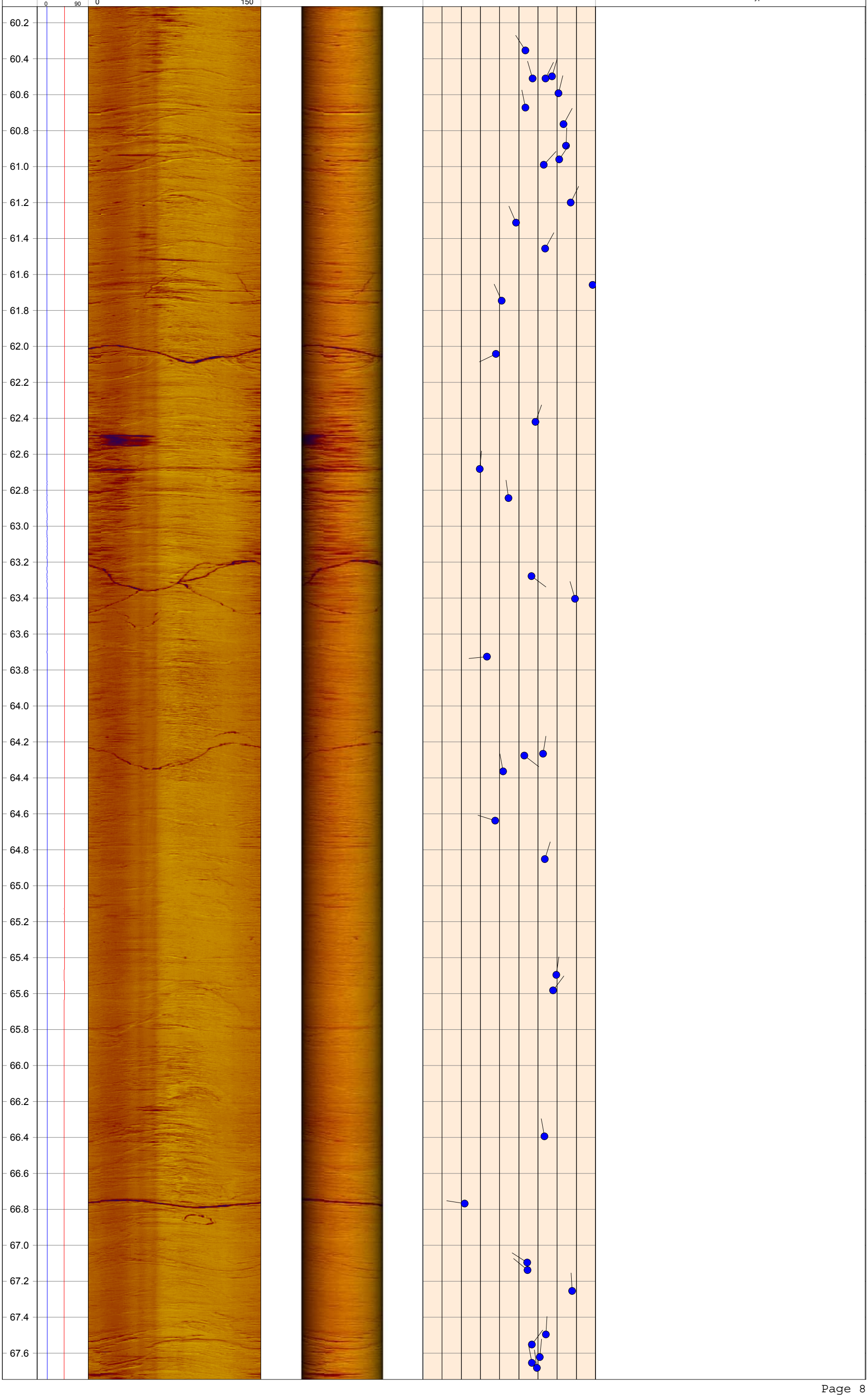


	Counts	Dip[deg]	Azi[deg]
Mean	398	46.09	349.96
●	398	46.09	349.96

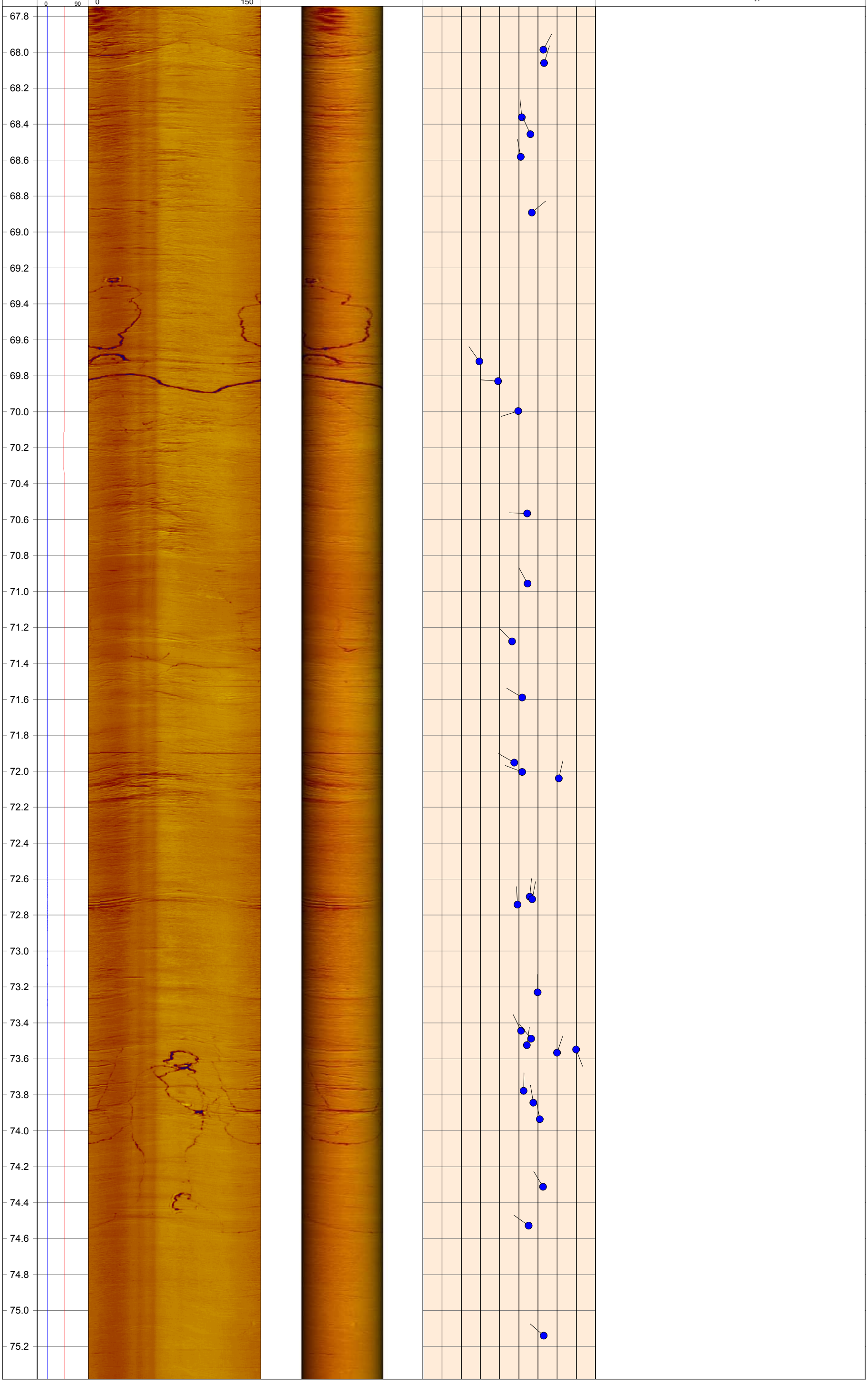
Depth	Azimuth	Amplitude (BL-0226)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				

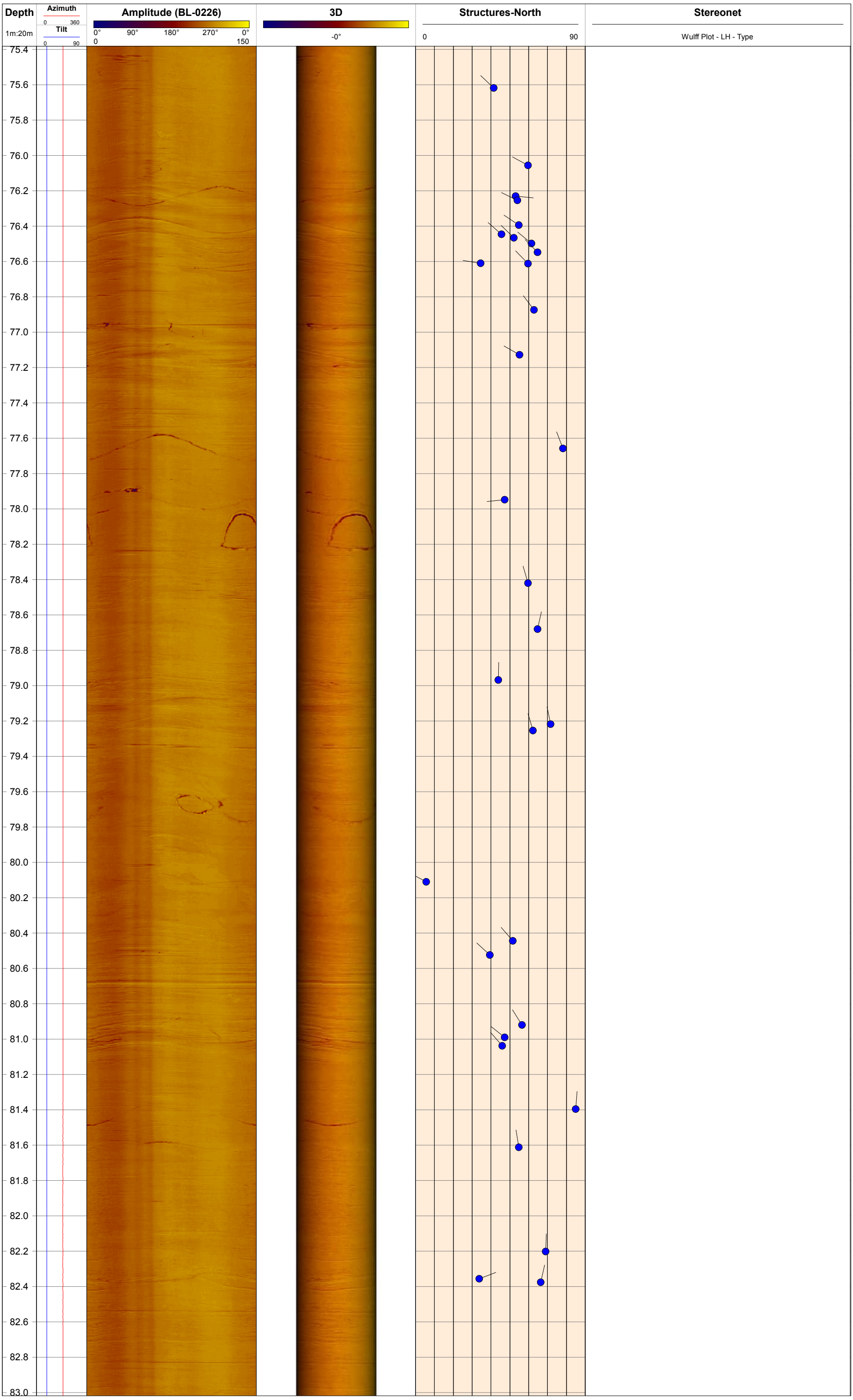


Depth	Azimuth	Amplitude (BL-0226)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				

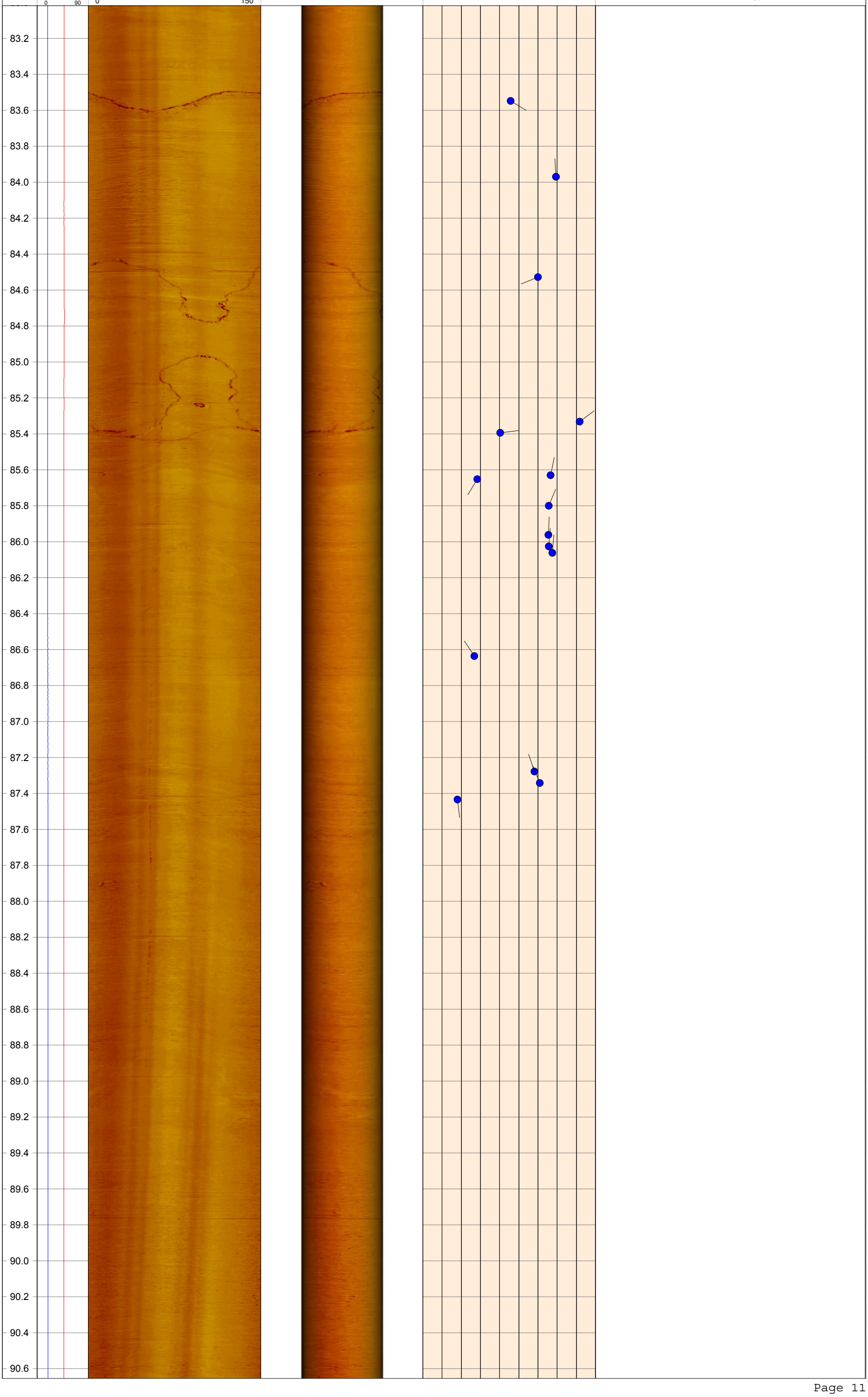


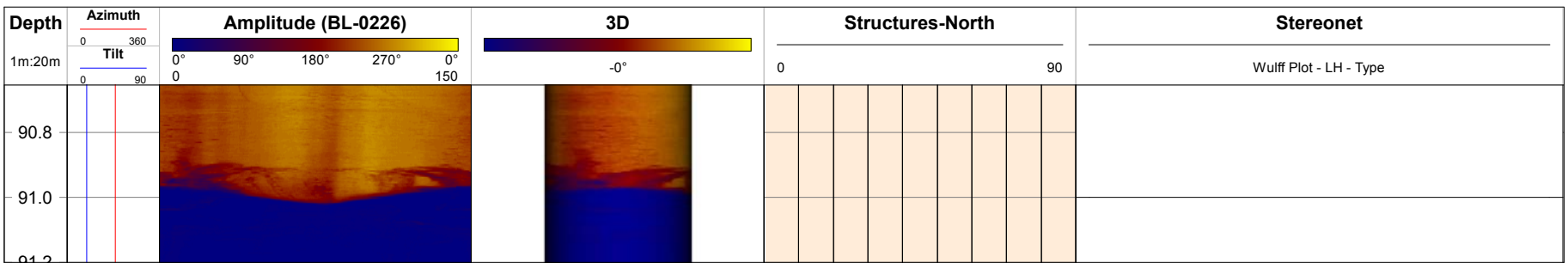
Depth	Azimuth	Amplitude (BL-0226)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				




Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0226)
0°
90°
180°
270°
0°
0
150
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
75.4
75.6
75.8
76.0
76.2
76.4
76.6
76.8
77.0
77.2
77.4
77.6
77.8
78.0
78.2
78.4
78.6
78.8
79.0
79.2
79.4
79.6
79.8
80.0
80.2
80.4
80.6
80.8
81.0
81.2
81.4
81.6
81.8
82.0
82.2
82.4
82.6
82.8
83.0

Depth	Azimuth	Amplitude (BL-0226)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				




Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0226)
0°
90°
180°
270°
0°
0
150
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
90.8
91.0

ACOUSTIC TELEVIEWER LOG

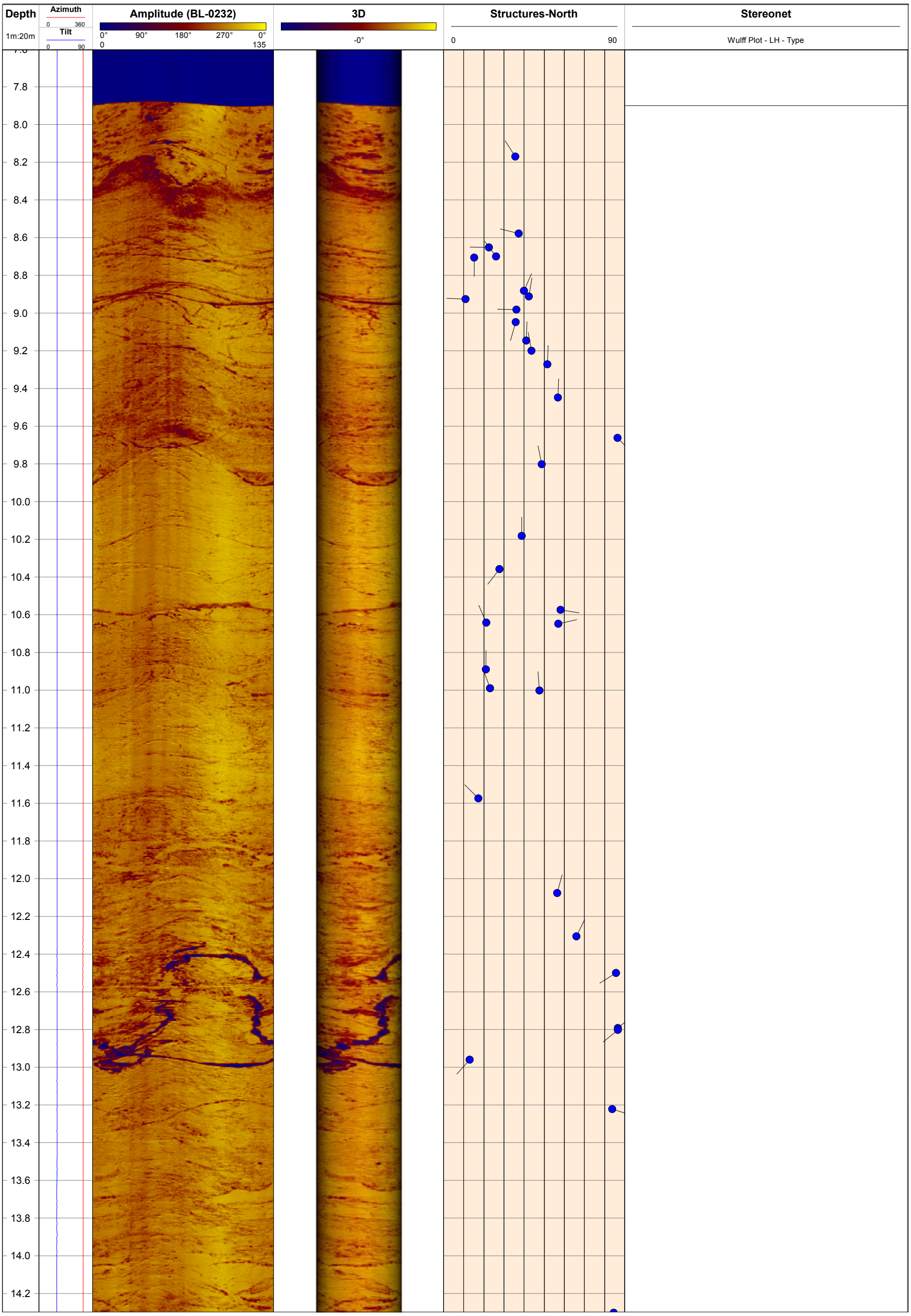
Fracflow Consultant Inc.
Environmental, Hydrogeological and
Geotechnical Engineering Consultants

Project Location:	**Springpole, ON**	***Easting:***	**549654.3**
Borehole ID:	**BL-0232**	***Northing:***	**5694099.6**
Report Date:	**December 2019**	***Bearing at the collar:***	**288**
Logging Date:	**August 15, 2019**	***Plunge at the collar:***	**-60**
Logging Depth (m):	**117.4**	***Borehole Depth (m):***	**124.05**

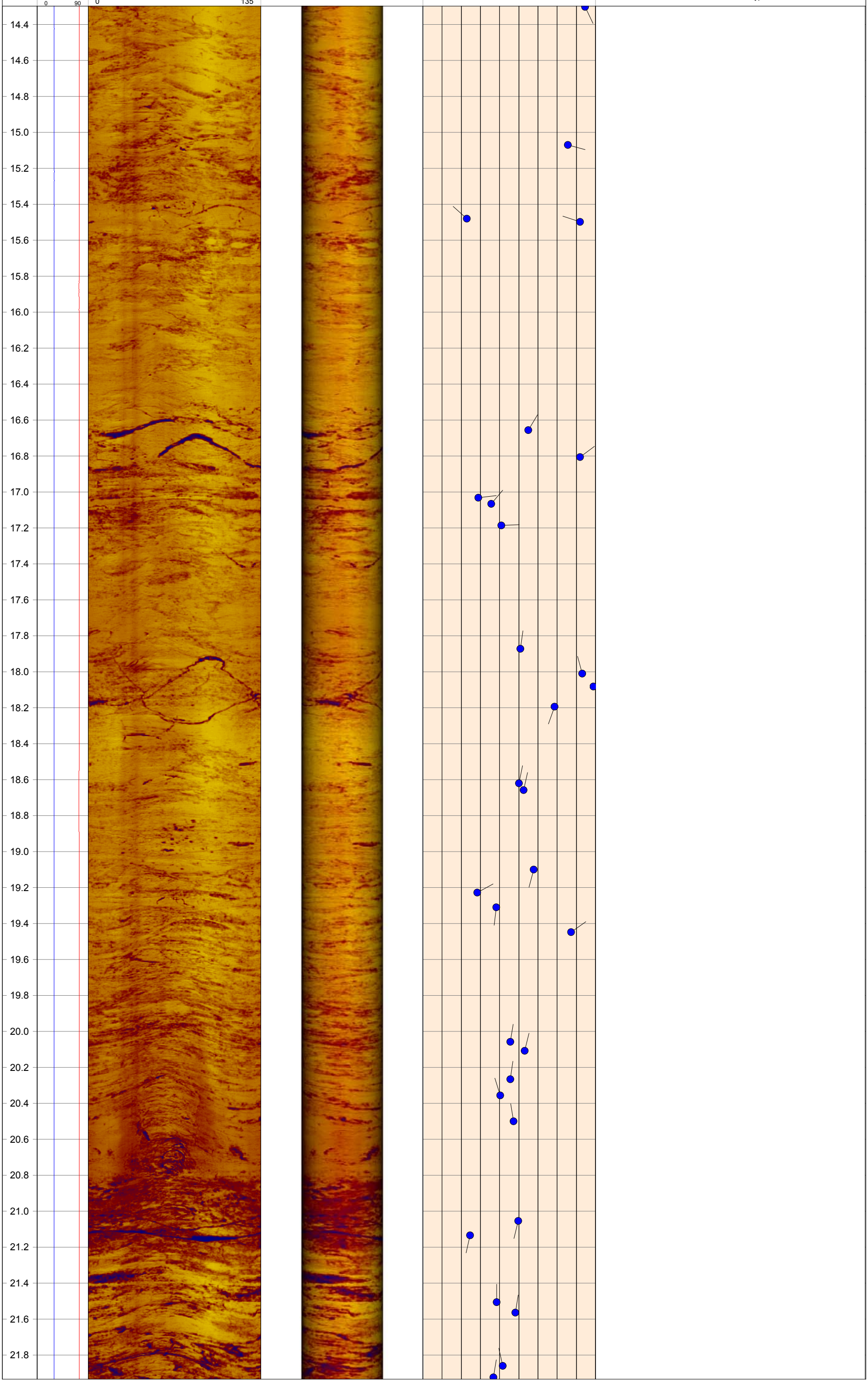
Client: **First Mining Gold / Gold Canyon Resources**

FFC Reference No: **FFC-NL-3134-002**

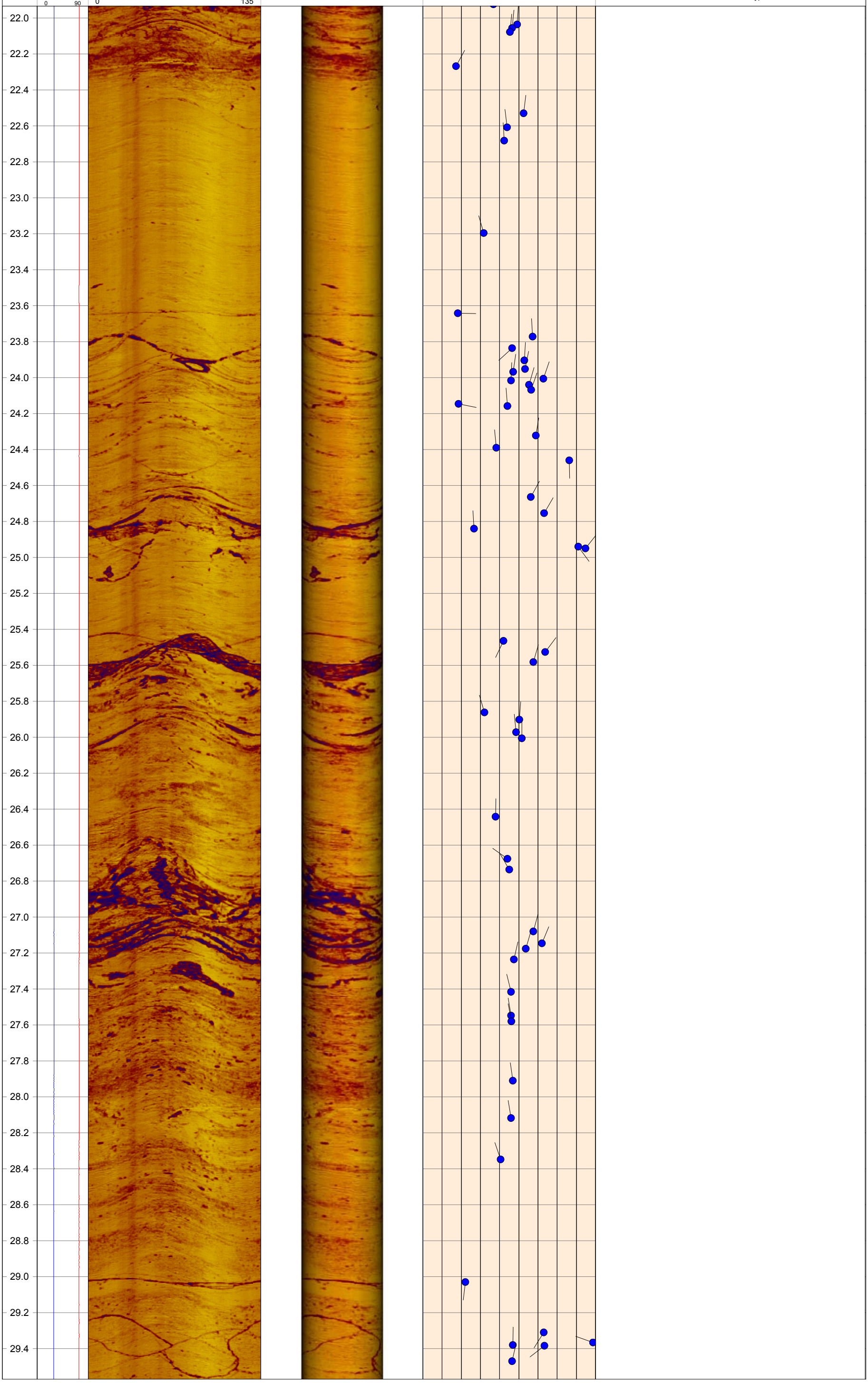
Figure No.: **D15**



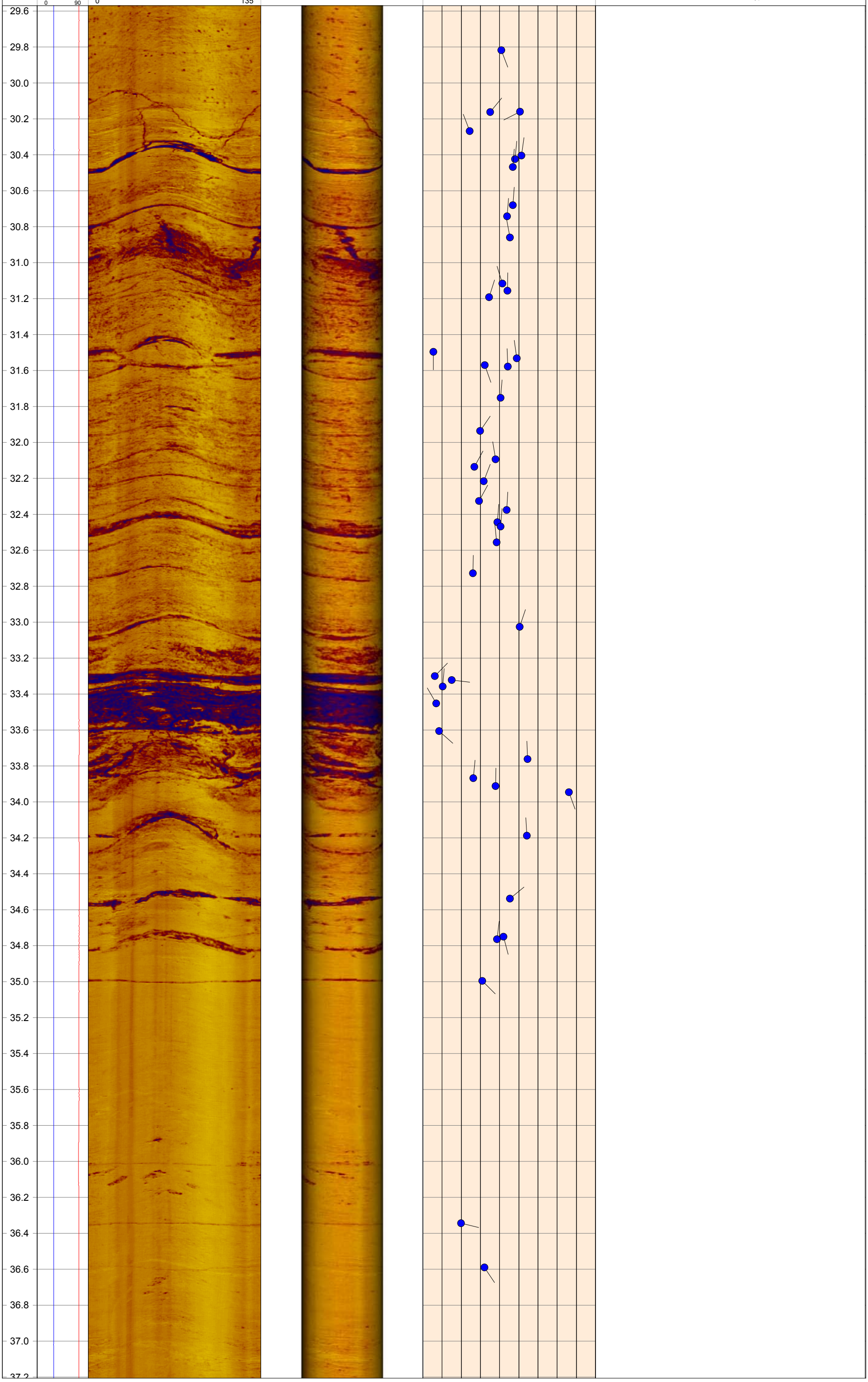
Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				



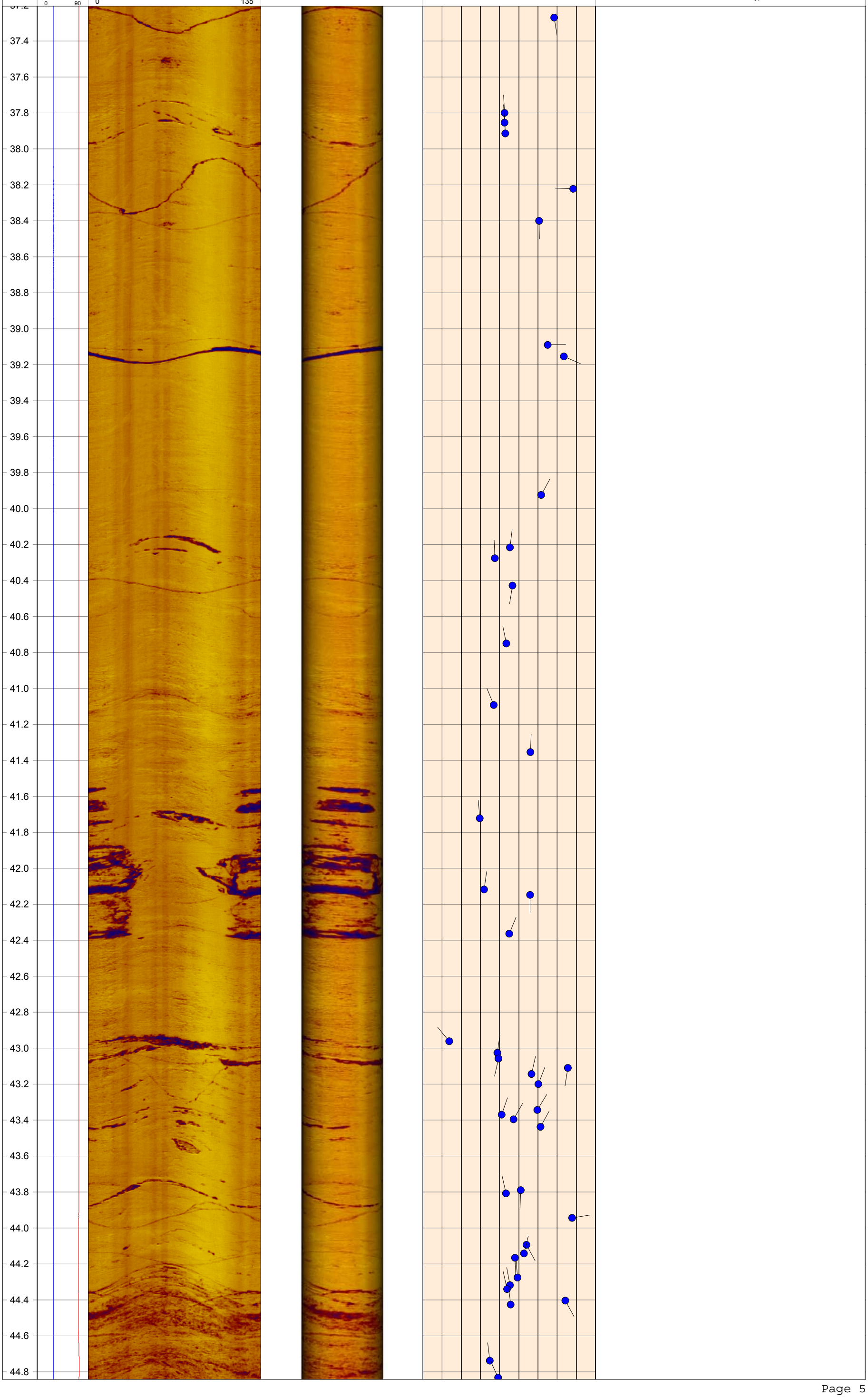
Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				



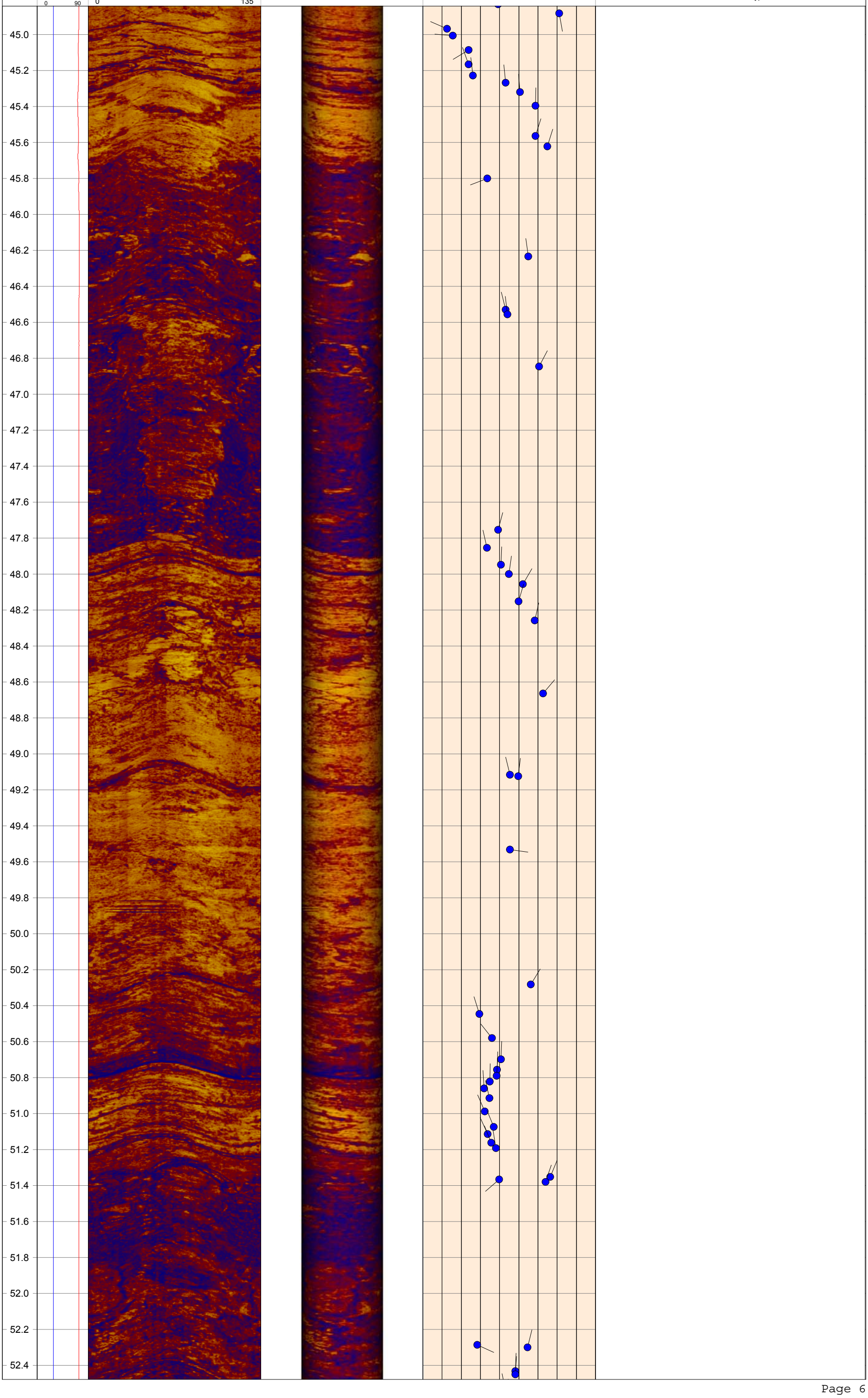
Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				



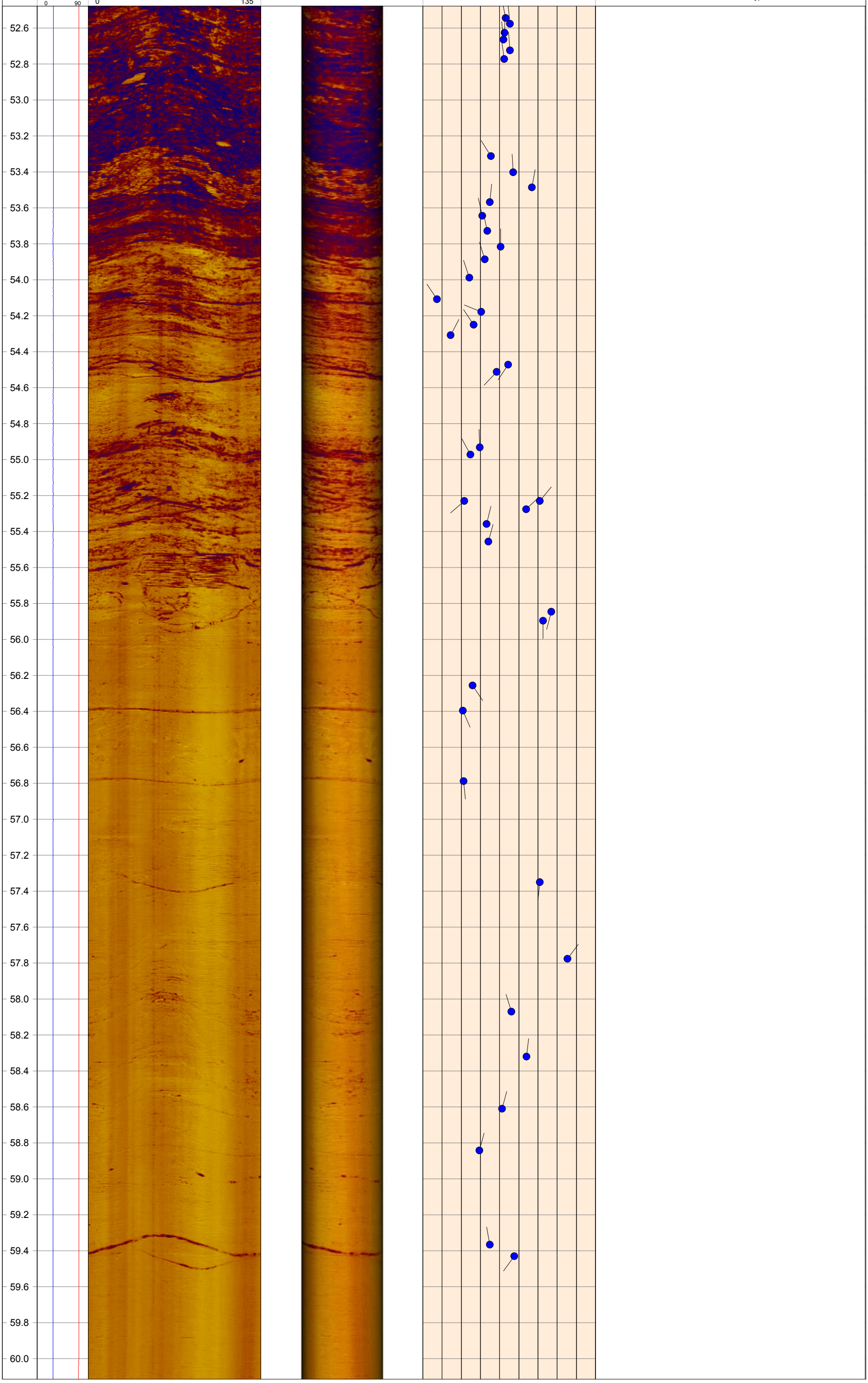
Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				



Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				



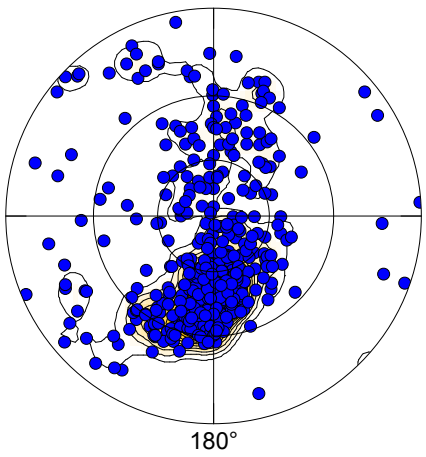
Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				



Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				

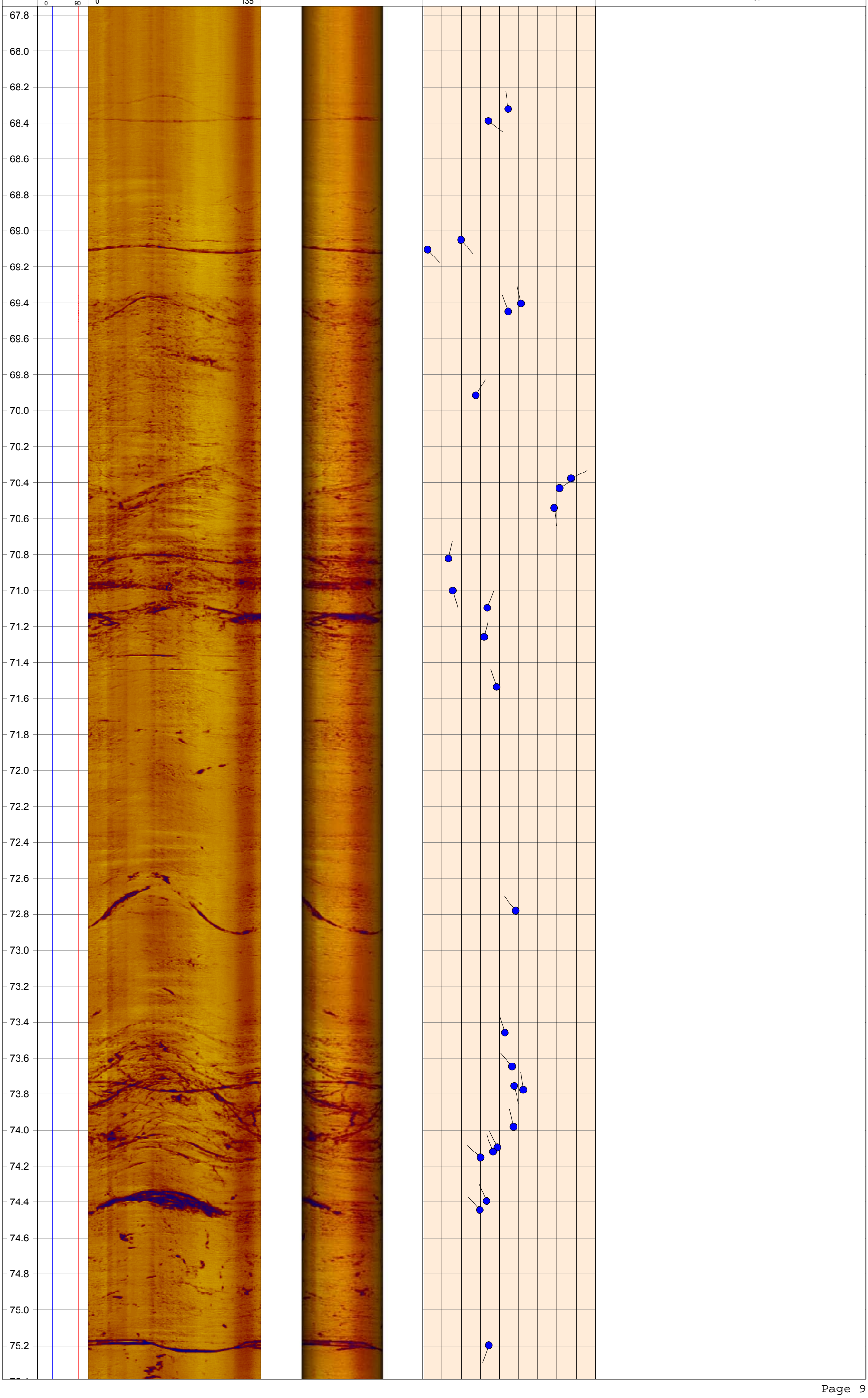
60.2 60.4 60.6 60.8 61.0 61.2 61.4 61.6 61.8 62.0 62.2 62.4 62.6 62.8 63.0 63.2 63.4 63.6 63.8 64.0 64.2 64.4 64.6 64.8 65.0 65.2 65.4 65.6 65.8 66.0 66.2 66.4 66.6 66.8 67.0 67.2 67.4 67.6

Wulff Plot - LH - Type
Depth: 7.90 [m] to 117.40 [m]

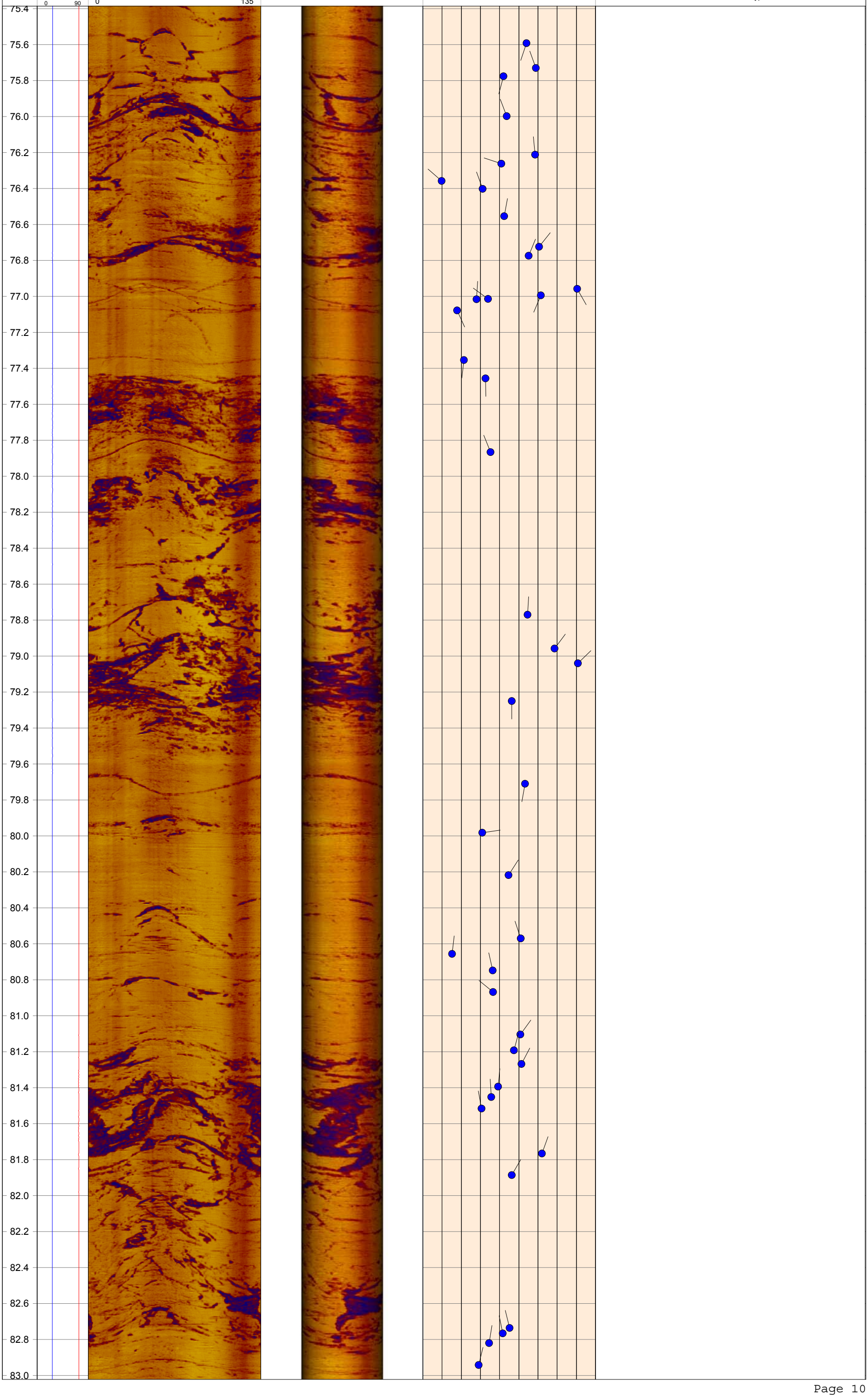


	Counts	Dip[deg]	Azi[deg]
Mean	483	39.49	2.60
●	483	39.49	2.60

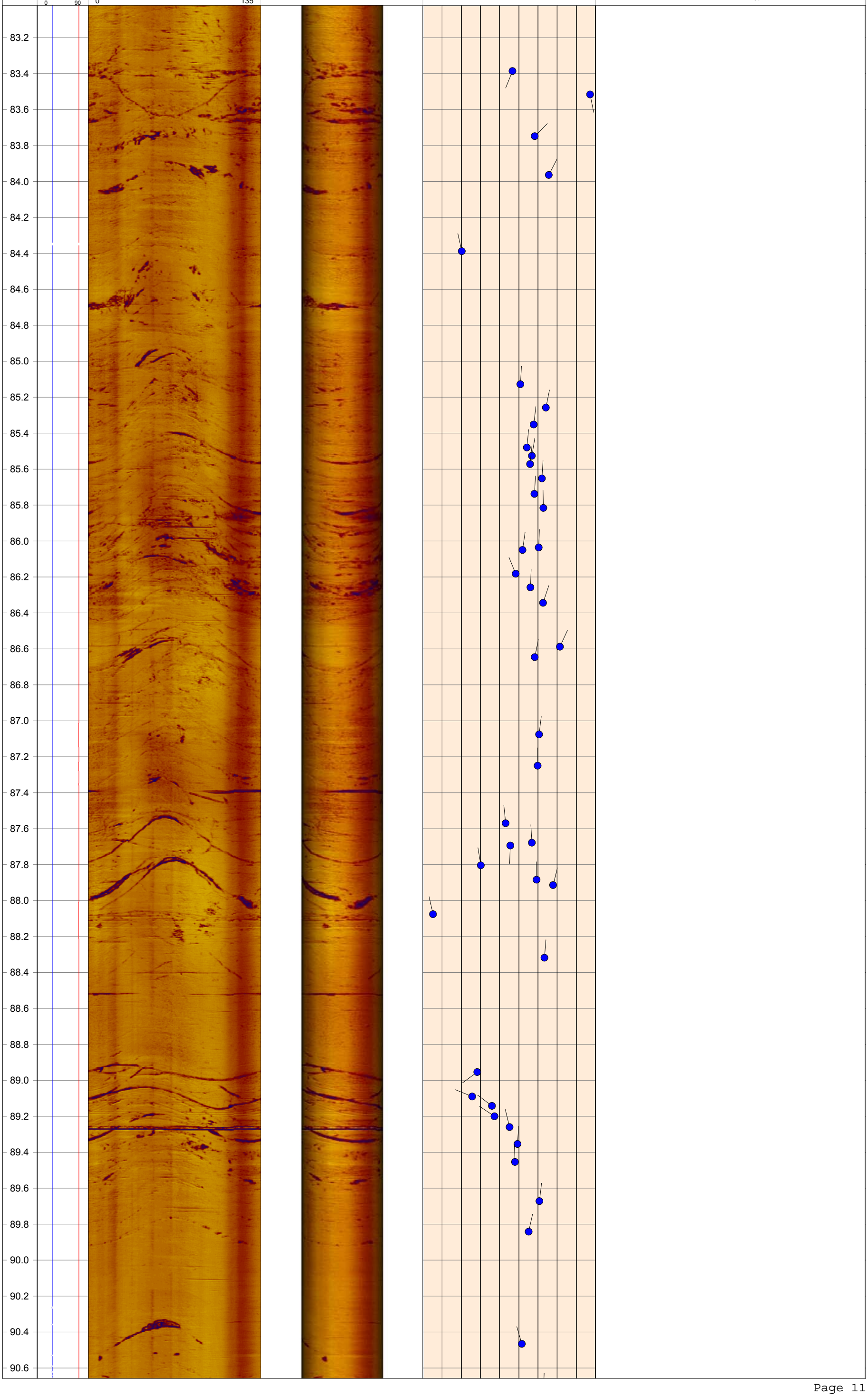
Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				



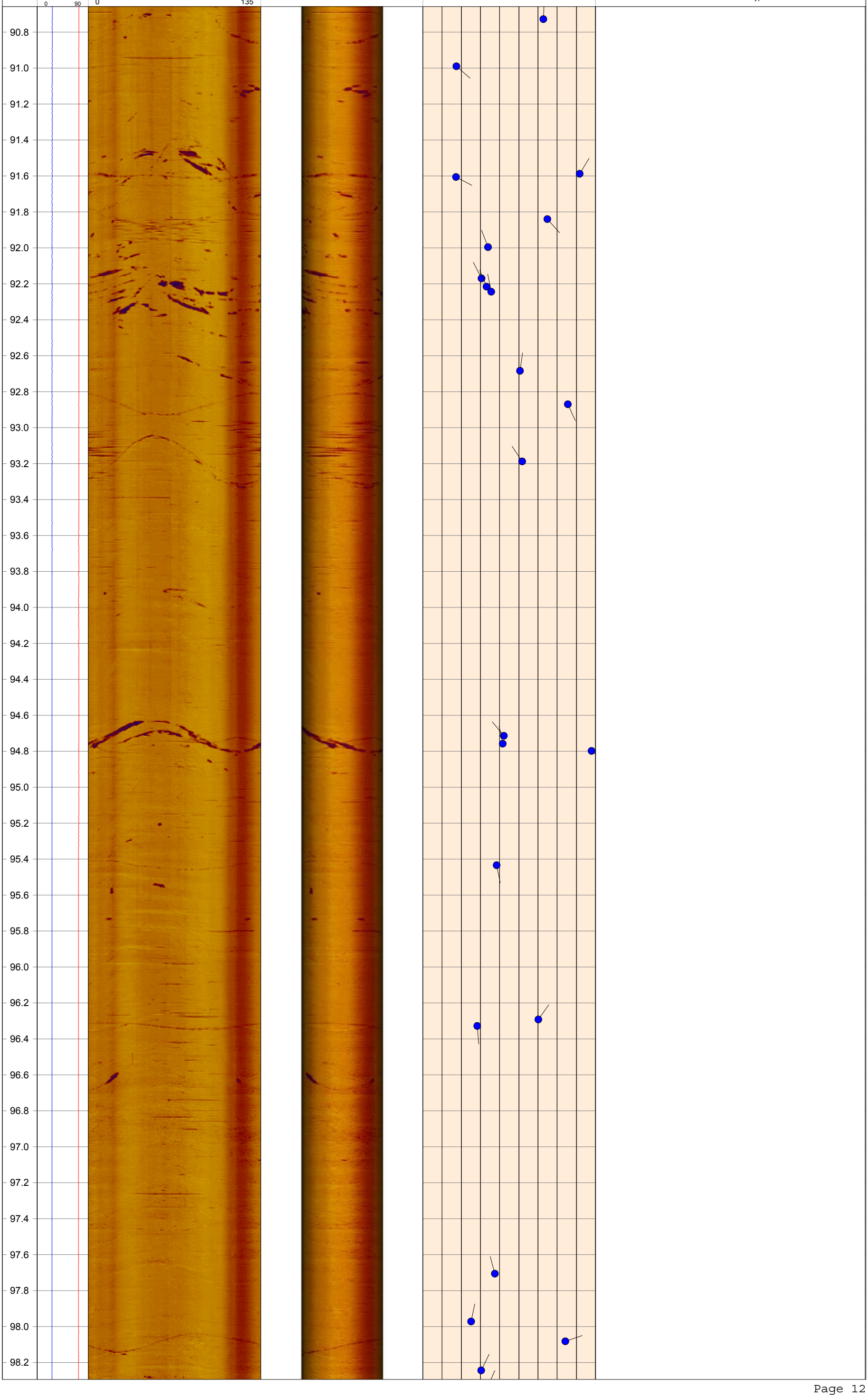
Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				



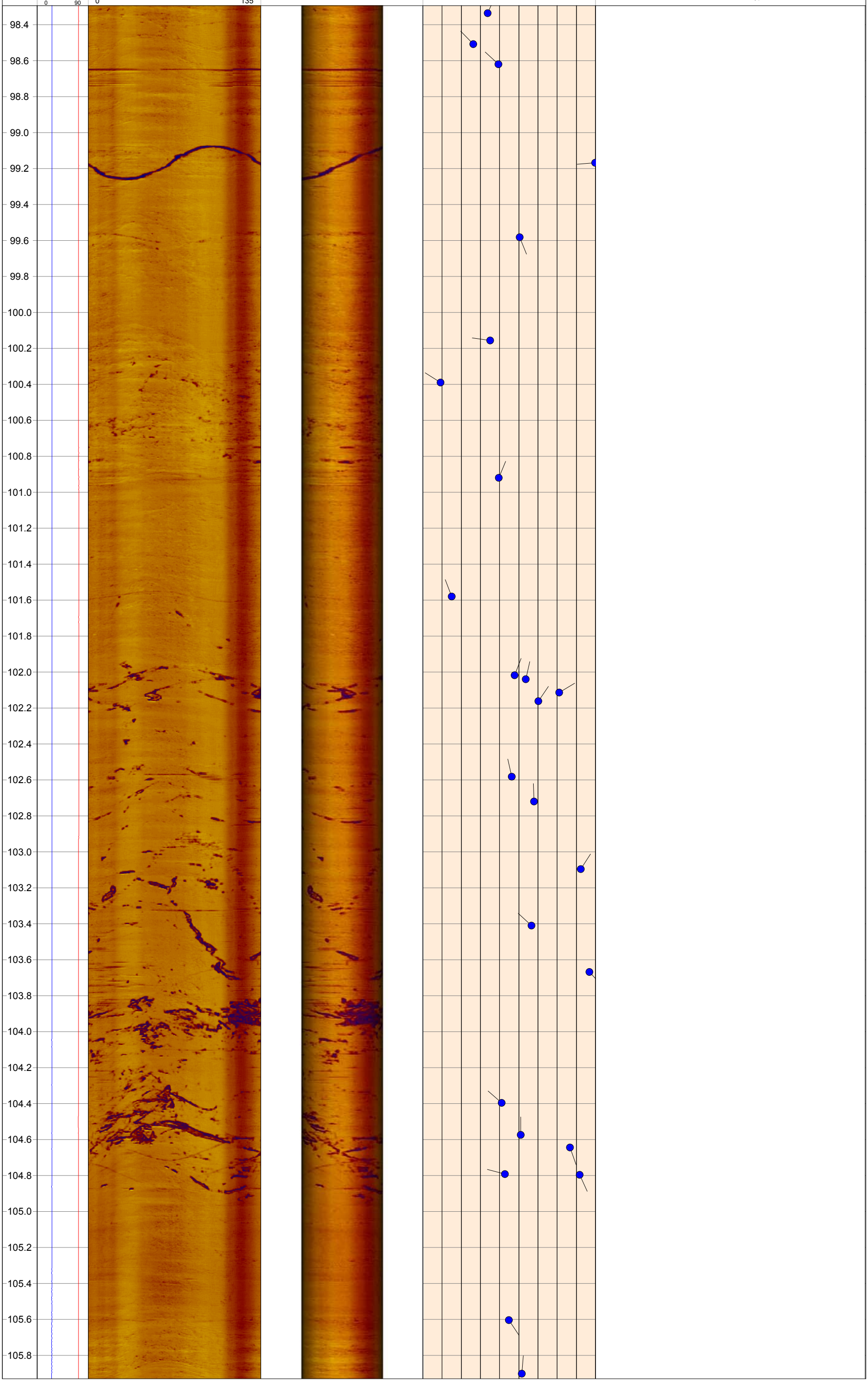
Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				

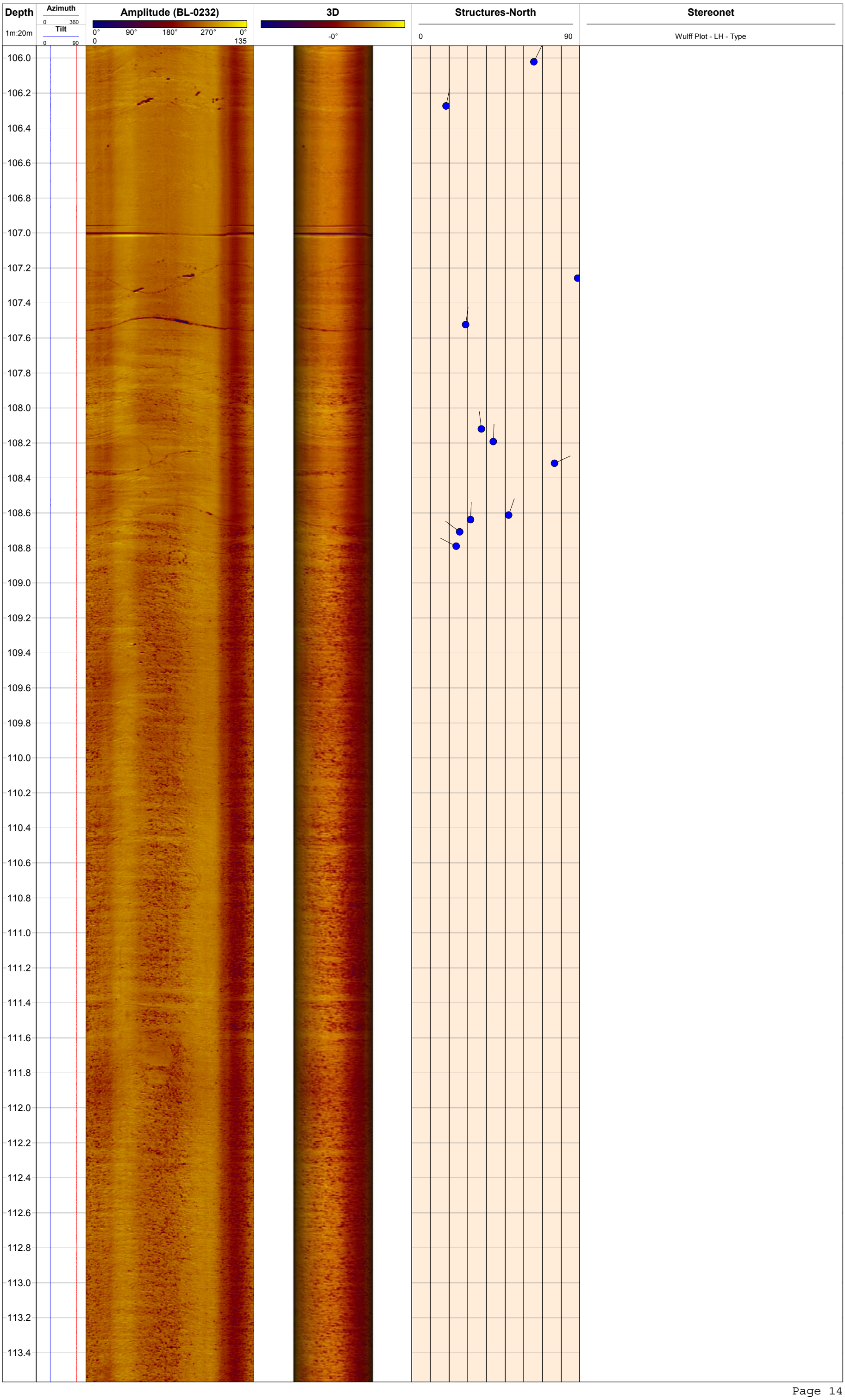


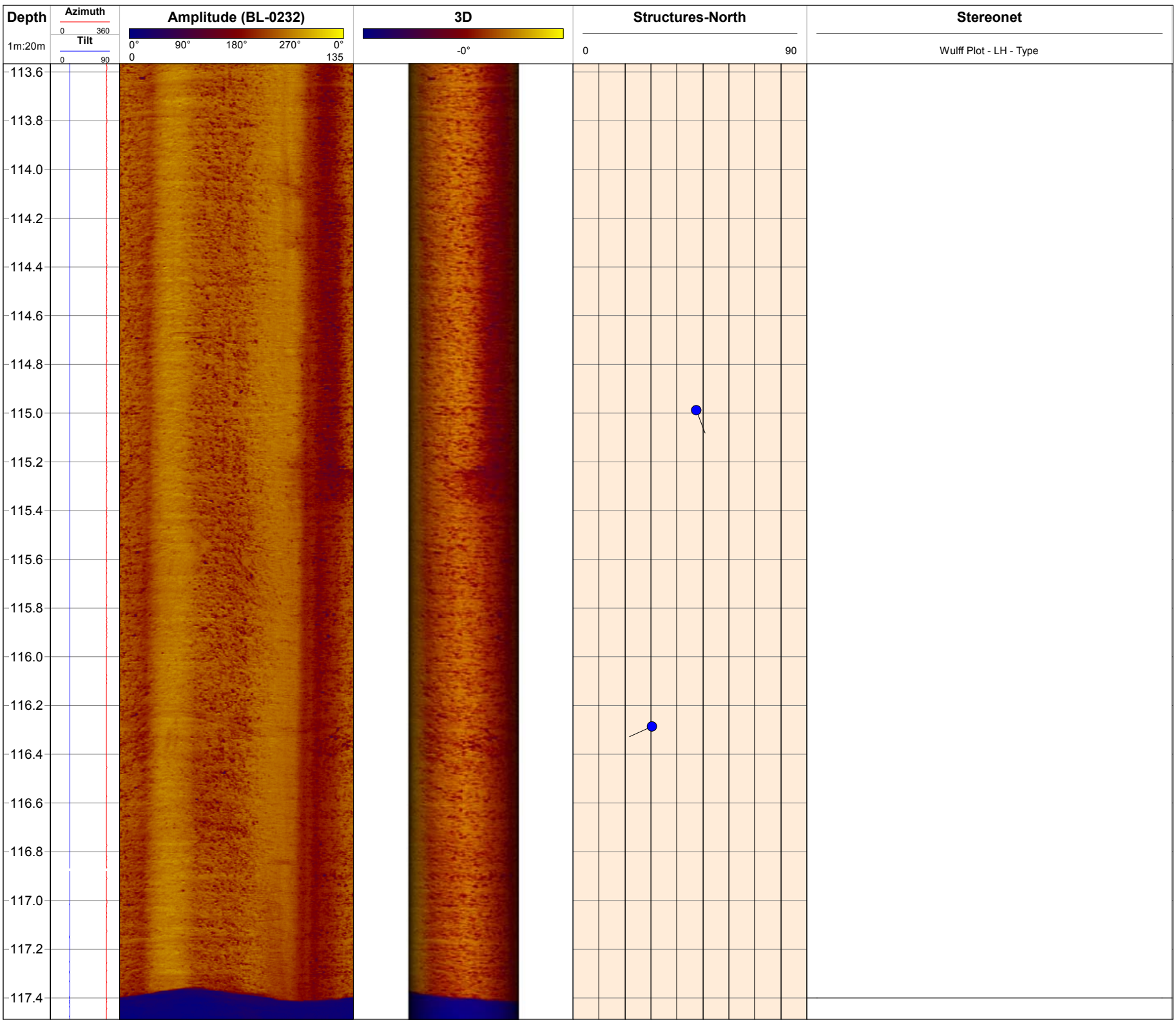
Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				



Depth	Azimuth	Amplitude (BL-0232)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 135			
	0 90				




Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0232)
0°
90°
180°
270°
0°
0
135
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
106.0
106.2
106.4
106.6
106.8
107.0
107.2
107.4
107.6
107.8
108.0
108.2
108.4
108.6
108.8
109.0
109.2
109.4
109.6
109.8
110.0
110.2
110.4
110.6
110.8
111.0
111.2
111.4
111.6
111.8
112.0
112.2
112.4
112.6
112.8
113.0
113.2
113.4


Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0232)
0°
90°
180°
270°
0°
0
135
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
113.6
113.8
114.0
114.2
114.4
114.6
114.8
115.0
115.2
115.4
115.6
115.8
116.0
116.2
116.4
116.6
116.8
117.0
117.2
117.4

ACOUSTIC TELEVIEWER LOG

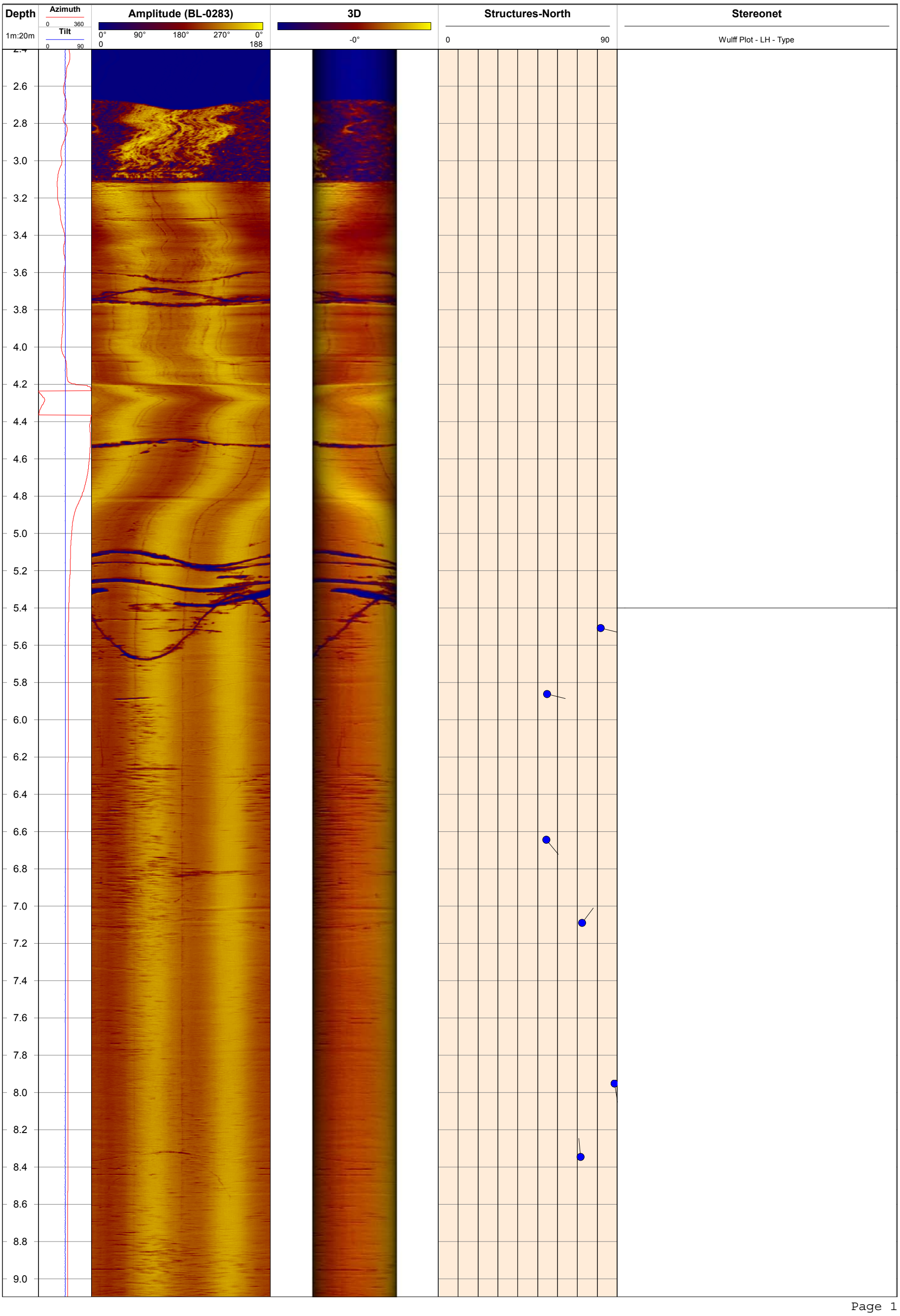
Fracflow Consultant Inc.
Environmental, Hydrogeological and
Geotechnical Engineering Consultants

Project Location:	**Springpole, ON**	***Easting:***	**548812.5**
Borehole ID:	**BL-0283**	***Northing:***	**5694192.8**
Report Date:	**December 2019**	***Bearing at the collar:***	**198**
Logging Date:	**August 13, 2019**	***Plunge at the collar:***	**-50**
Logging Depth (m):	**32.5**	***Borehole Depth (m):***	**87.0**

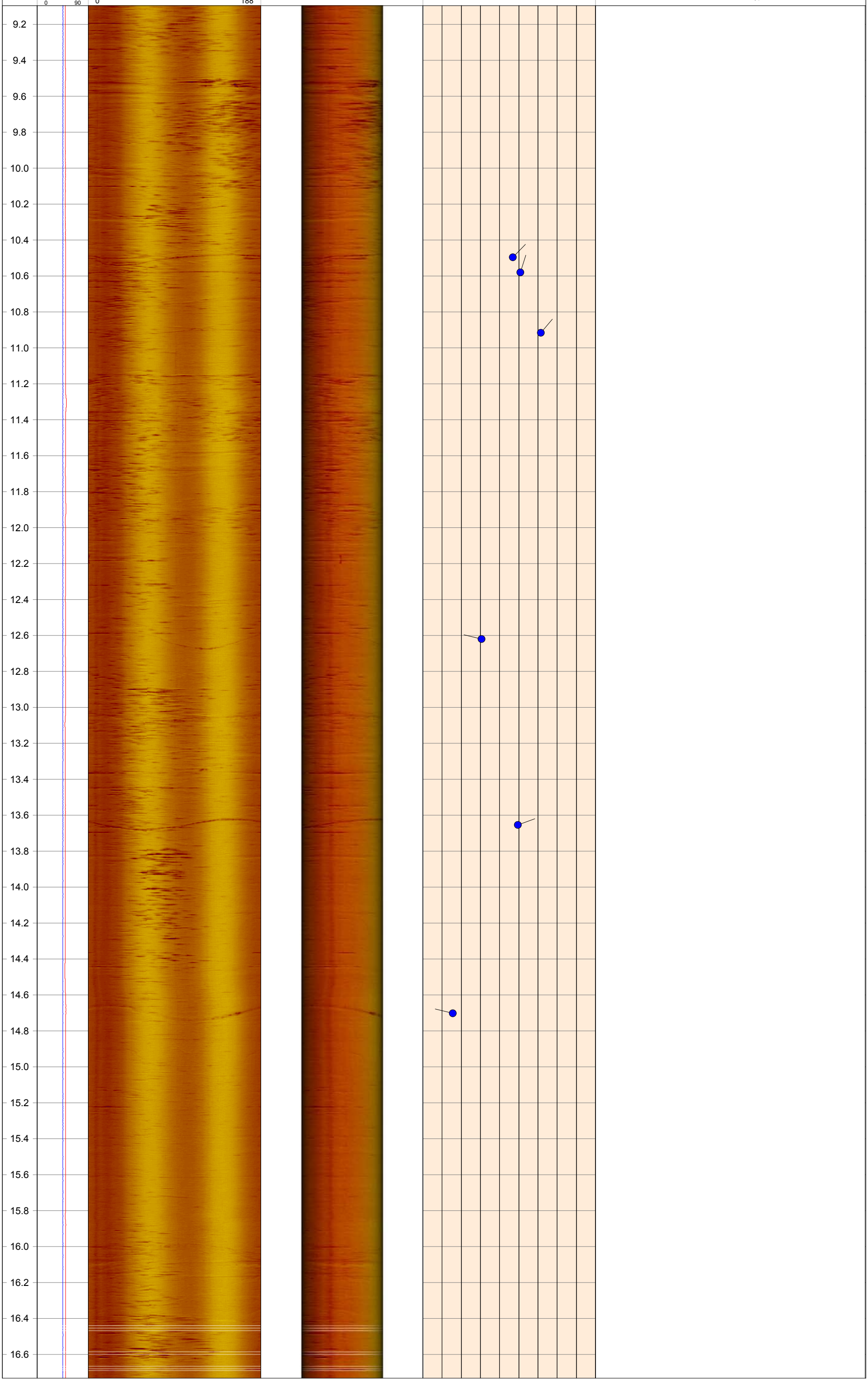
Client: **First Mining Gold / Gold Canyon Resources**

FFC Reference No: **FFC-NL-3134-002**

Figure No.: **D16**



Depth	Azimuth	Amplitude (BL-0283)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 188			
	0 90				



Depth
1m:20m

Azimuth
0 360

Tilt
0 90

Amplitude (BL-0283)
0° 90° 180° 270° 0°
0 188

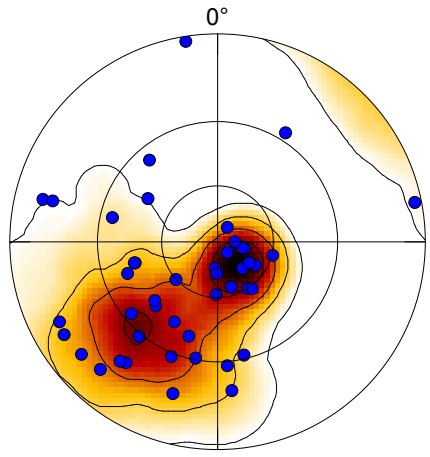
3D
-0°

Structures-North
0 90

Stereonet
Wulff Plot - LH - Type

16.8
17.0
17.2
17.4
17.6
17.8
18.0
18.2
18.4
18.6
18.8
19.0
19.2
19.4
19.6
19.8
20.0
20.2
20.4
20.6
20.8
21.0
21.2
21.4
21.6
21.8
22.0
22.2
22.4
22.6
22.8
23.0
23.2
23.4
23.6
23.8
24.0
24.2

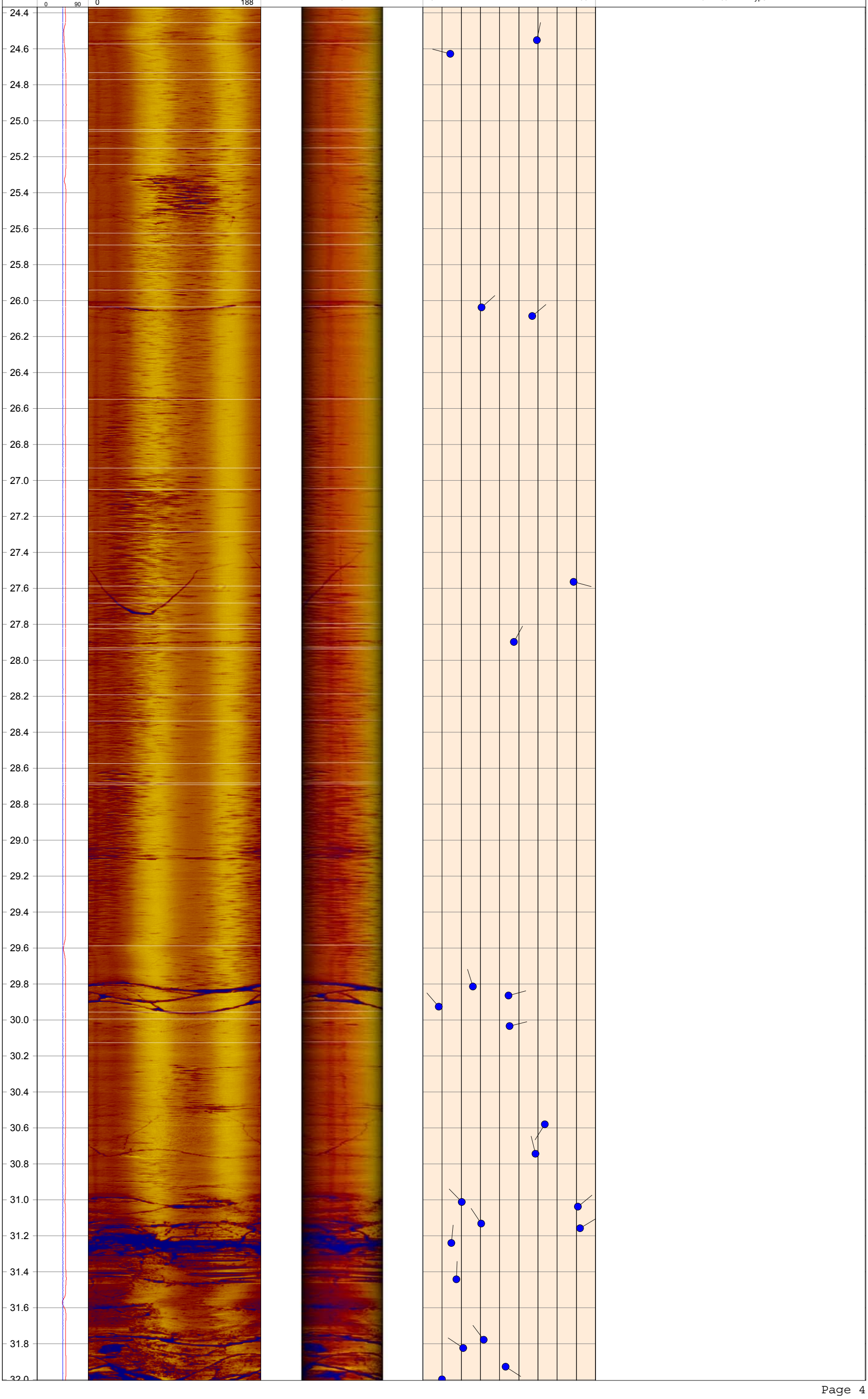
Wulff Plot - LH - Type
Depth: 5.40 [m] to 32.50 [m]
0°

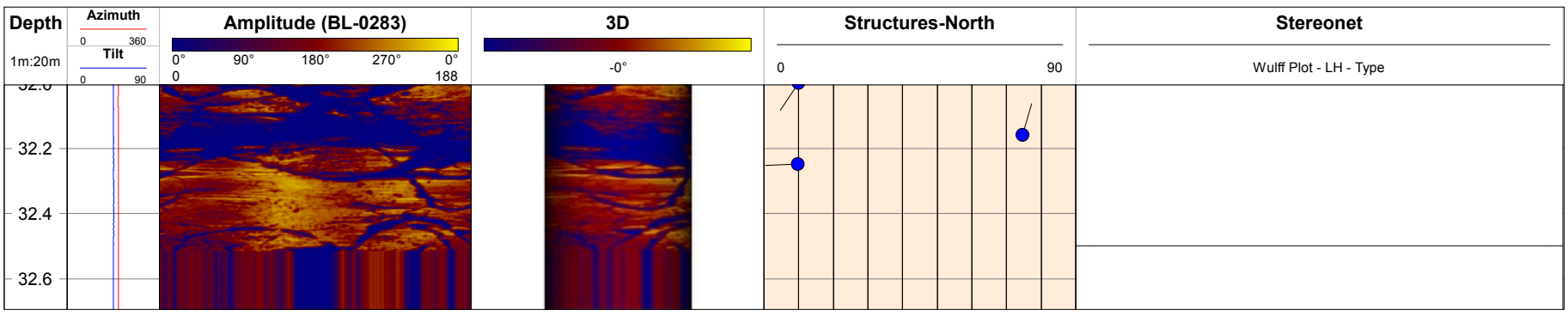


180°

	Counts	Dip[deg]	Azi[deg]
Mean	45	37.49	29.63
●	45	37.49	29.63

Depth	Azimuth	Amplitude (BL-0283)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 188			
	0 90				




Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0283)
0°
90°
180°
270°
0°
0
188
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
32.2
32.4
32.6

ACOUSTIC TELEVIEWER LOG

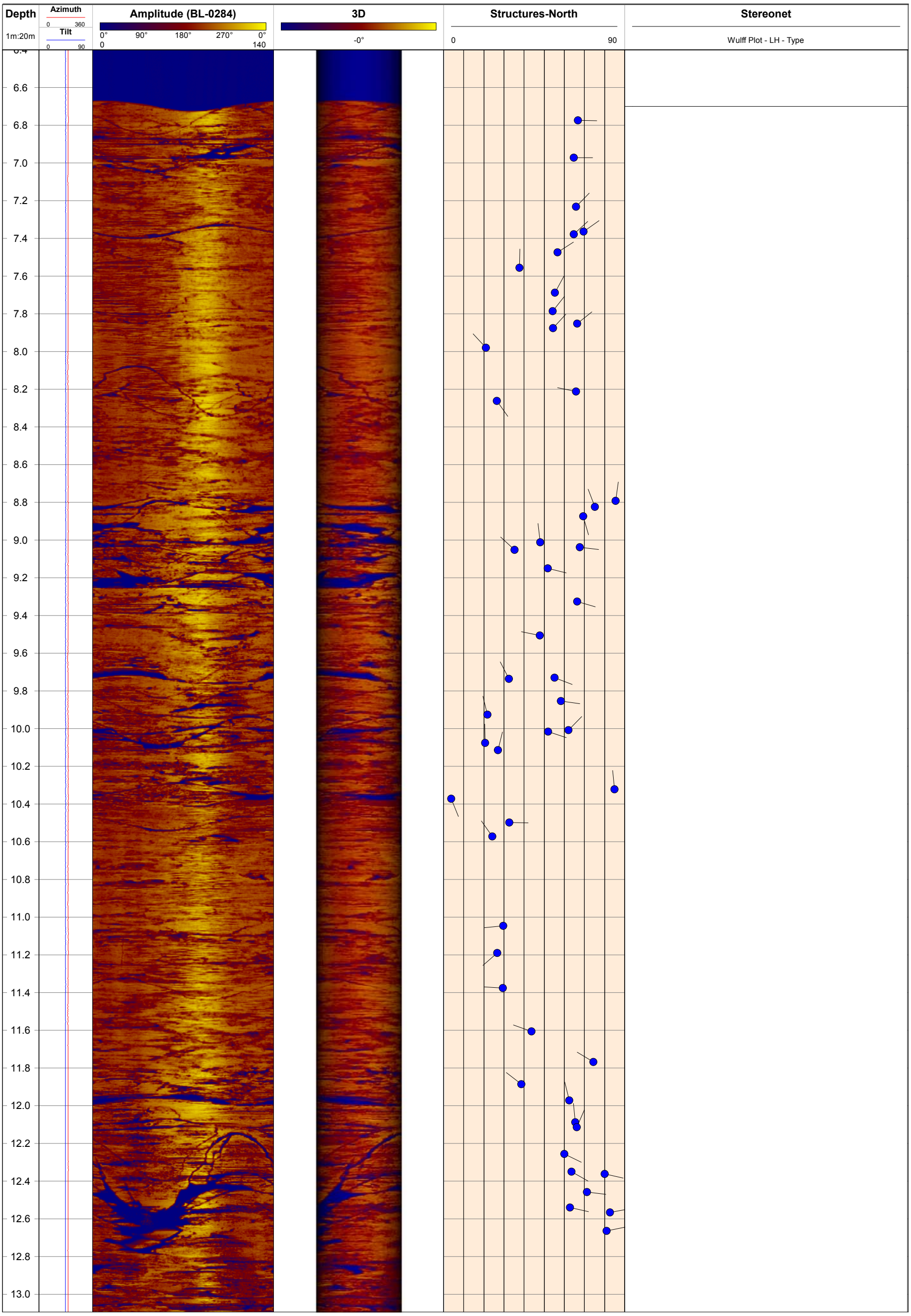
Fracflow Consultant Inc.
Environmental, Hydrogeological and
Geotechnical Engineering Consultants

Project Location:	**Springpole, ON**	***Easting:***	**548827.7**
Borehole ID:	**BL-0284**	***Northing:***	**5694192.0**
Report Date:	**December 2019**	***Bearing at the collar:***	**198**
Logging Date:	**August 22, 2019**	***Plunge at the collar:***	**-50**
Logging Depth (m):	**82.4**	***Borehole Depth (m):***	**84.43**

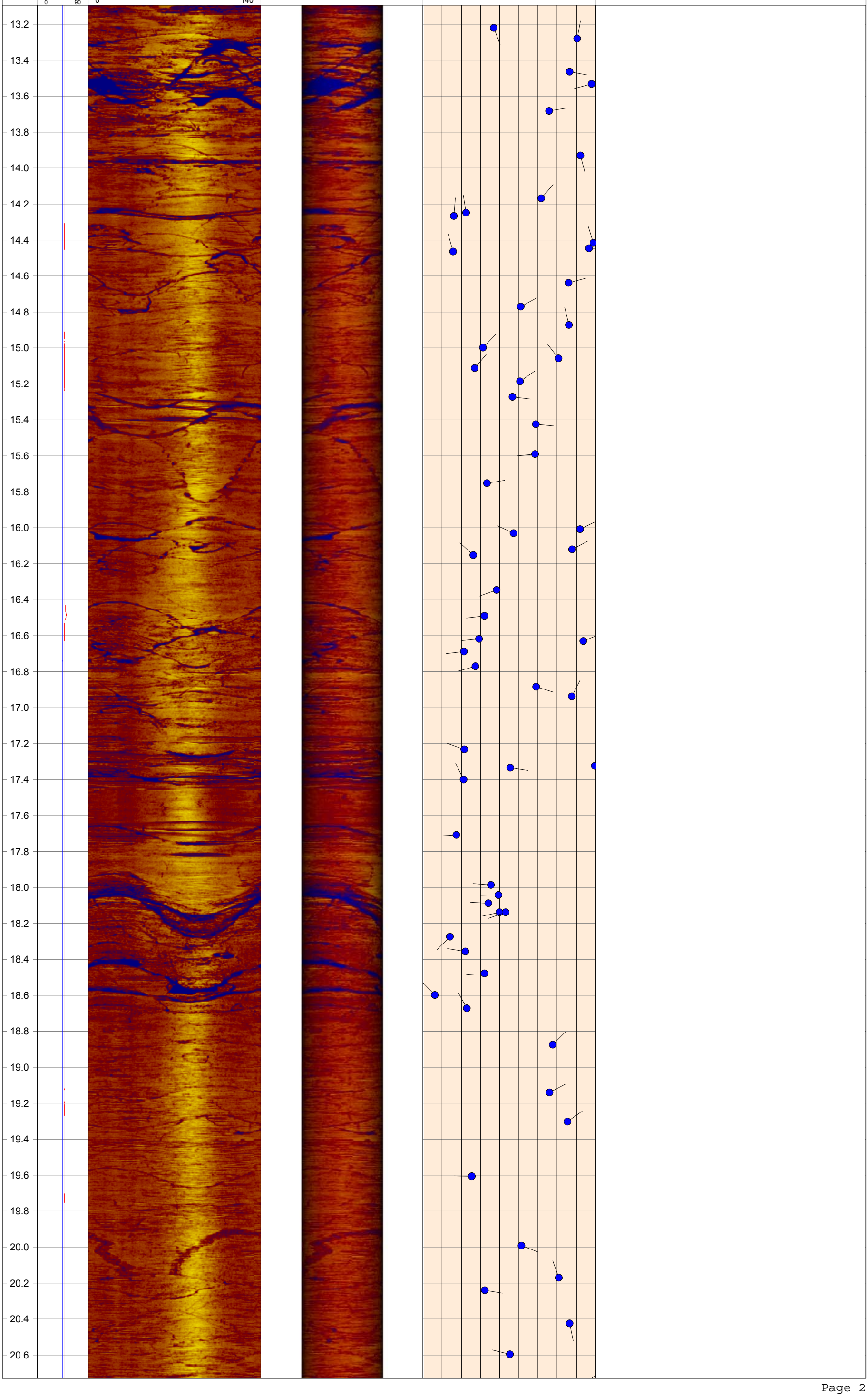
Client: **First Mining Gold / Gold Canyon Resources**

FFC Reference No: **FFC-NL-3134-002**

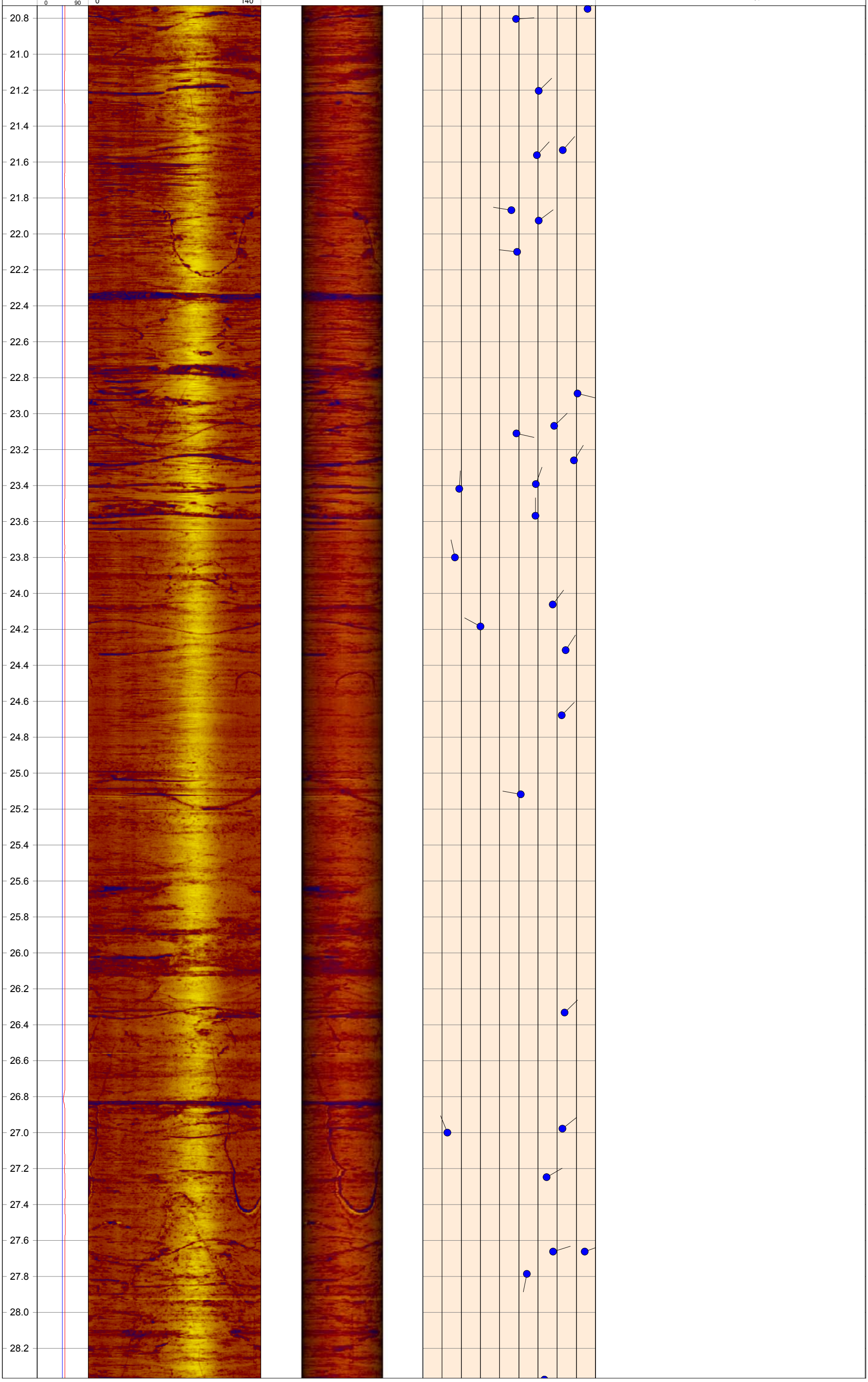
Figure No.: **D17**



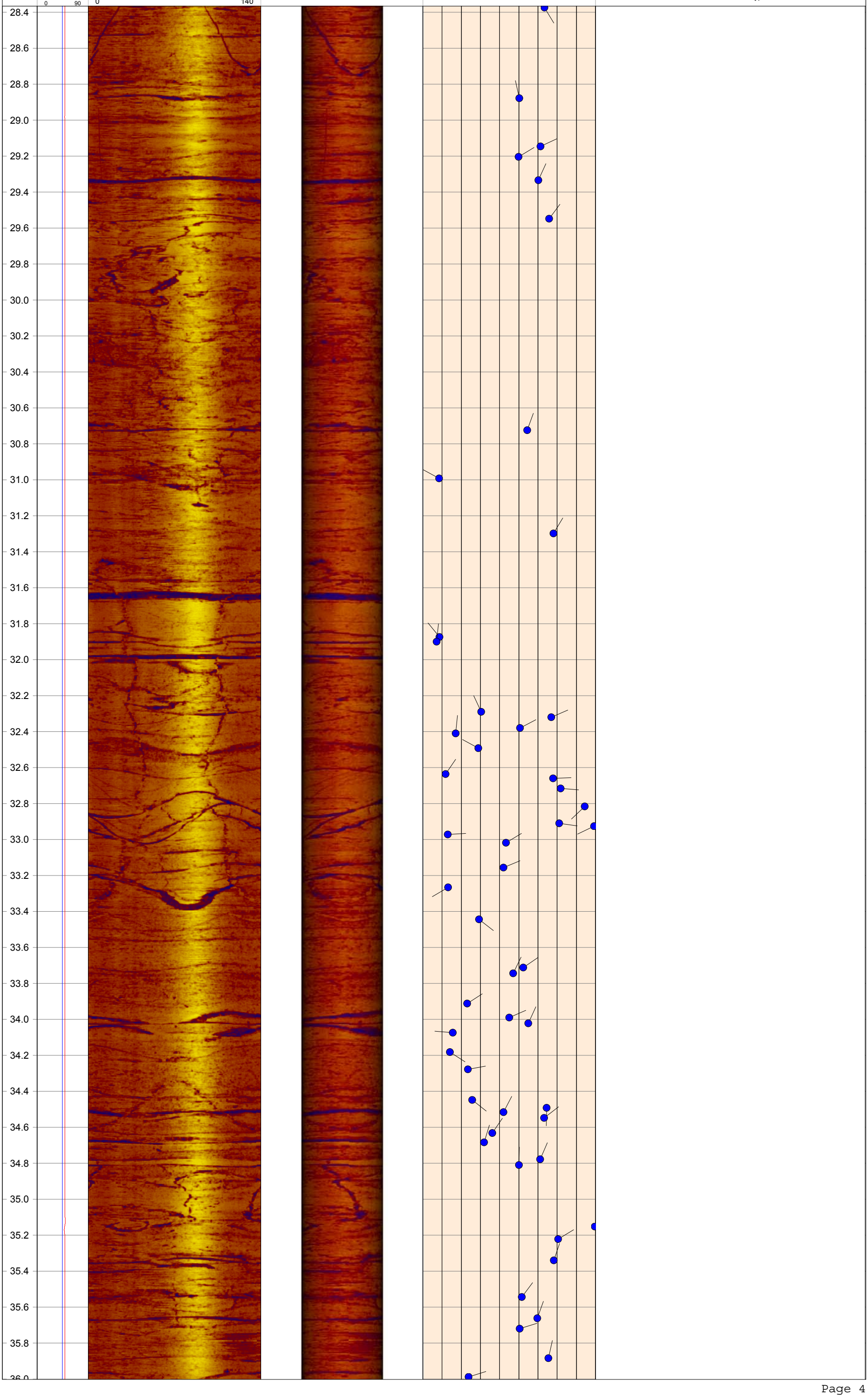
Depth	Azimuth	Amplitude (BL-0284)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



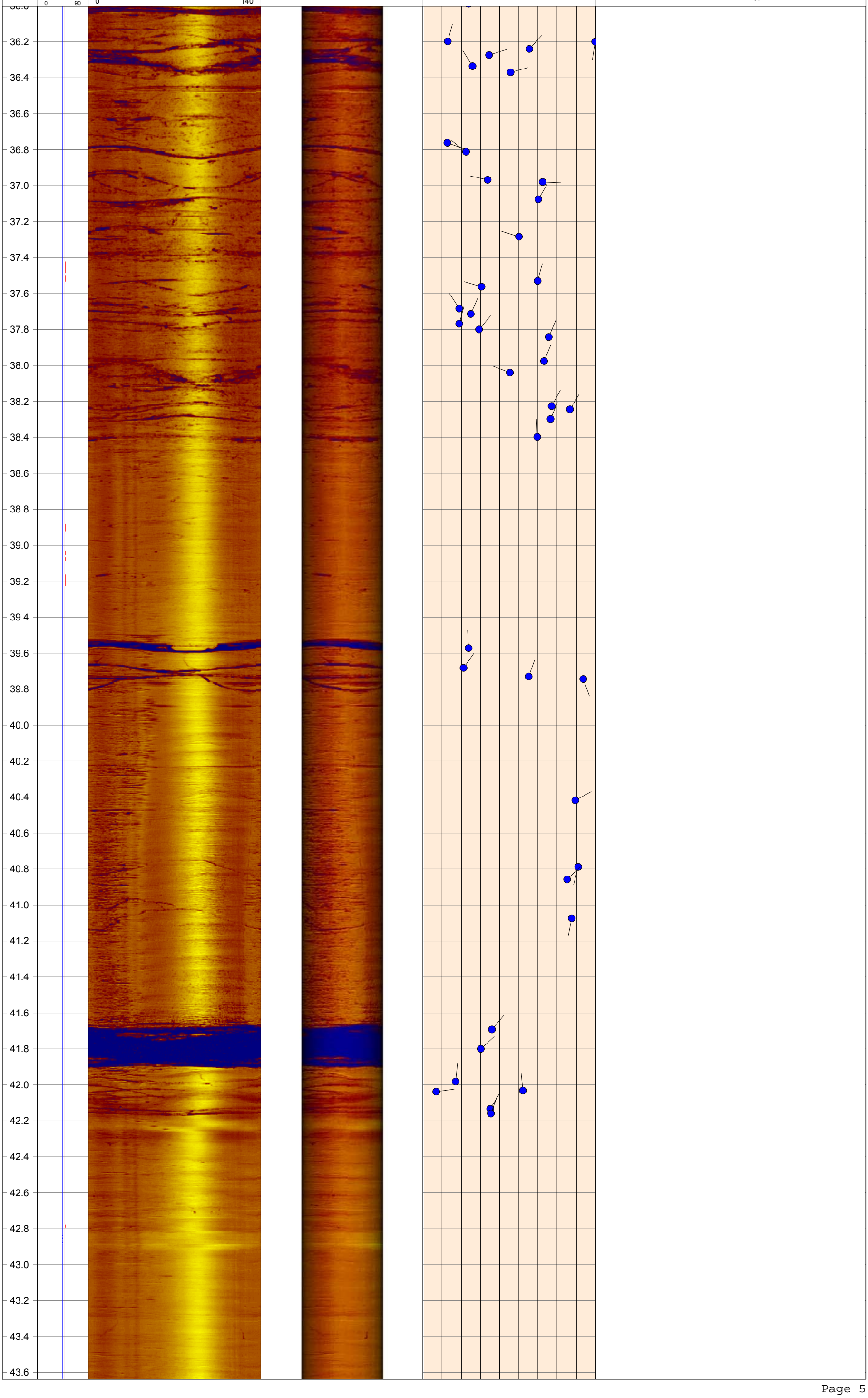
Depth	Azimuth	Amplitude (BL-0284)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				

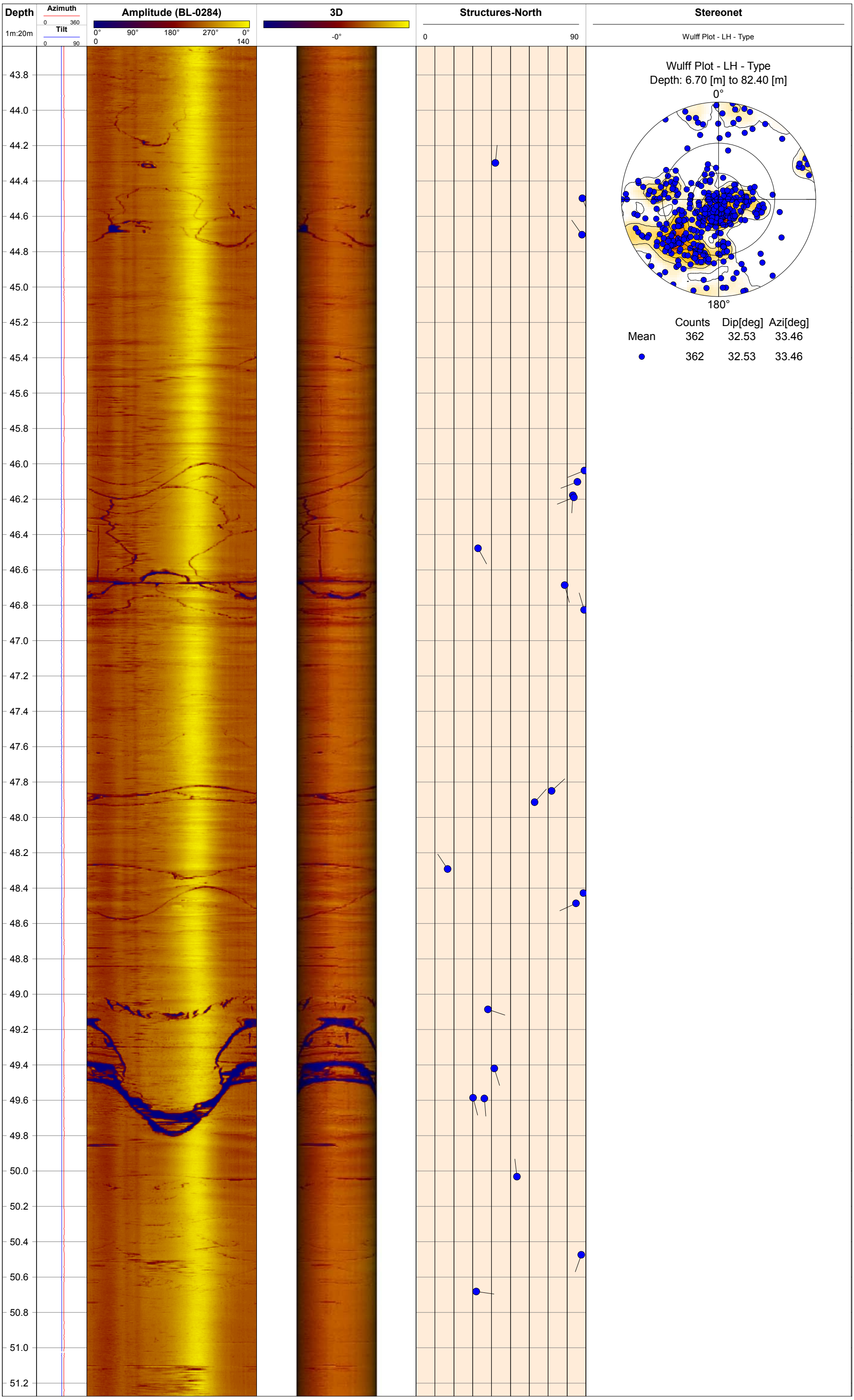


Depth	Azimuth	Amplitude (BL-0284)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				

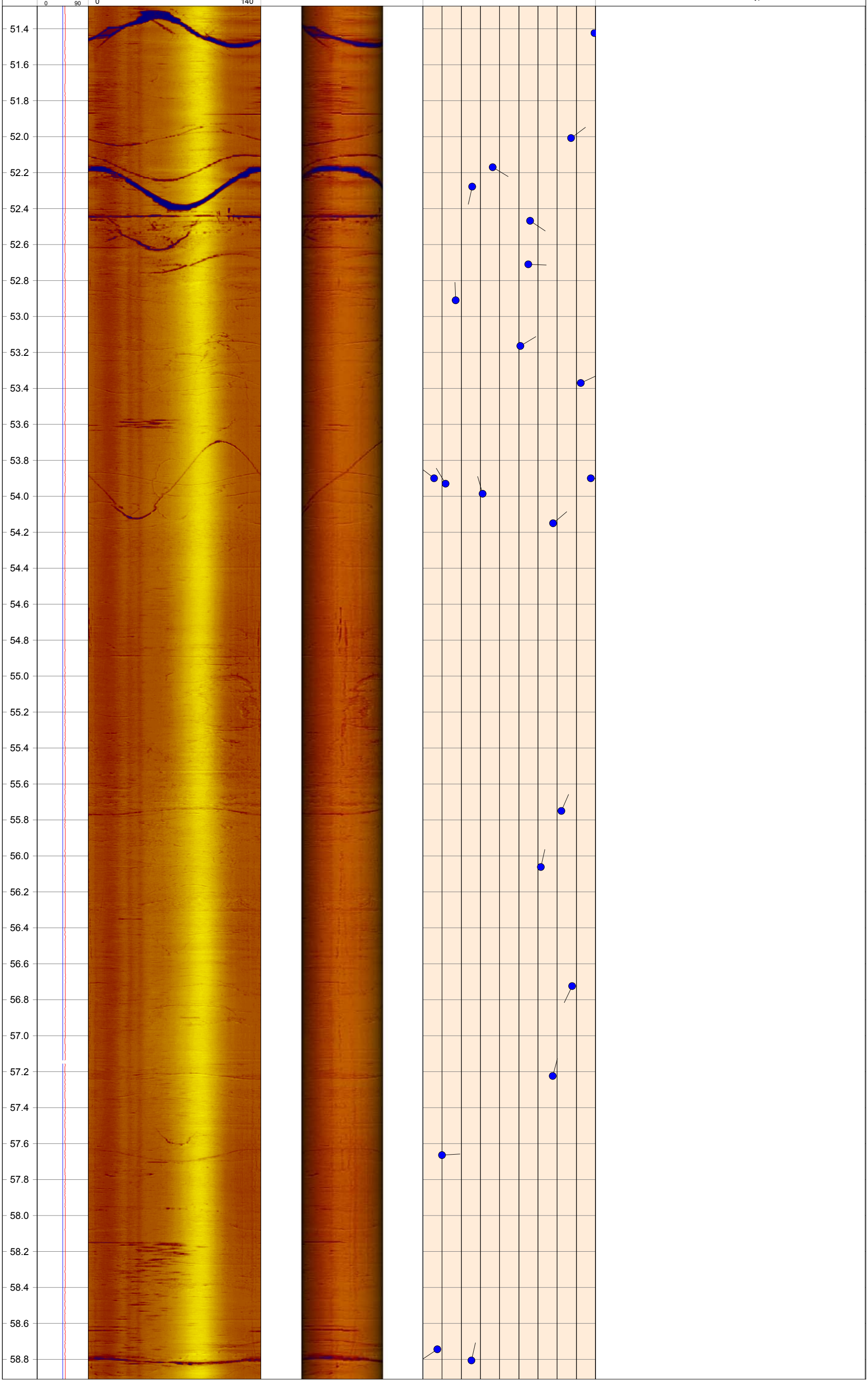


Depth	Azimuth	Amplitude (BL-0284)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				

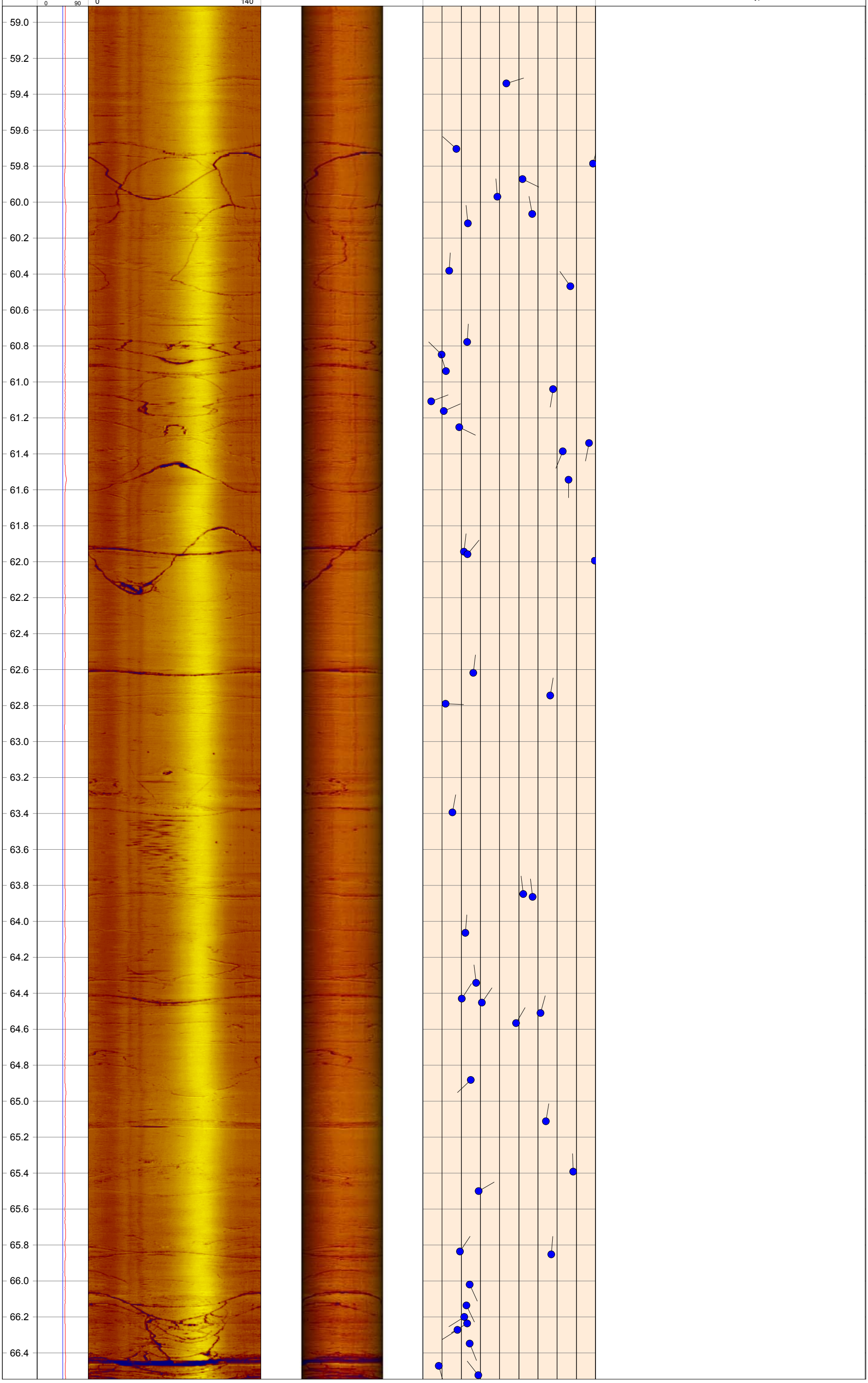



Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0284)
0°
90°
180°
270°
0°
0
140
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
Wulff Plot - LH - Type
Depth: 6.70 [m] to 82.40 [m]
0°
180°
Counts
Dip[deg]
Azi[deg]
Mean
362
32.53
33.46
362
32.53
33.46
43.8
44.0
44.2
44.4
44.6
44.8
45.0
45.2
45.4
45.6
45.8
46.0
46.2
46.4
46.6
46.8
47.0
47.2
47.4
47.6
47.8
48.0
48.2
48.4
48.6
48.8
49.0
49.2
49.4
49.6
49.8
50.0
50.2
50.4
50.6
50.8
51.0
51.2

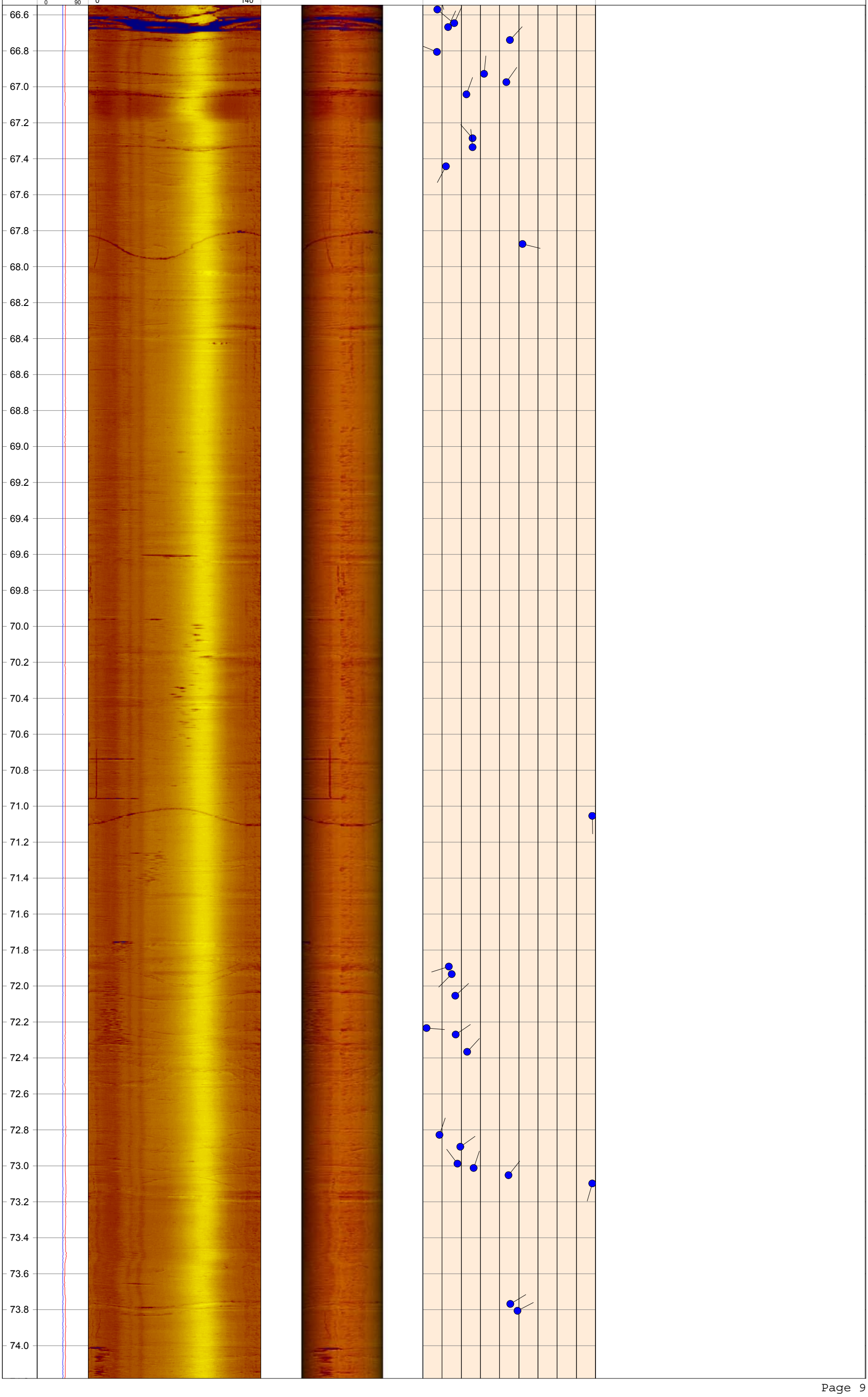
Depth	Azimuth	Amplitude (BL-0284)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



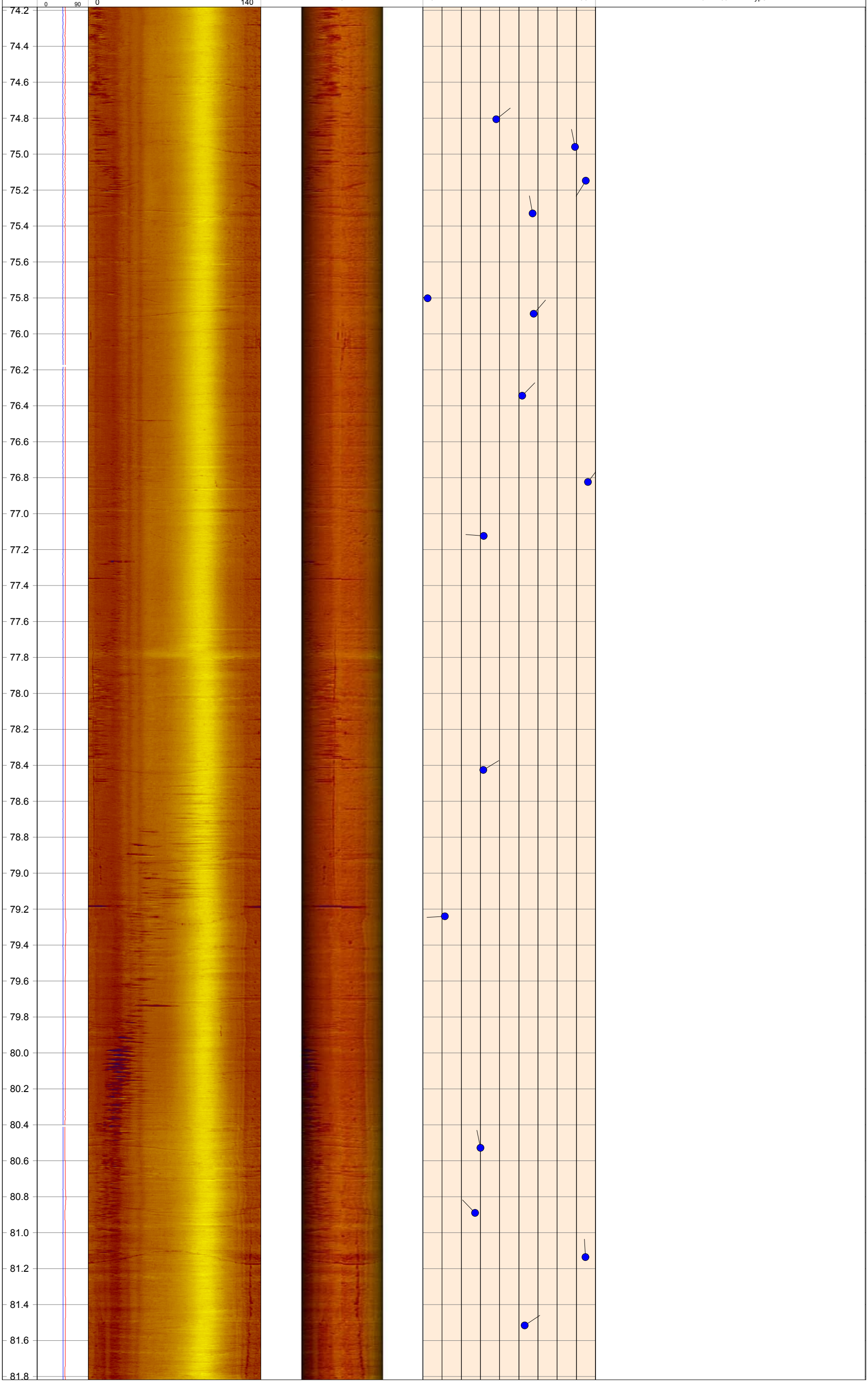
Depth	Azimuth	Amplitude (BL-0284)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				

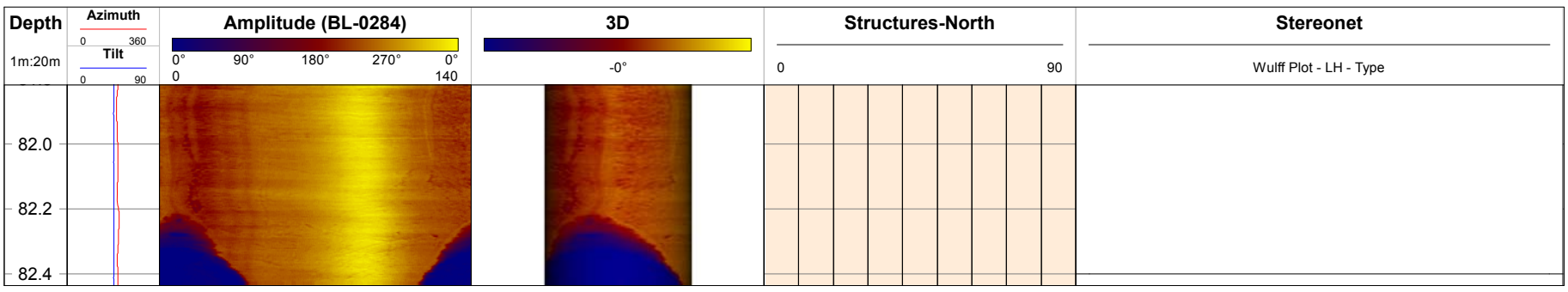


Depth	Azimuth	Amplitude (BL-0284)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



Depth	Azimuth	Amplitude (BL-0284)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				




Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0284)
0°
90°
180°
270°
0°
0
140
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
82.0
82.2
82.4

ACOUSTIC TELEVIEWER LOG

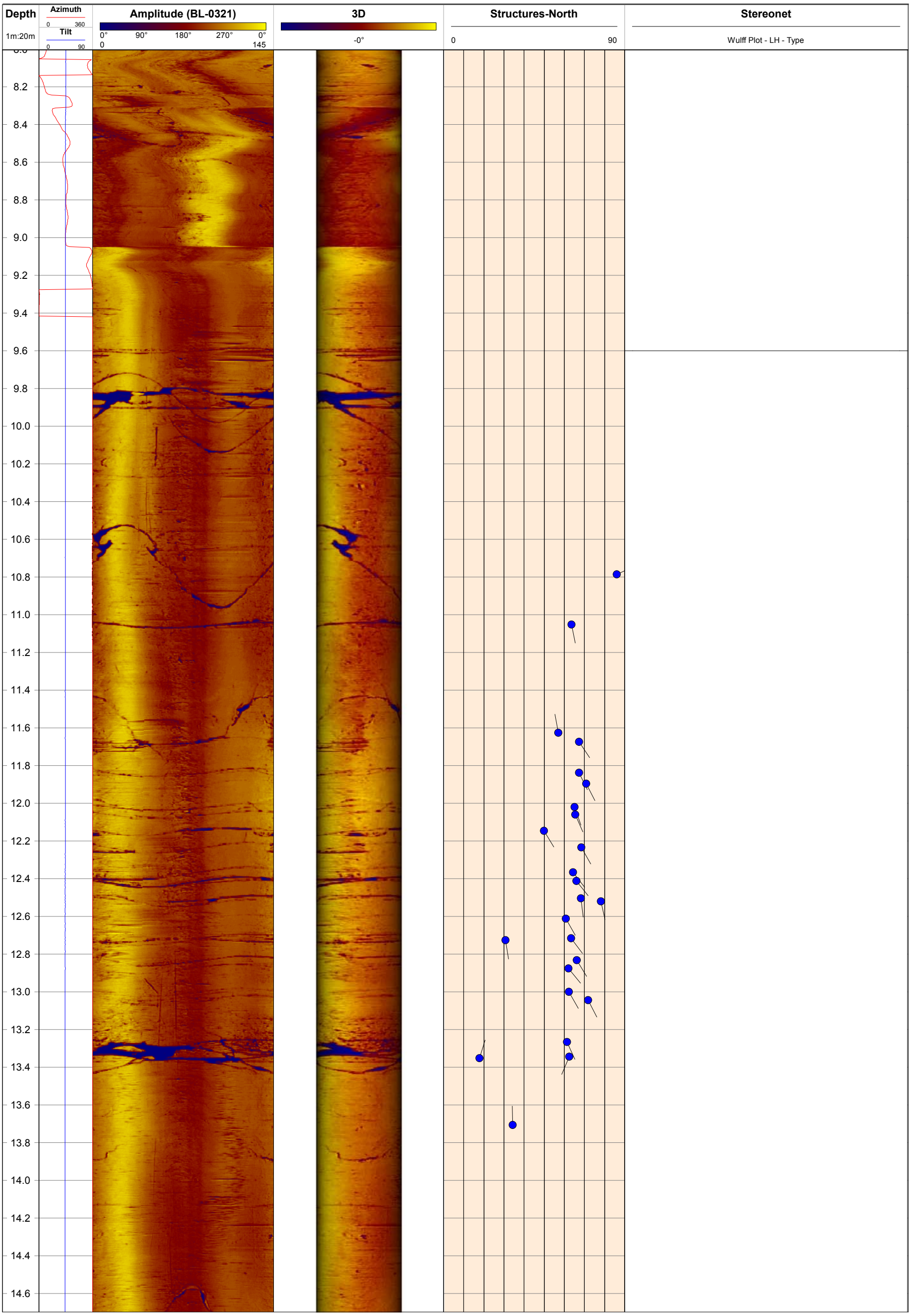
Fracflow Consultant Inc.
Environmental, Hydrogeological and
Geotechnical Engineering Consultants

Project Location:	**Springpole, ON**	***Easting:***	**548908.7**
Borehole ID:	**BL-0321**	***Northing:***	**5693707.6**
Report Date:	**December 2019**	***Bearing at the collar:***	**036**
Logging Date:	**September 24, 2019**	***Plunge at the collar:***	**-45**
Logging Depth (m):	**223.8**	***Borehole Depth (m):***	**228**

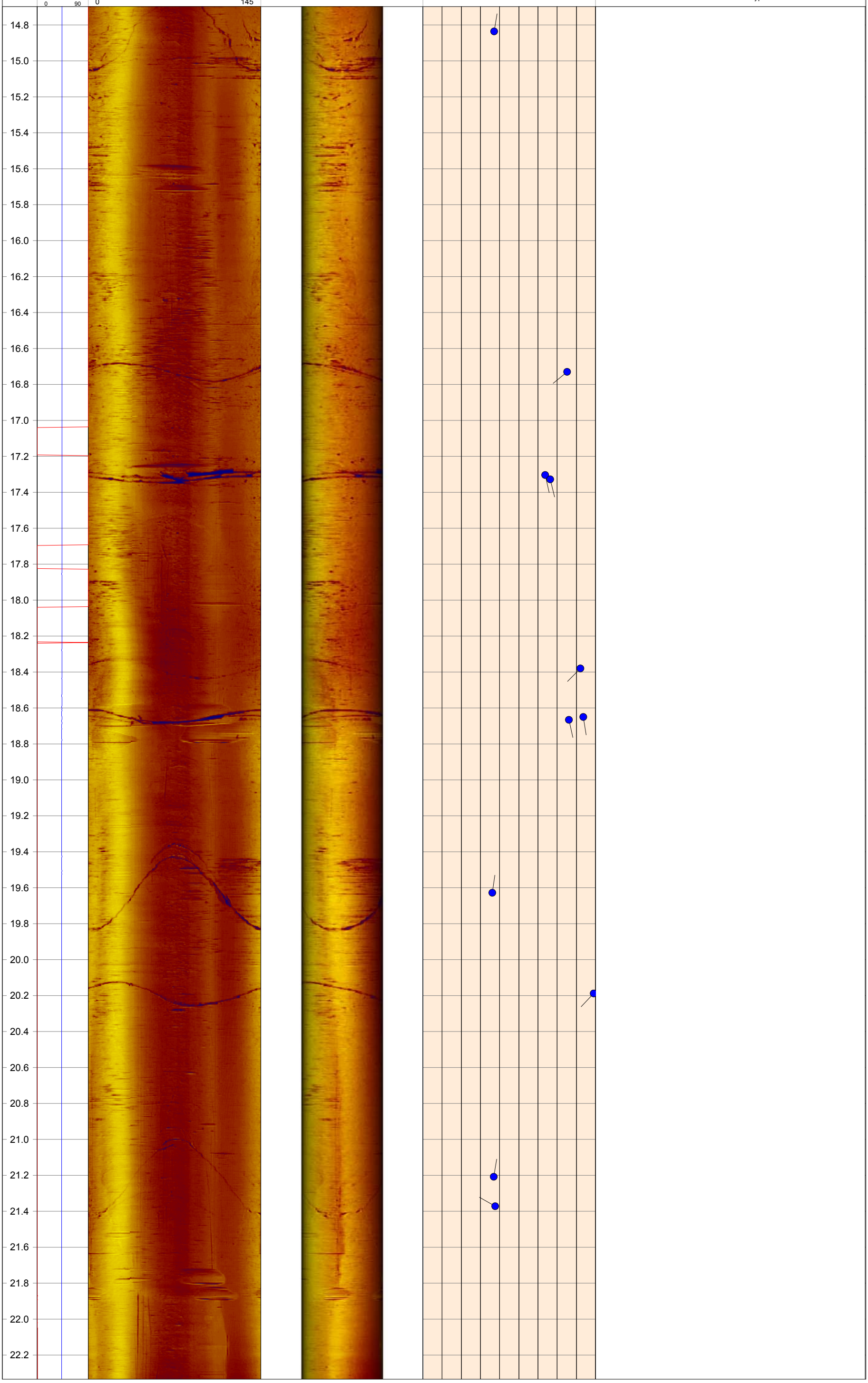
Client: **First Mining Gold / Gold Canyon Resources**

FFC Reference No: **FFC-NL-3134-002**

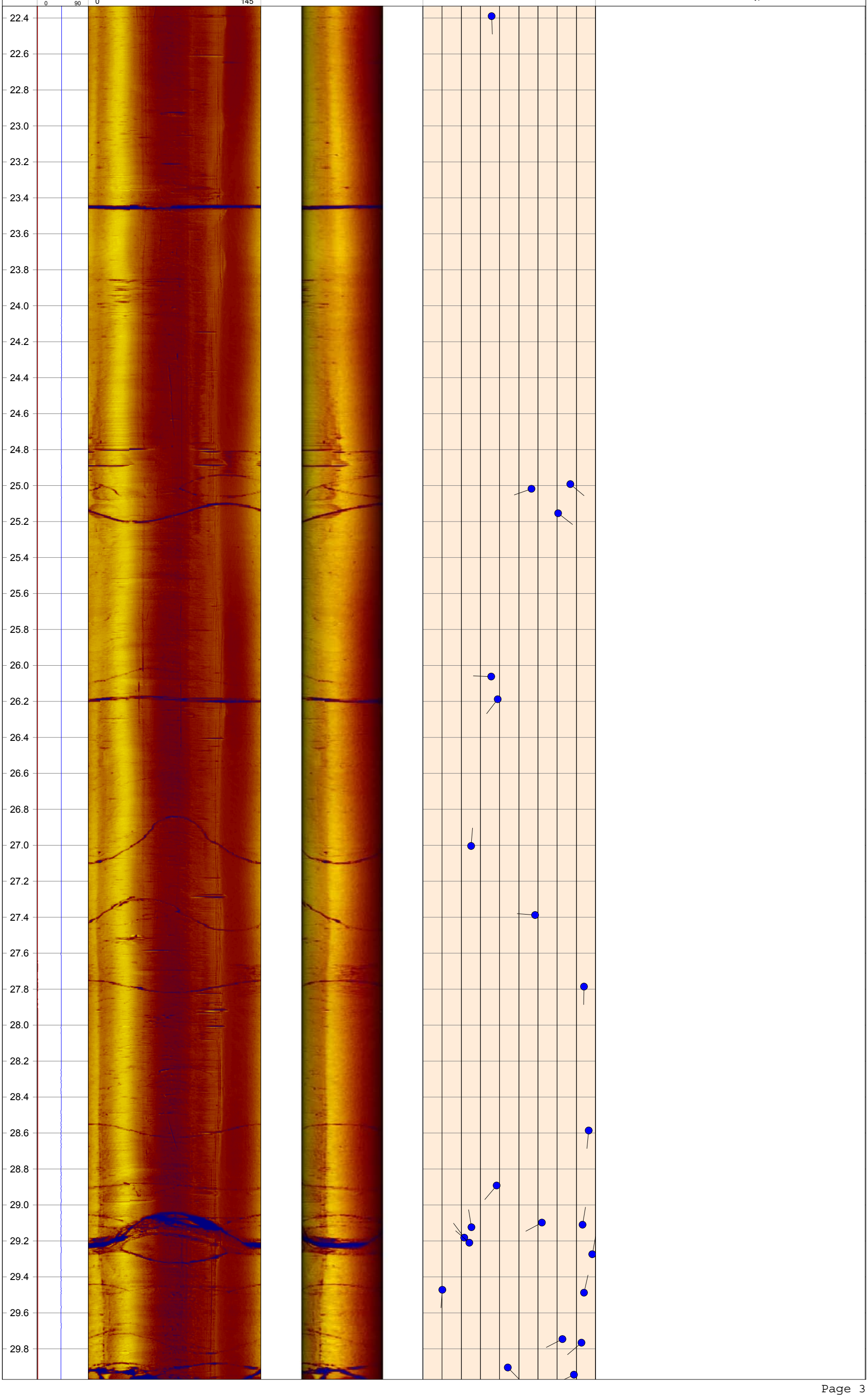
Figure No.: **D18**



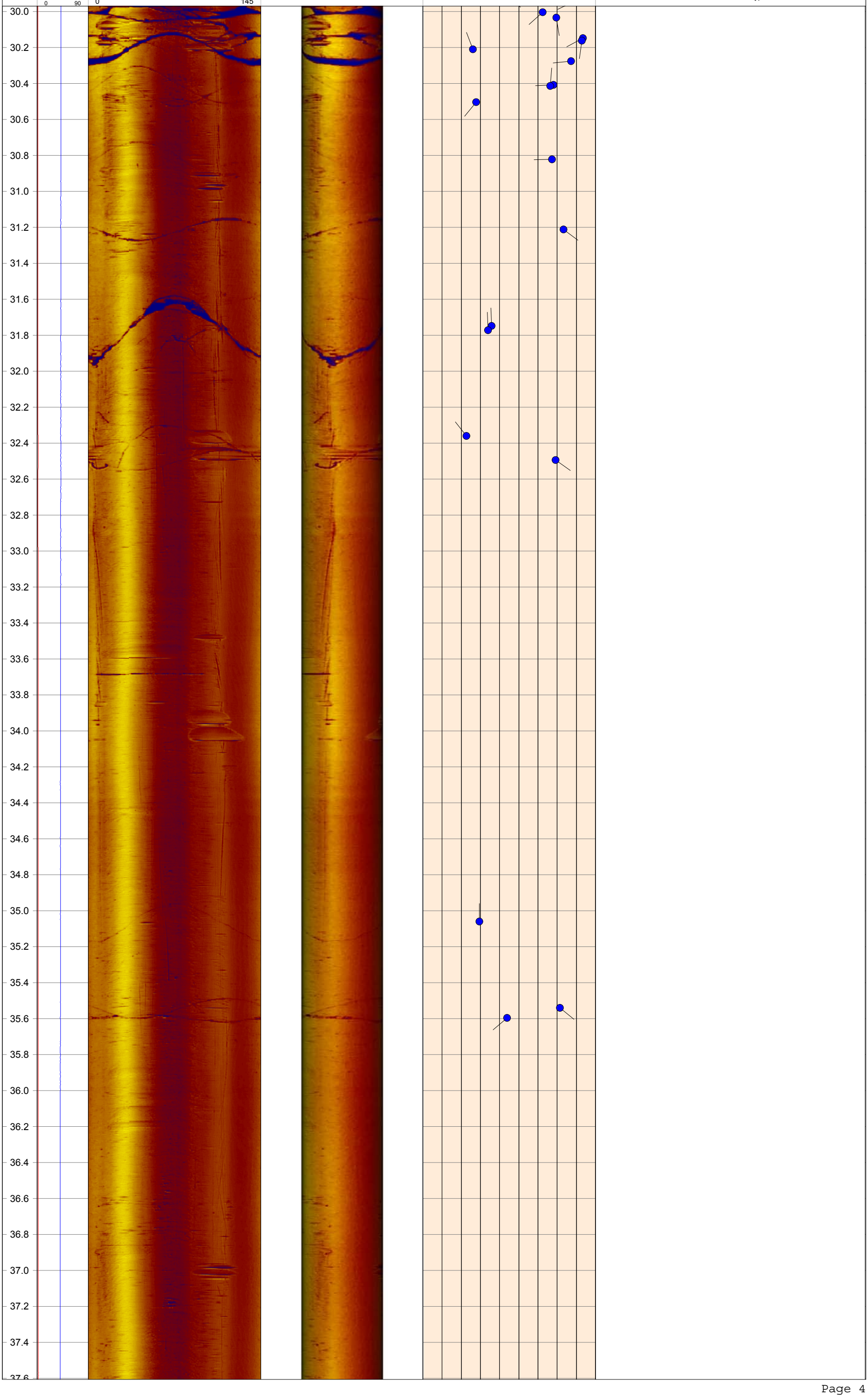
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



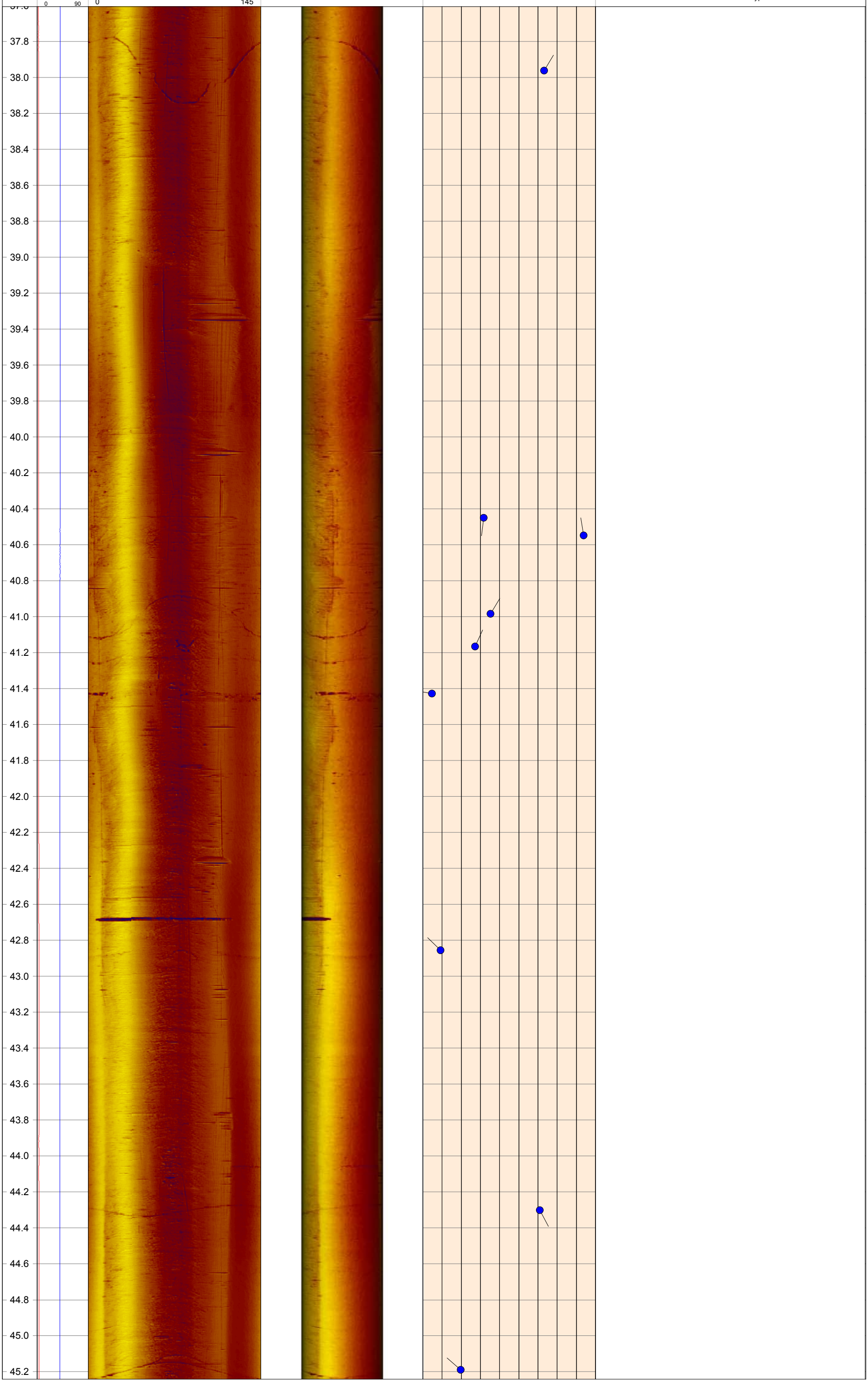
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



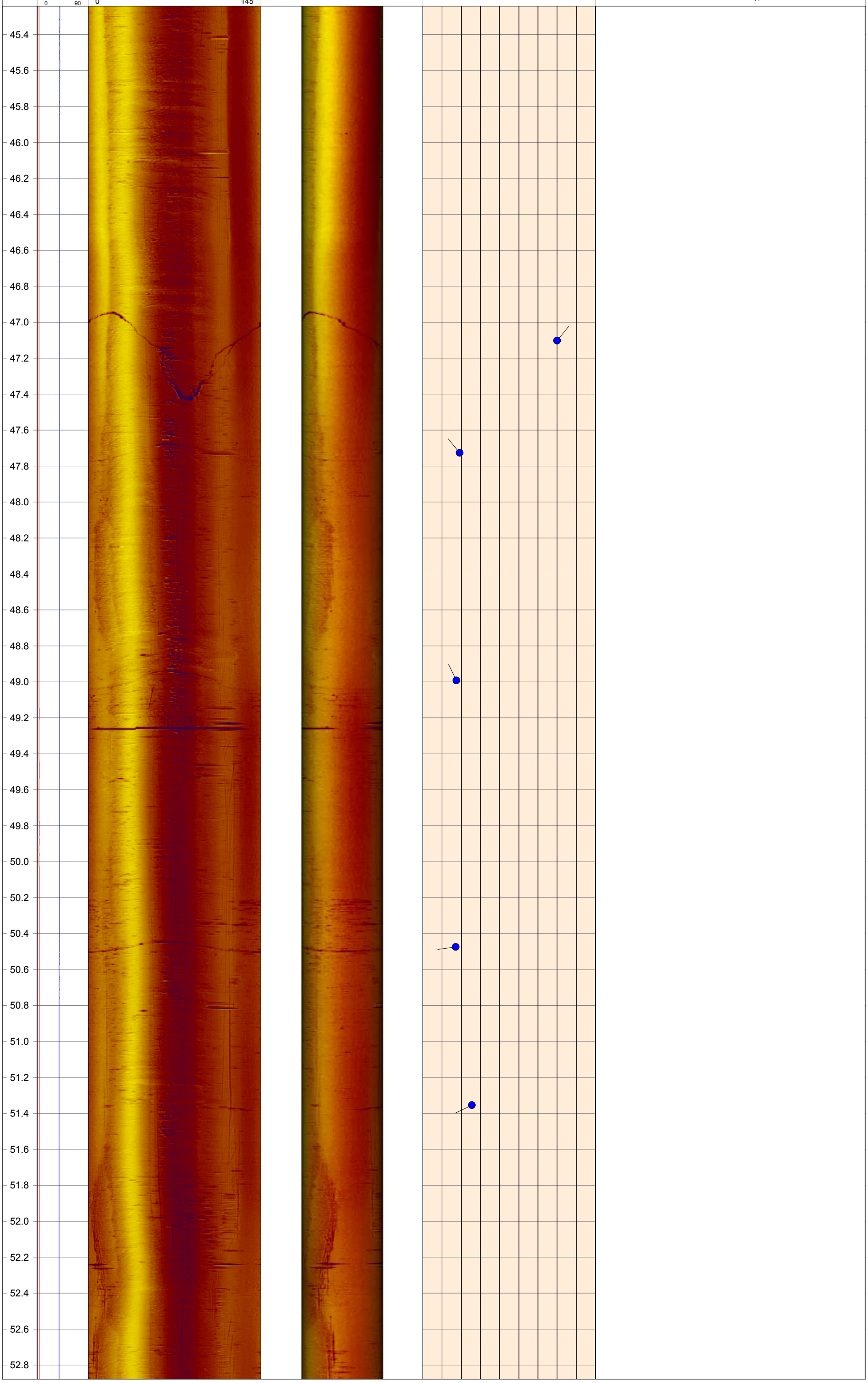
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



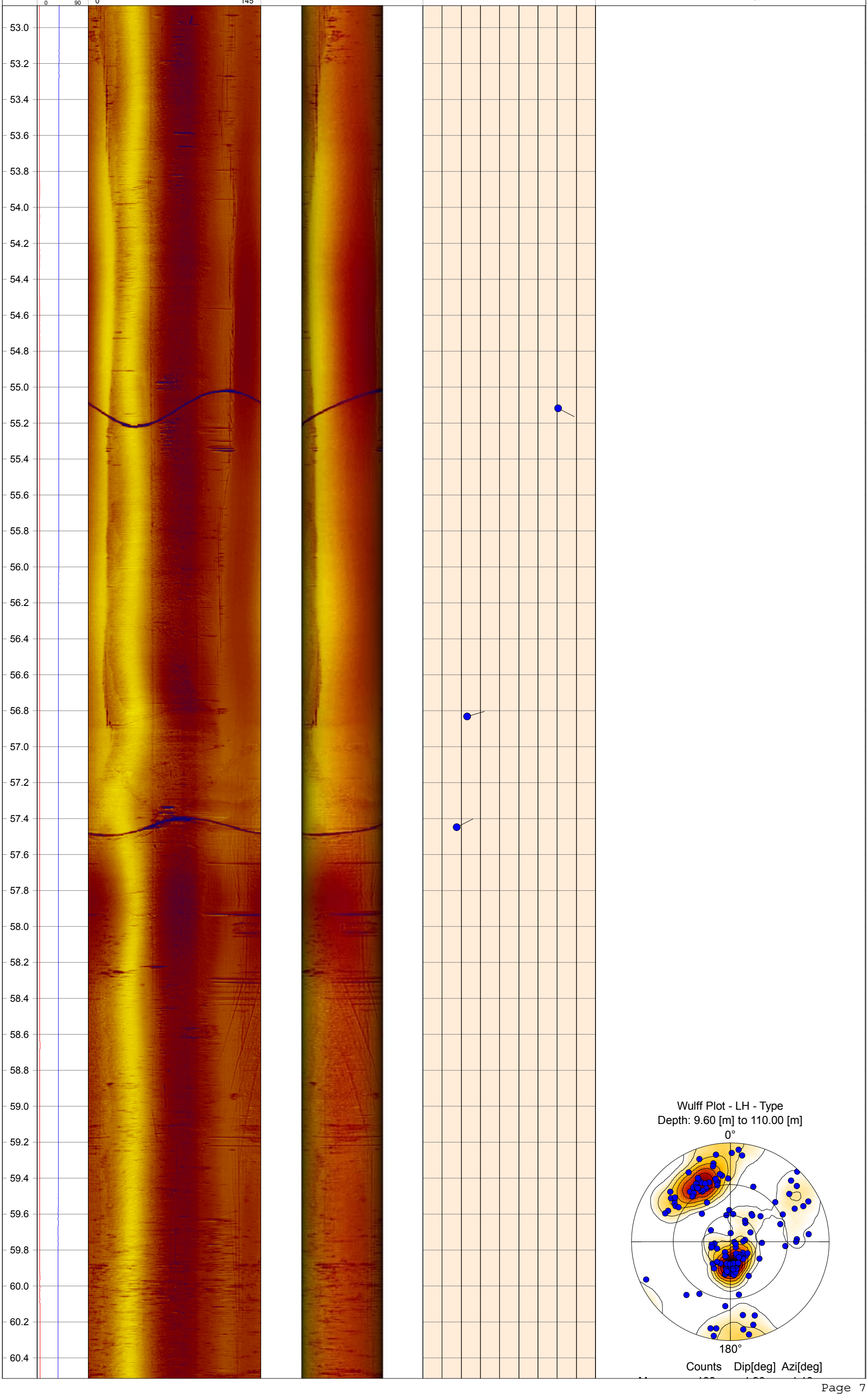
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



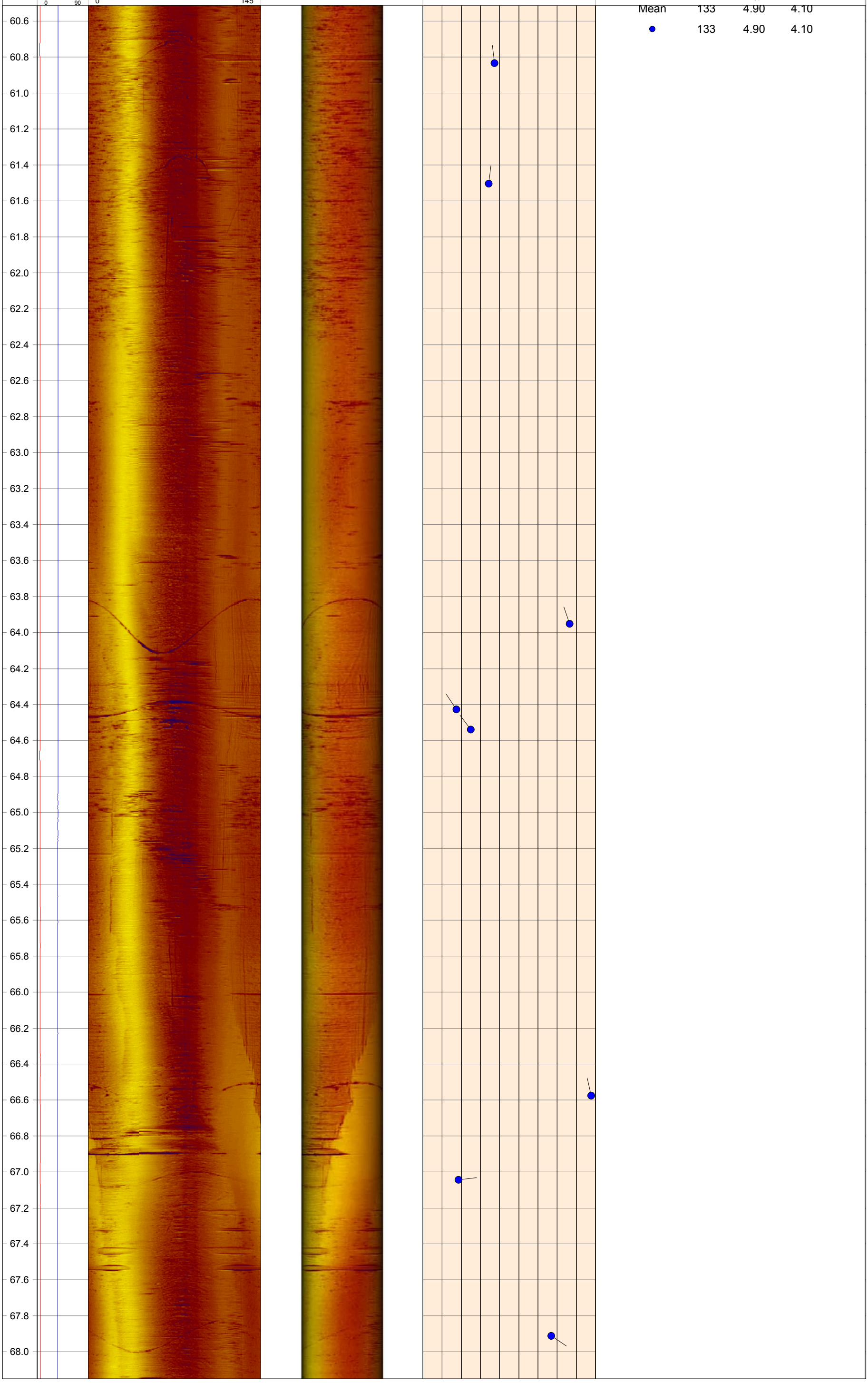
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				

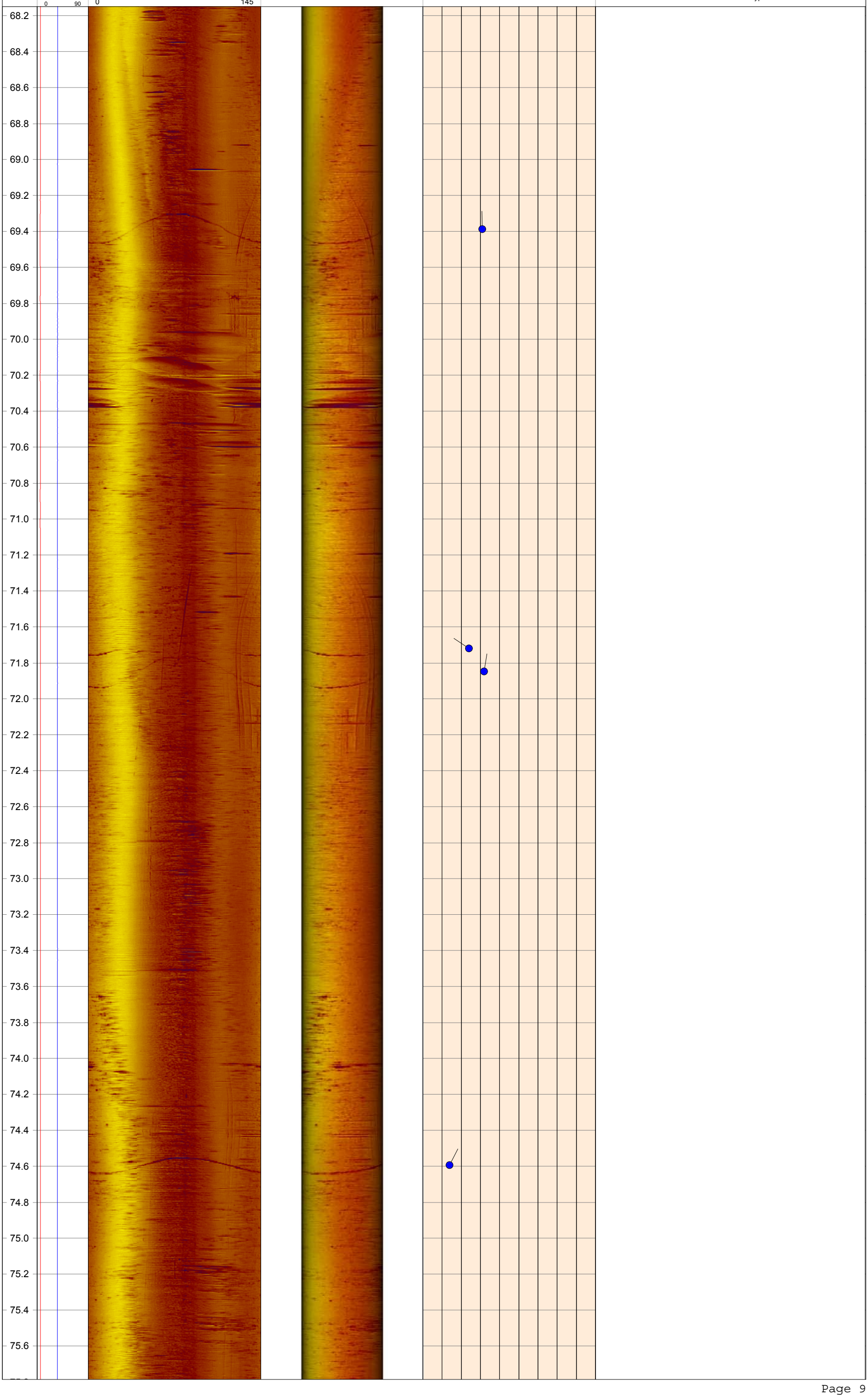


Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				

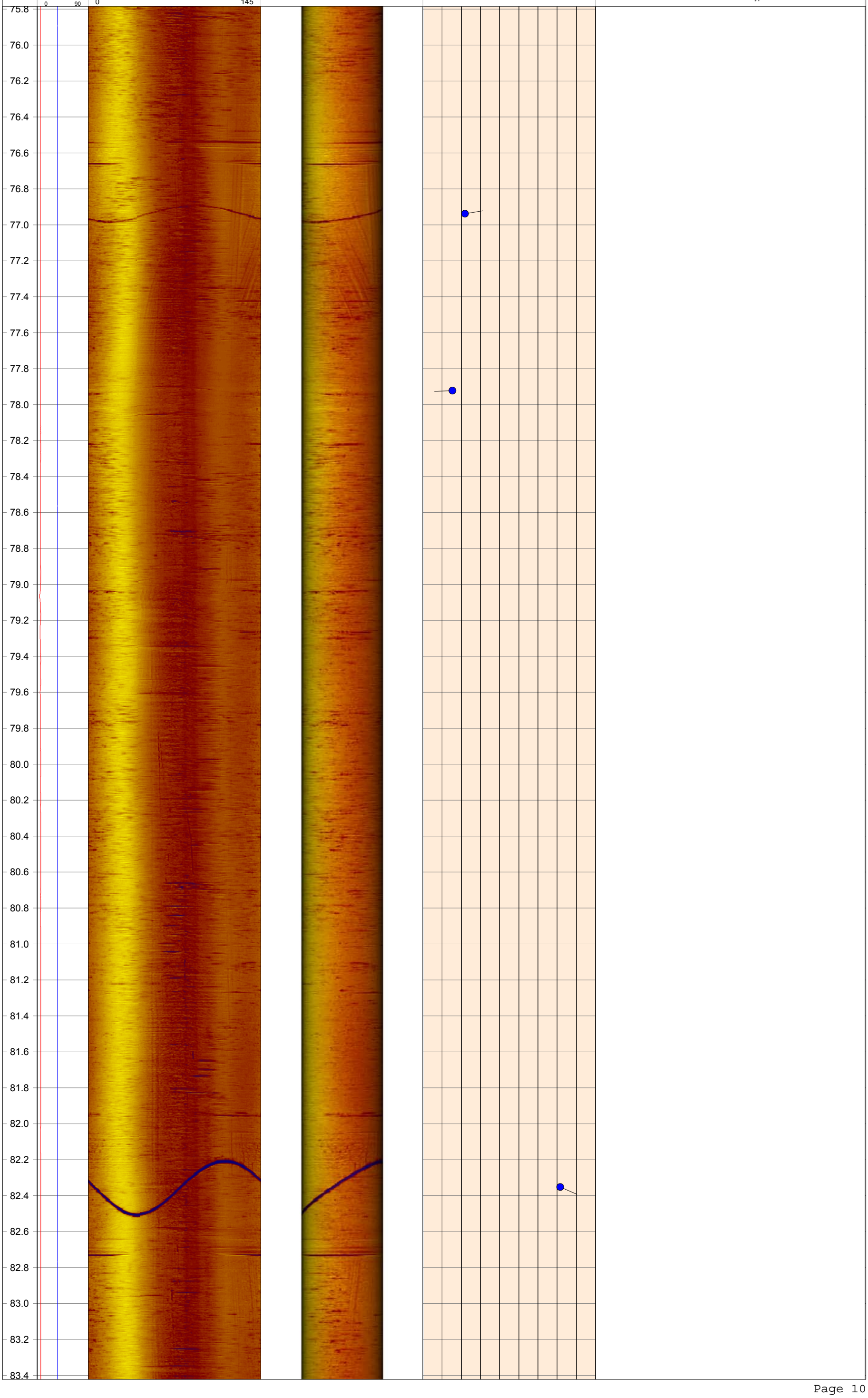


Mean	133	4.90	4.10
	133	4.90	4.10

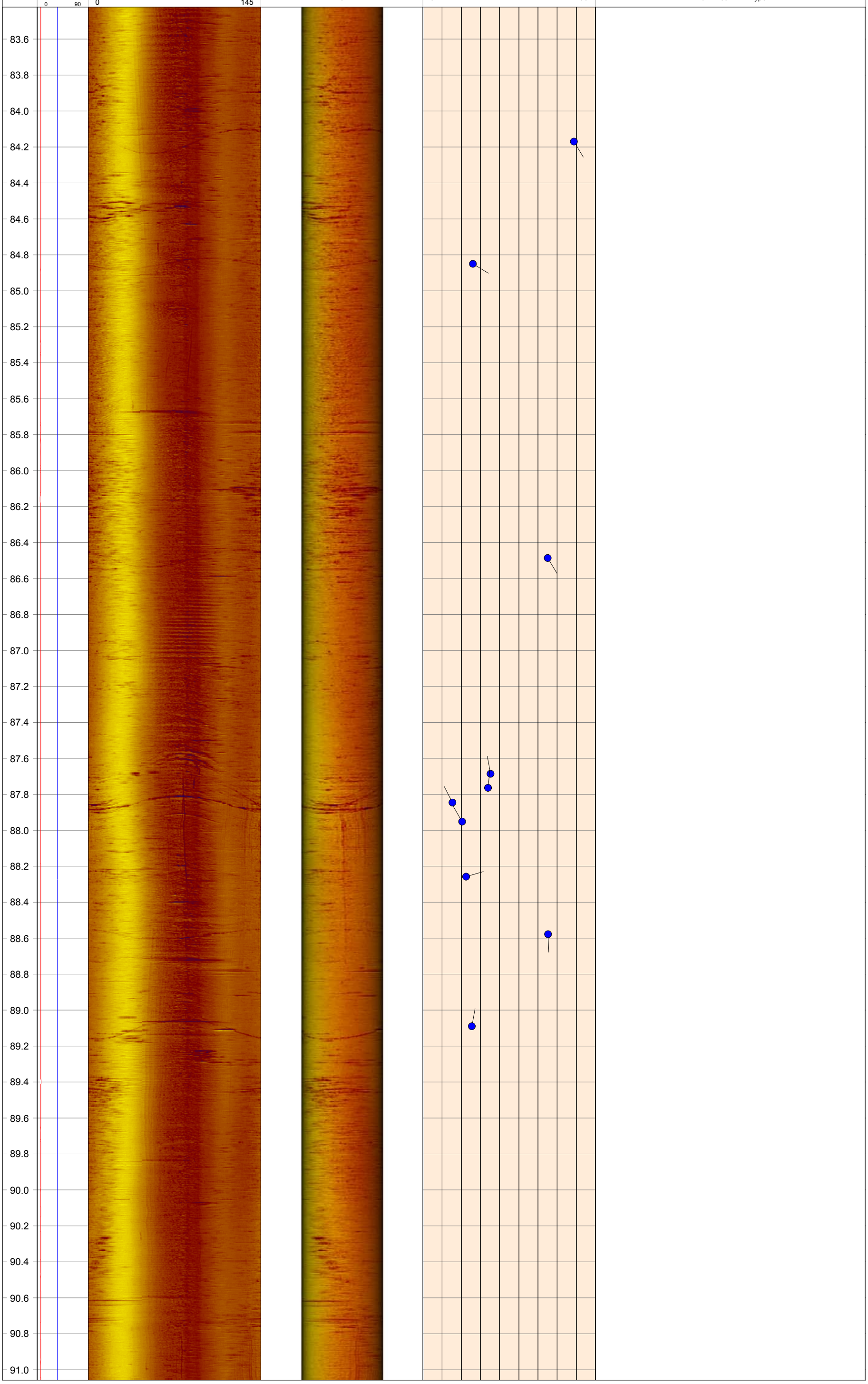
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



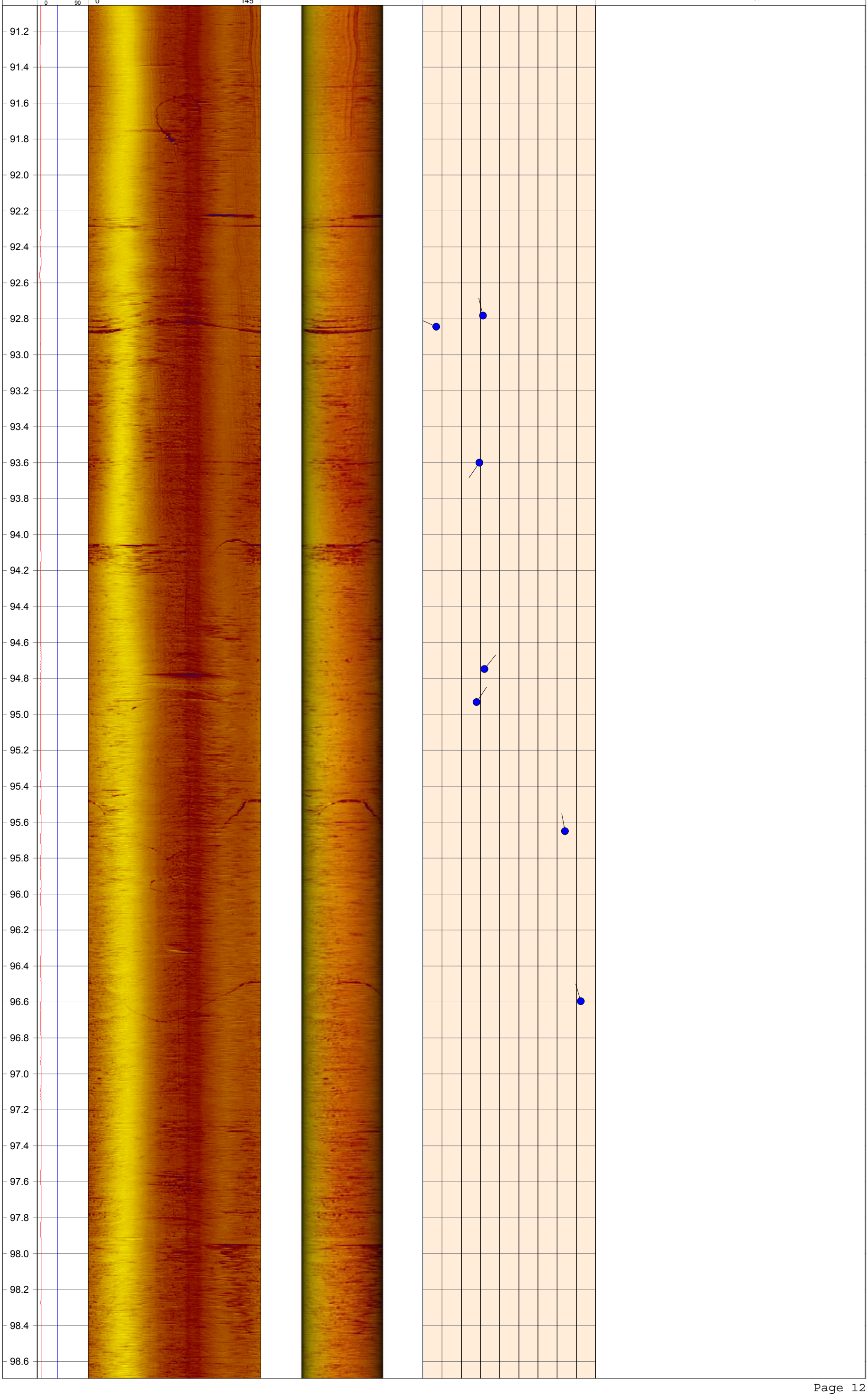
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



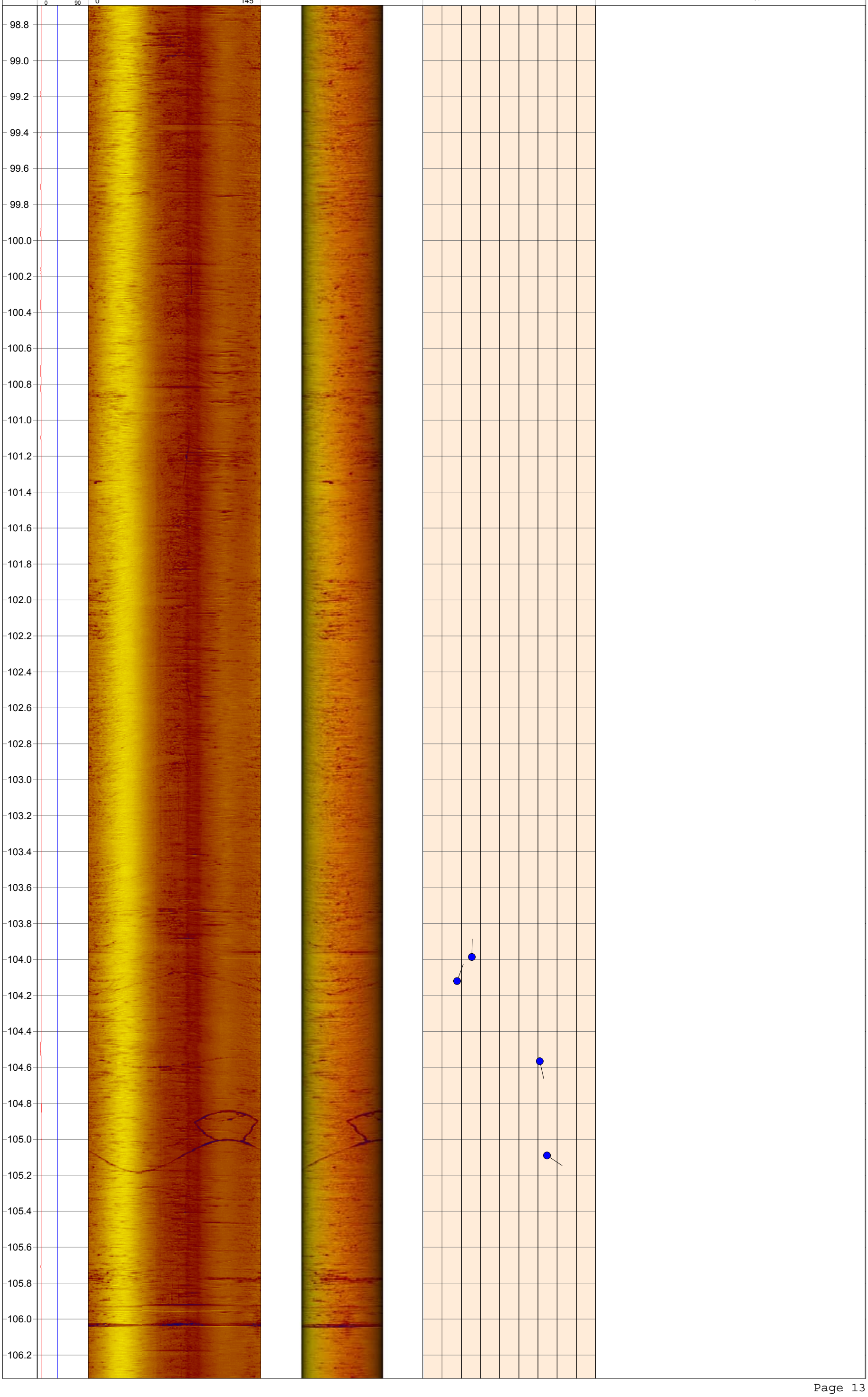
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



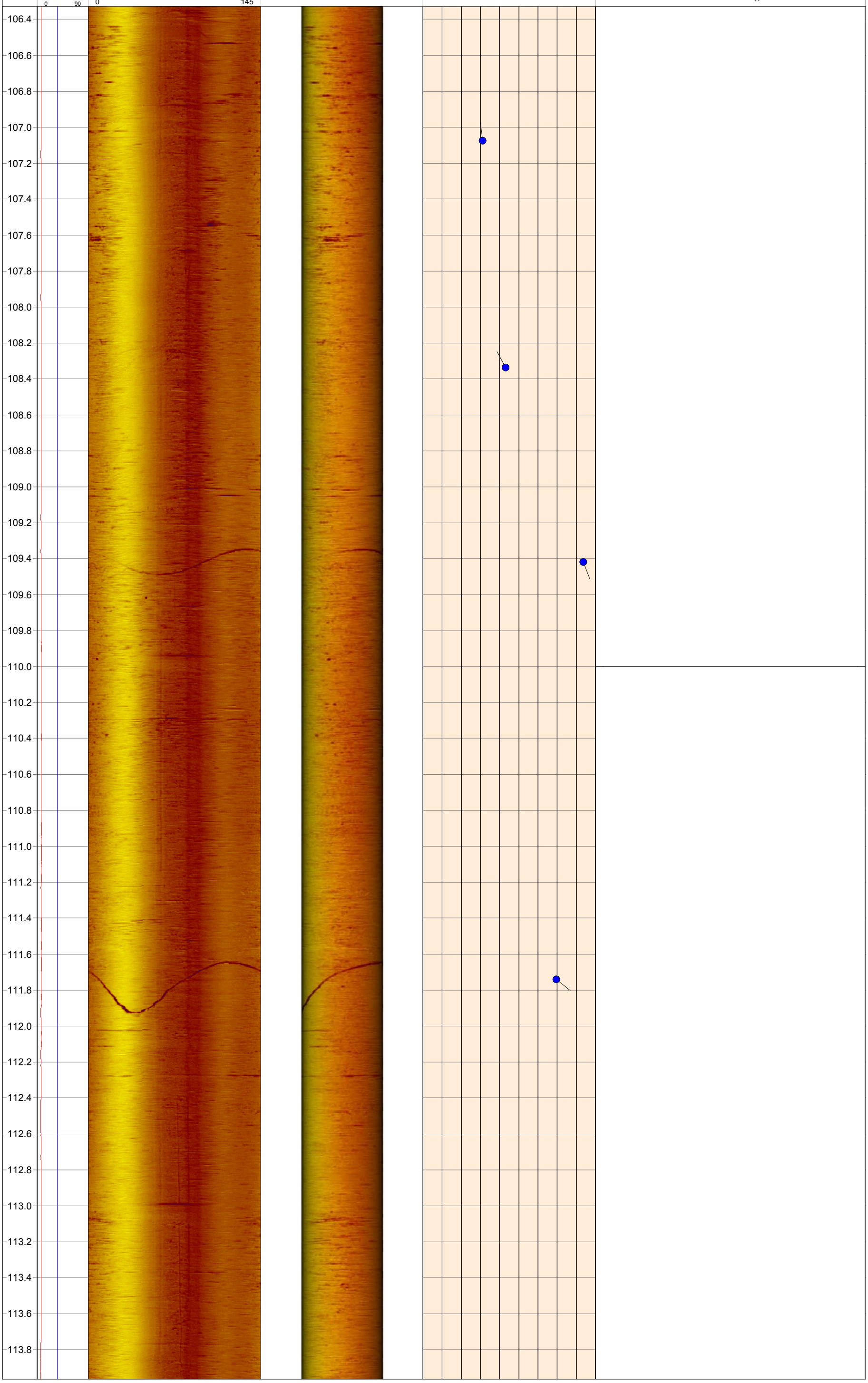
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



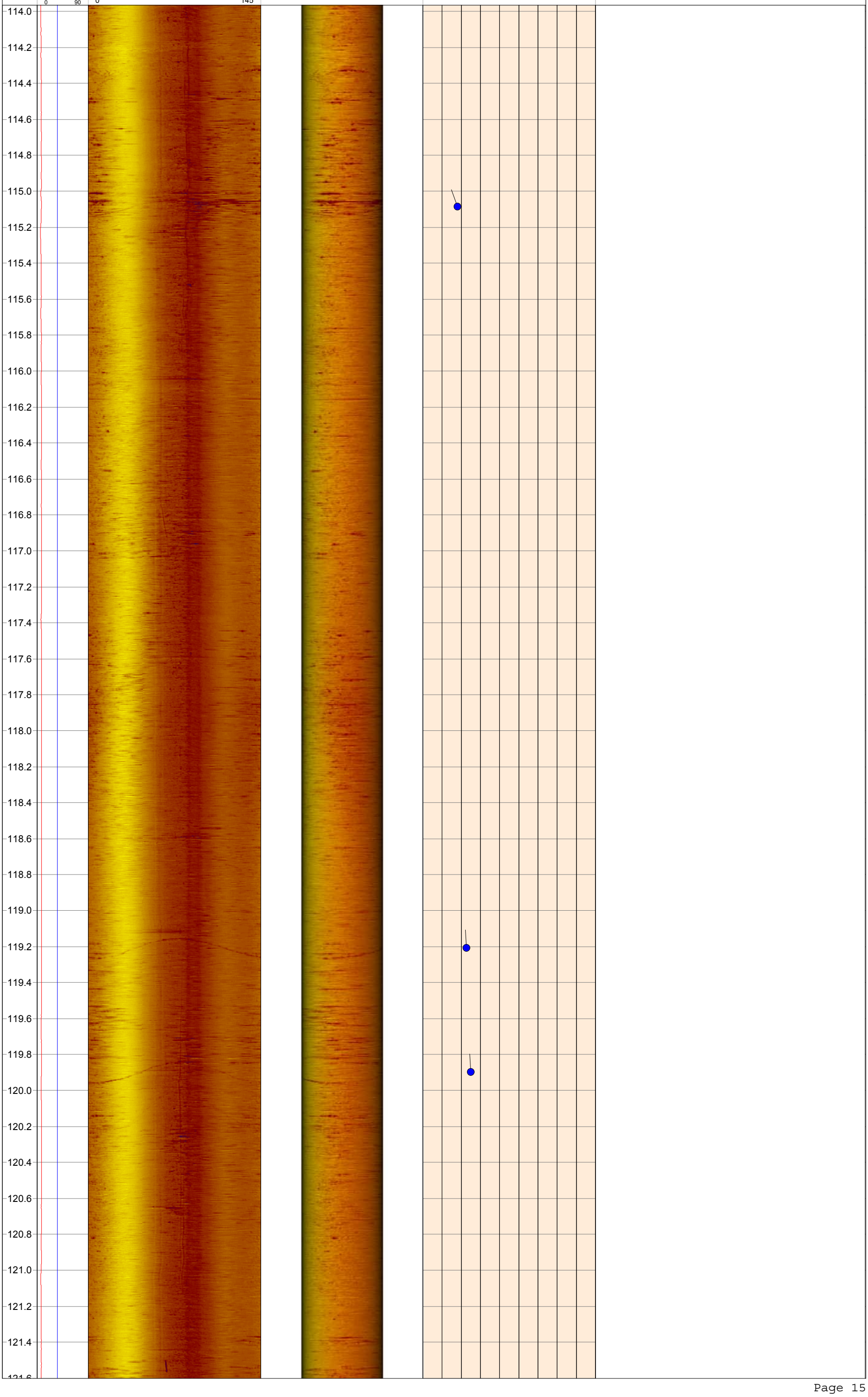
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



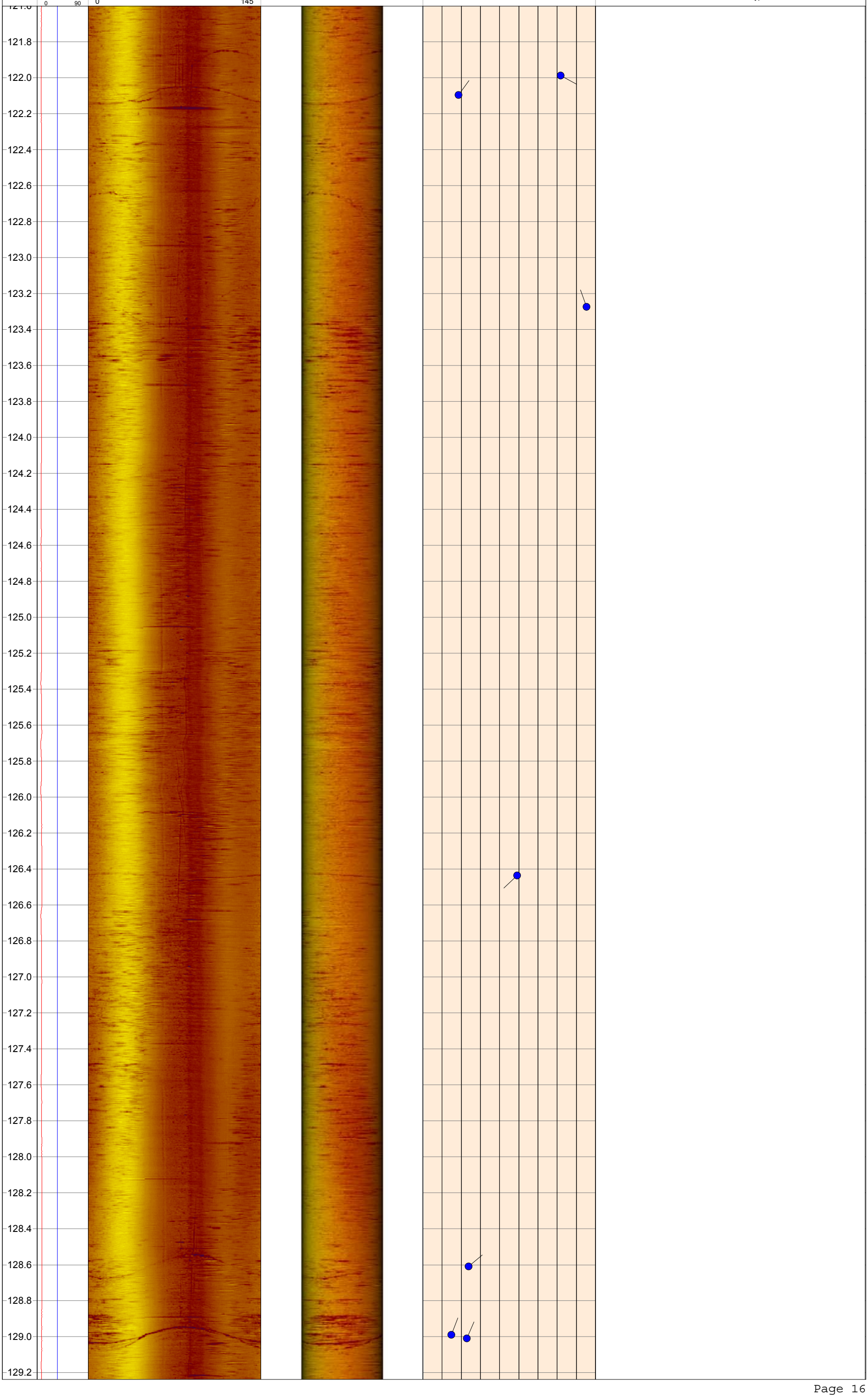
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



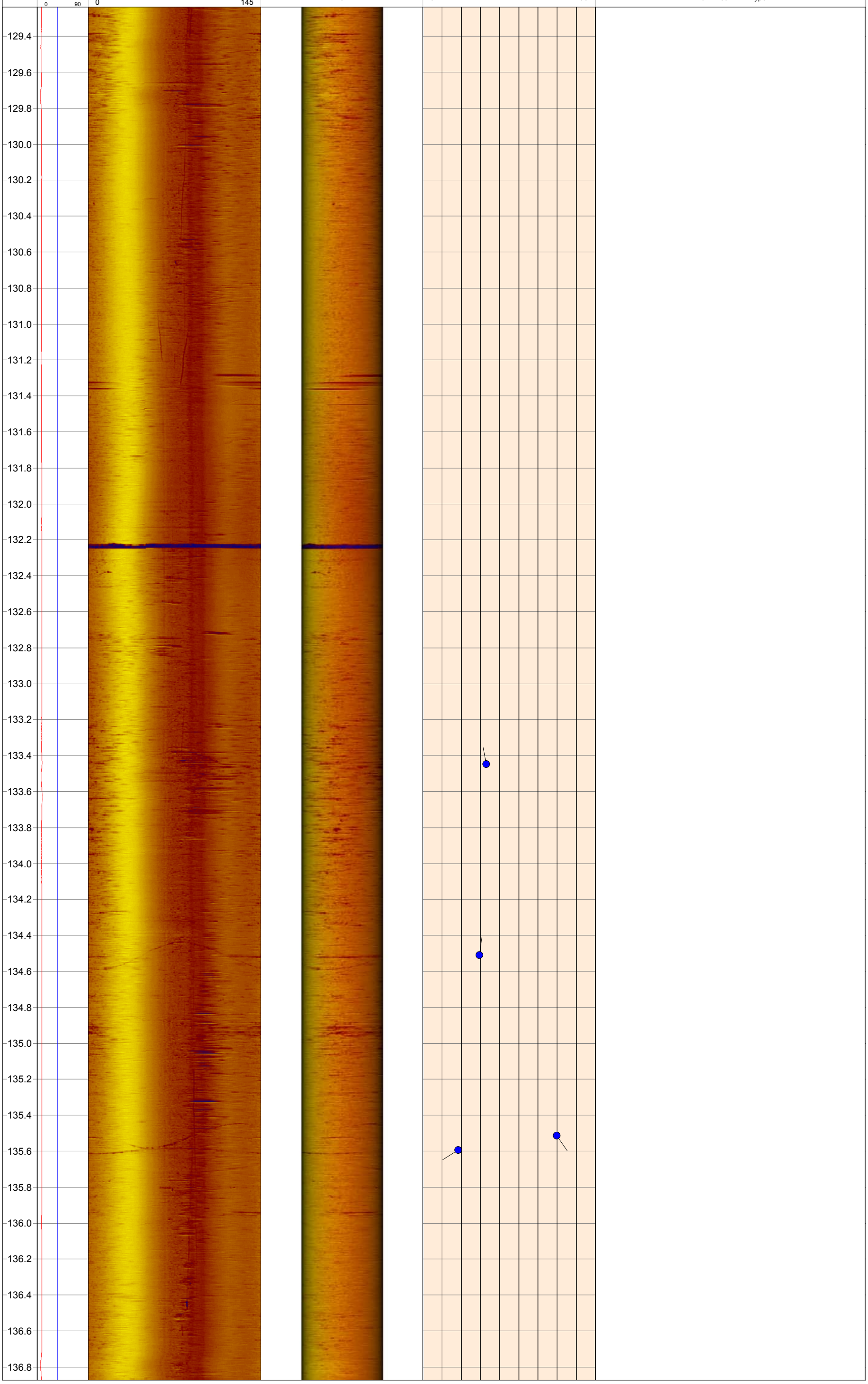
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



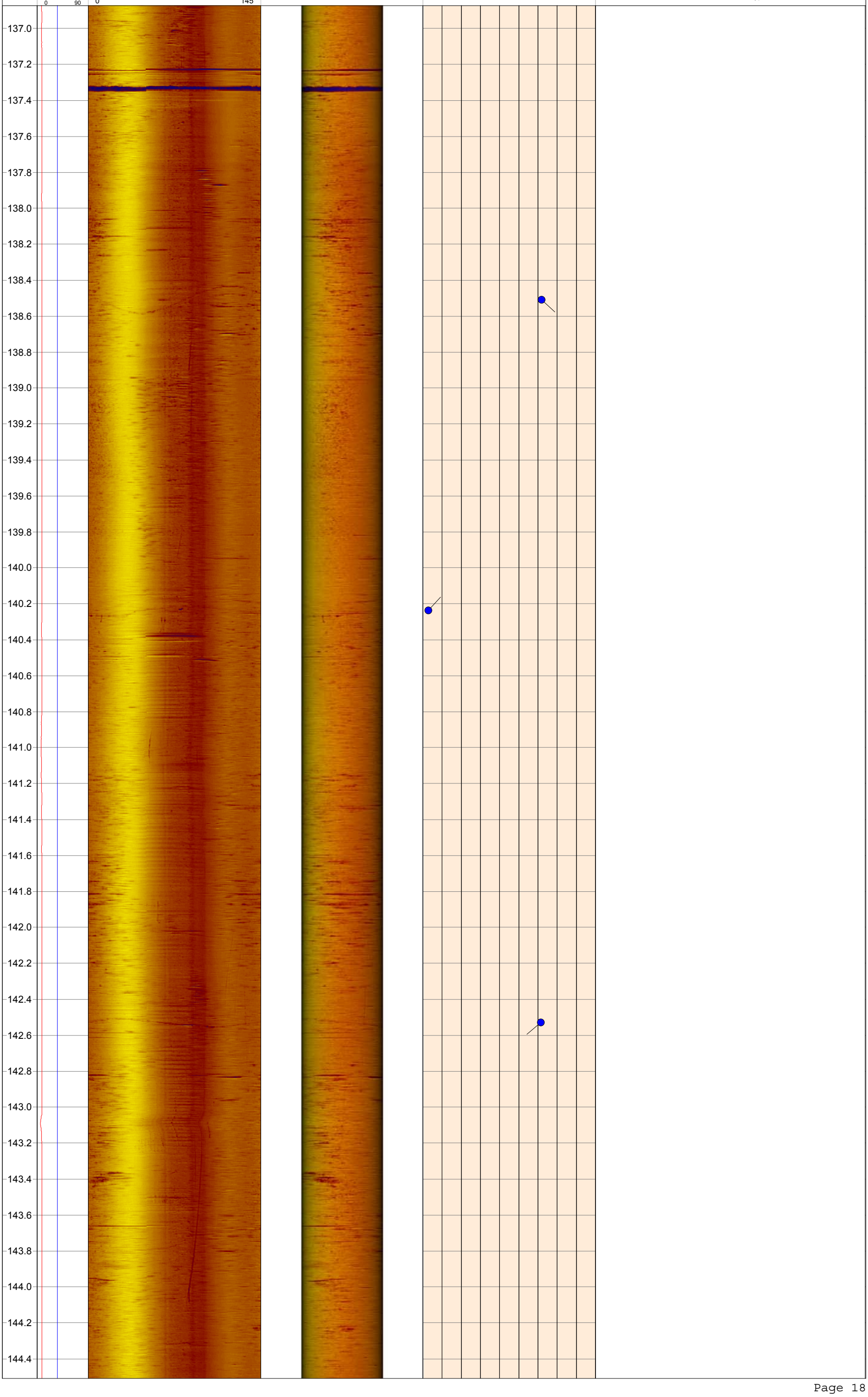
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



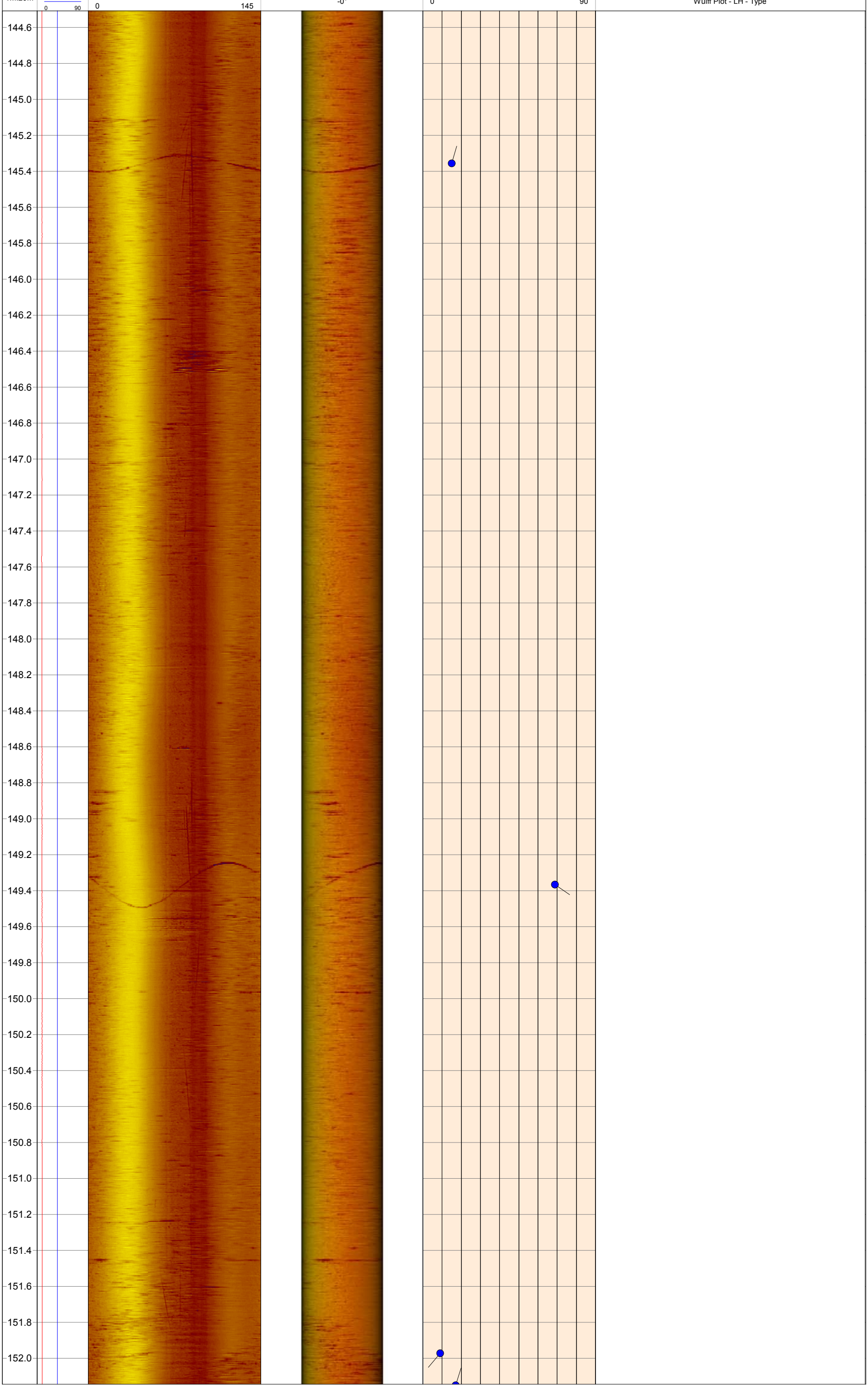
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



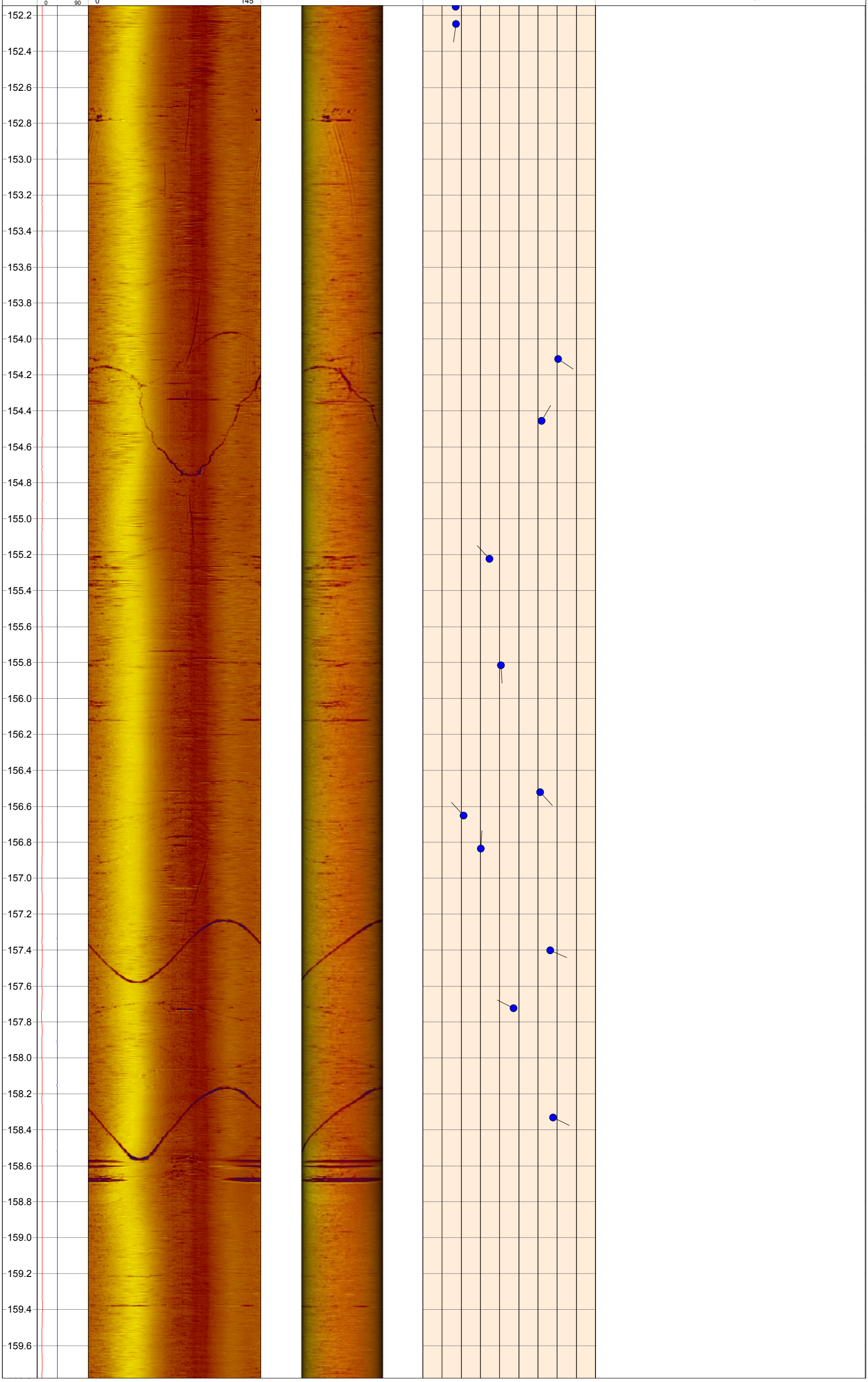
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				

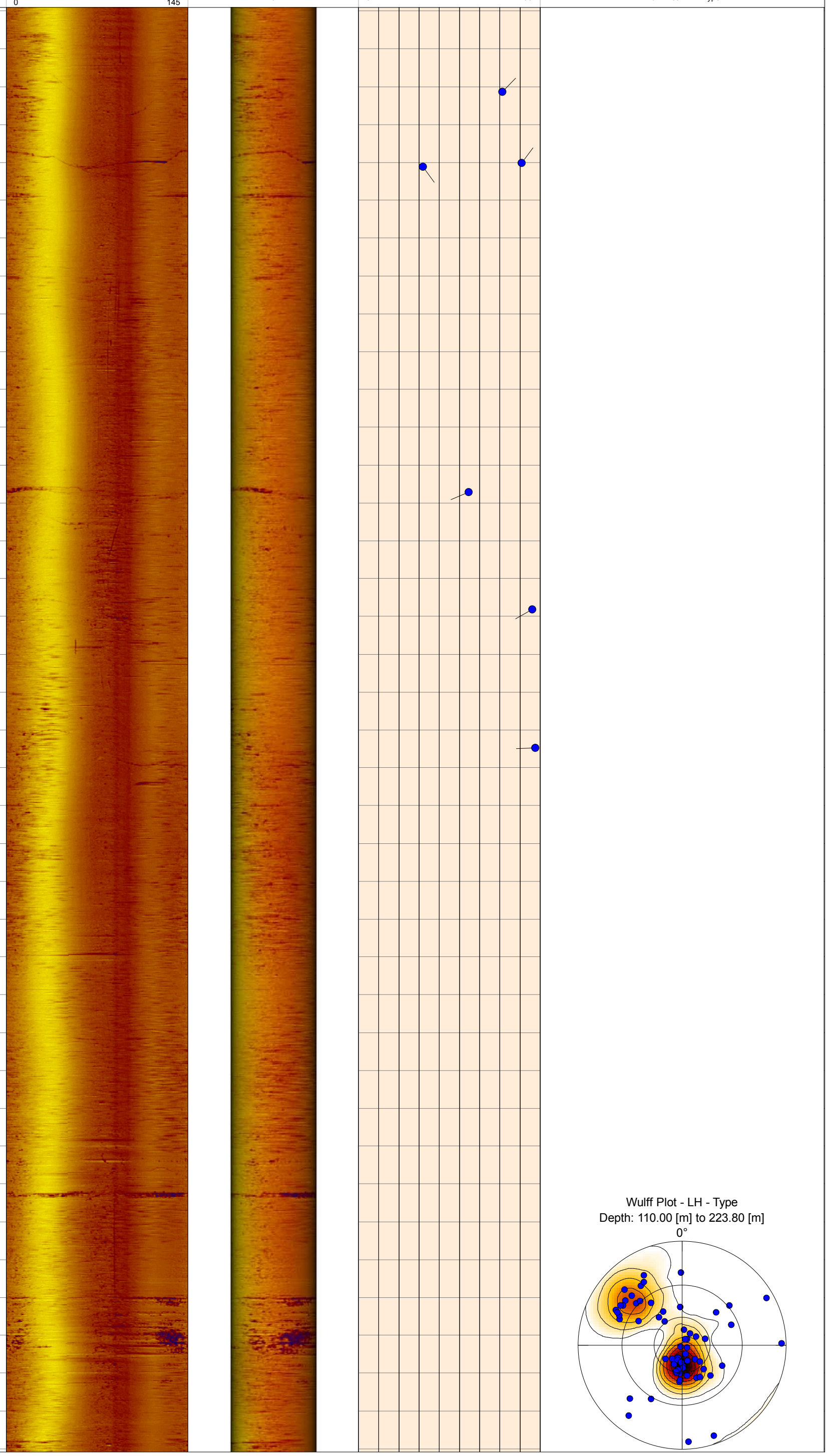


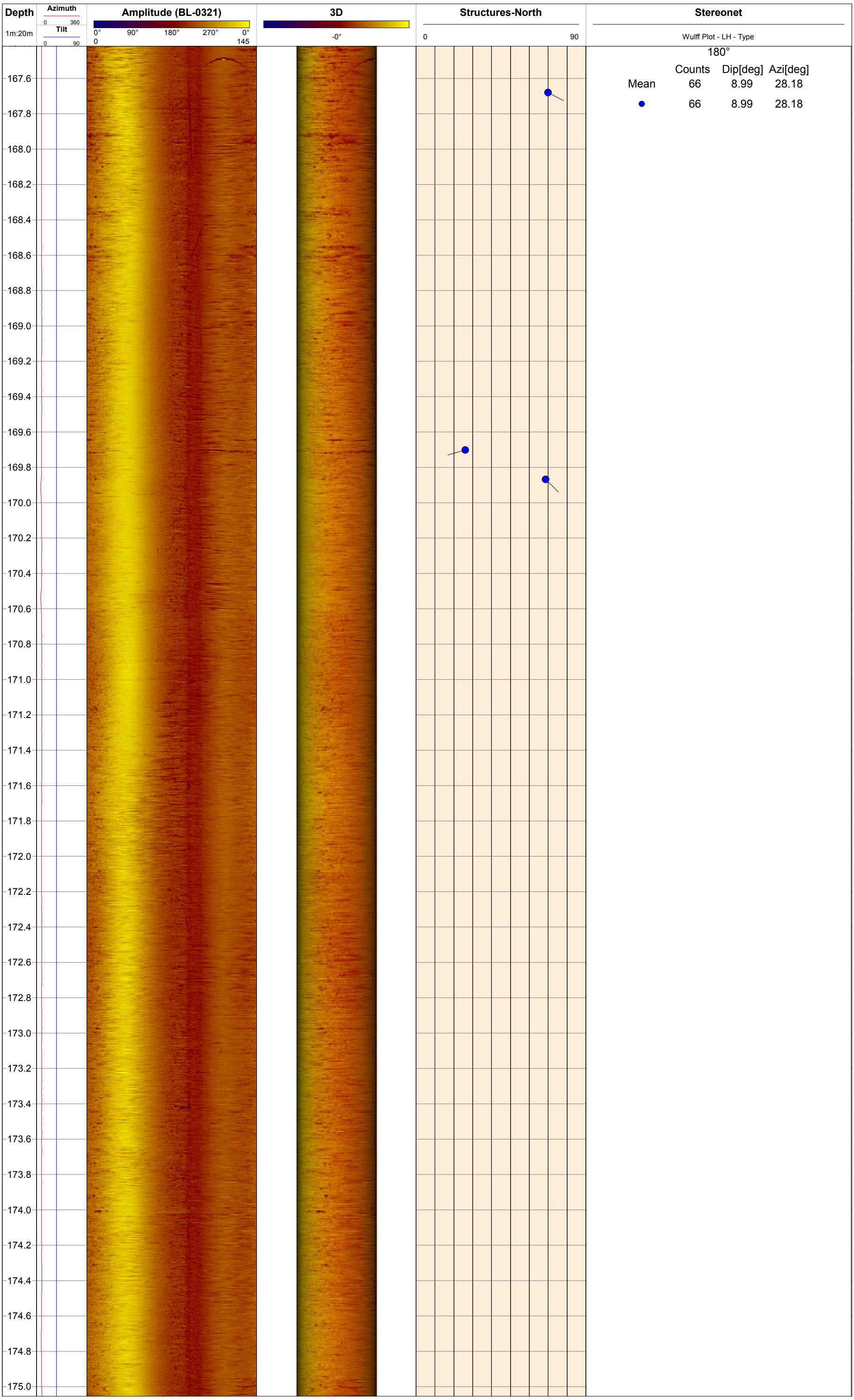
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



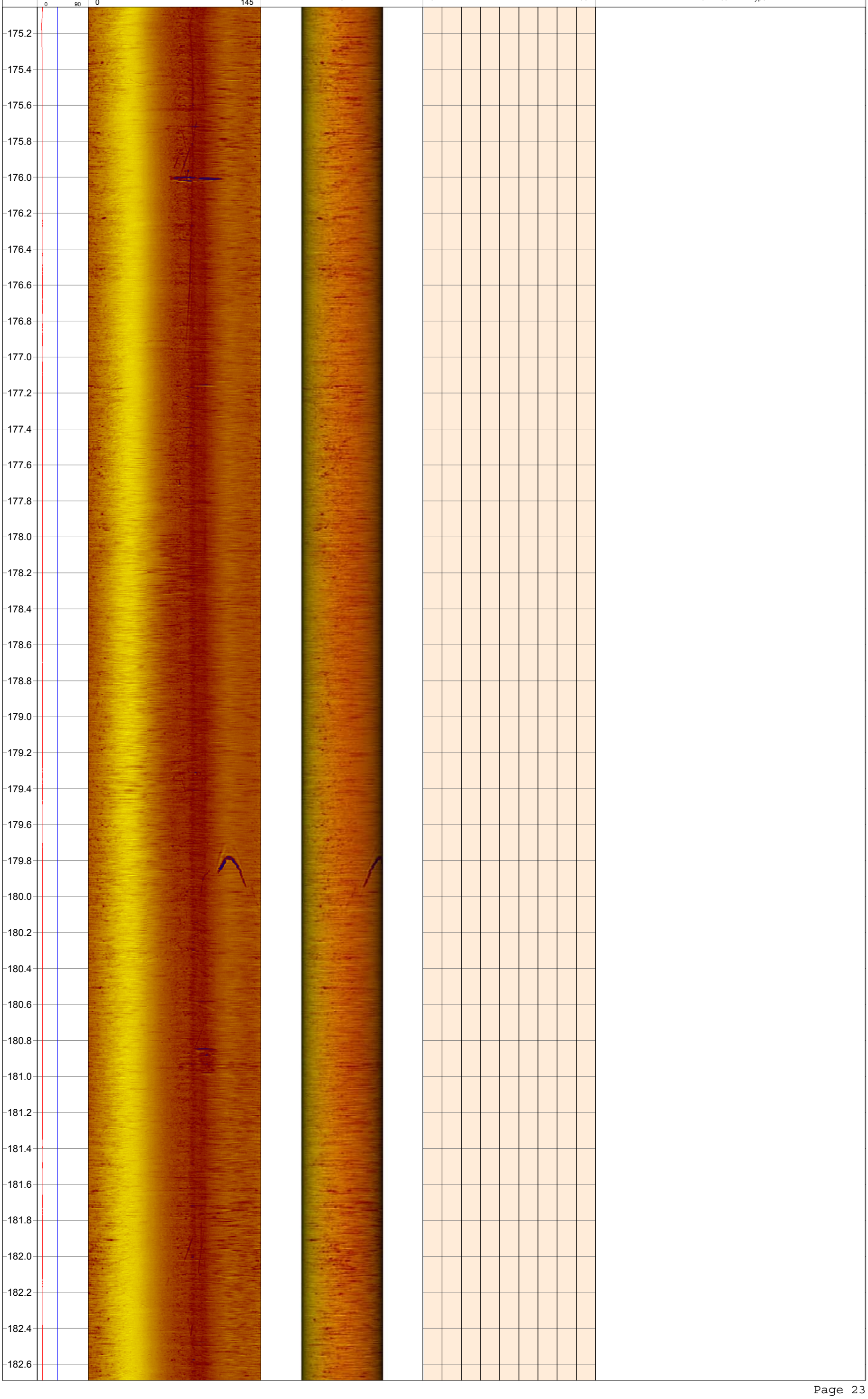
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				

159.8
160.0
160.2
160.4
160.6
160.8
161.0
161.2
161.4
161.6
161.8
162.0
162.2
162.4
162.6
162.8
163.0
163.2
163.4
163.6
163.8
164.0
164.2
164.4
164.6
164.8
165.0
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167.0
167.2
167.4

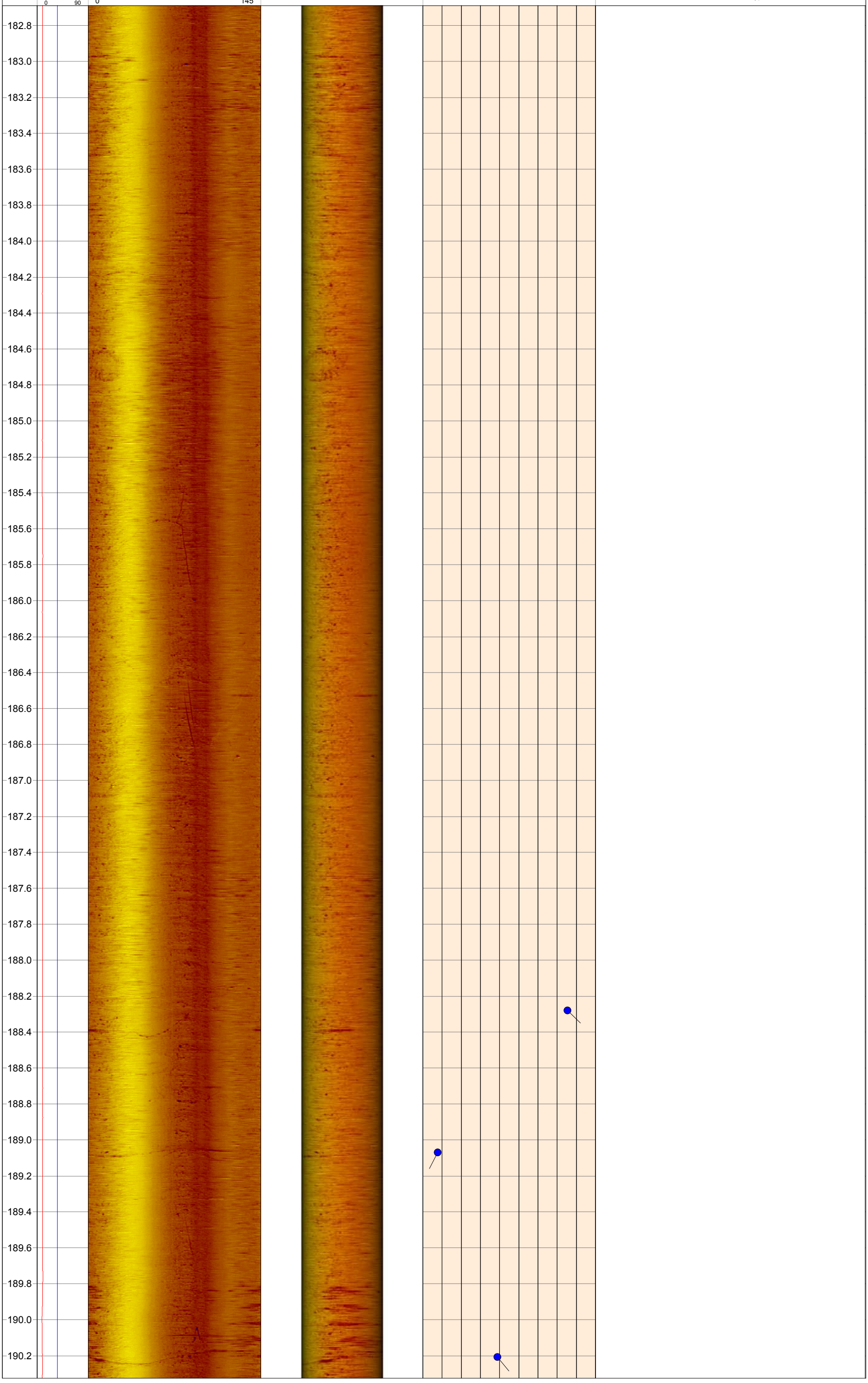



Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0321)
0°
90°
180°
270°
0°
0
145
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
180°
Counts
Dip[deg]
Azi[deg]
Mean
66
8.99
28.18
66
8.99
28.18
167.6
167.8
168.0
168.2
168.4
168.6
168.8
169.0
169.2
169.4
169.6
169.8
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170.8
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174.8
175.0

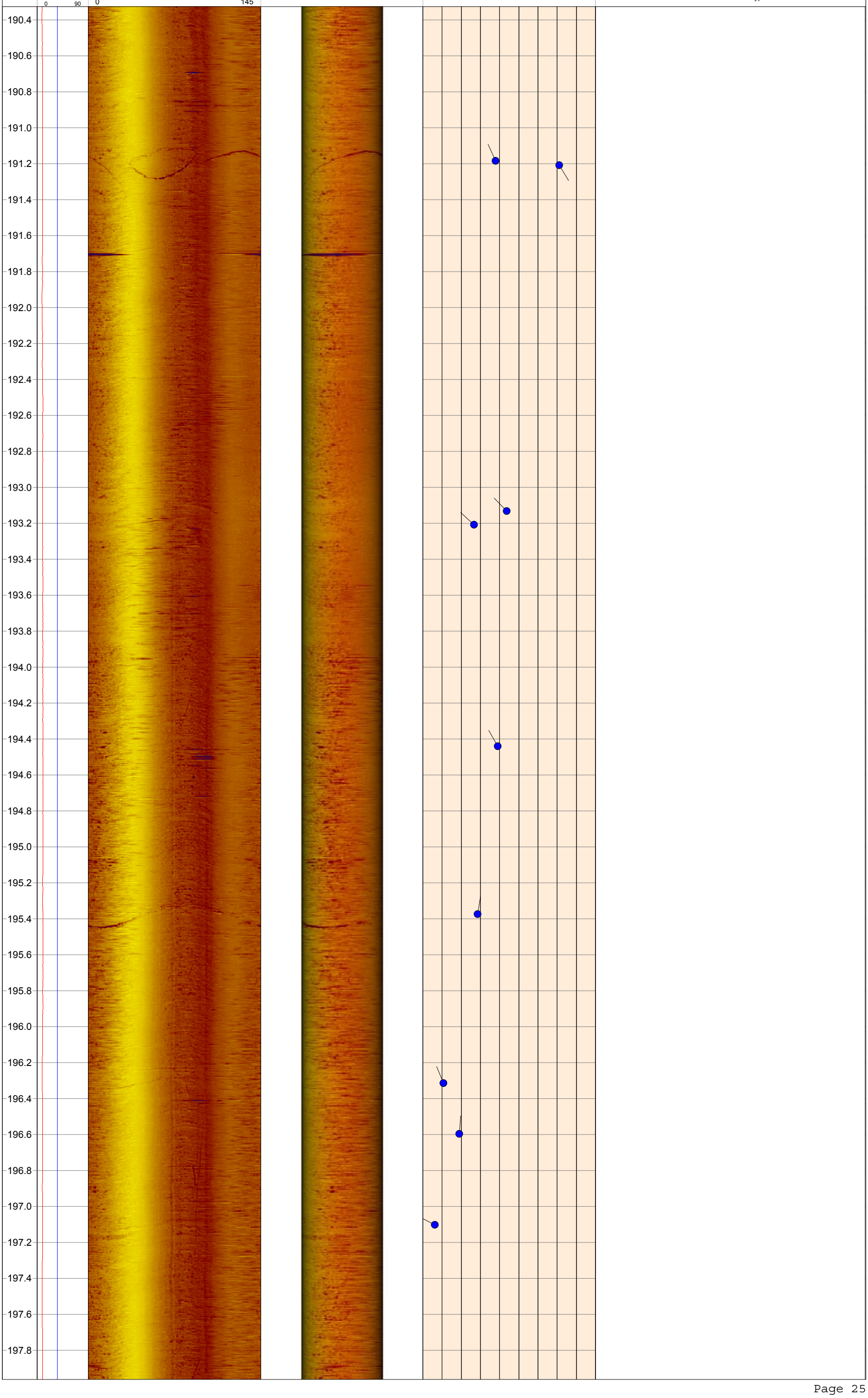
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



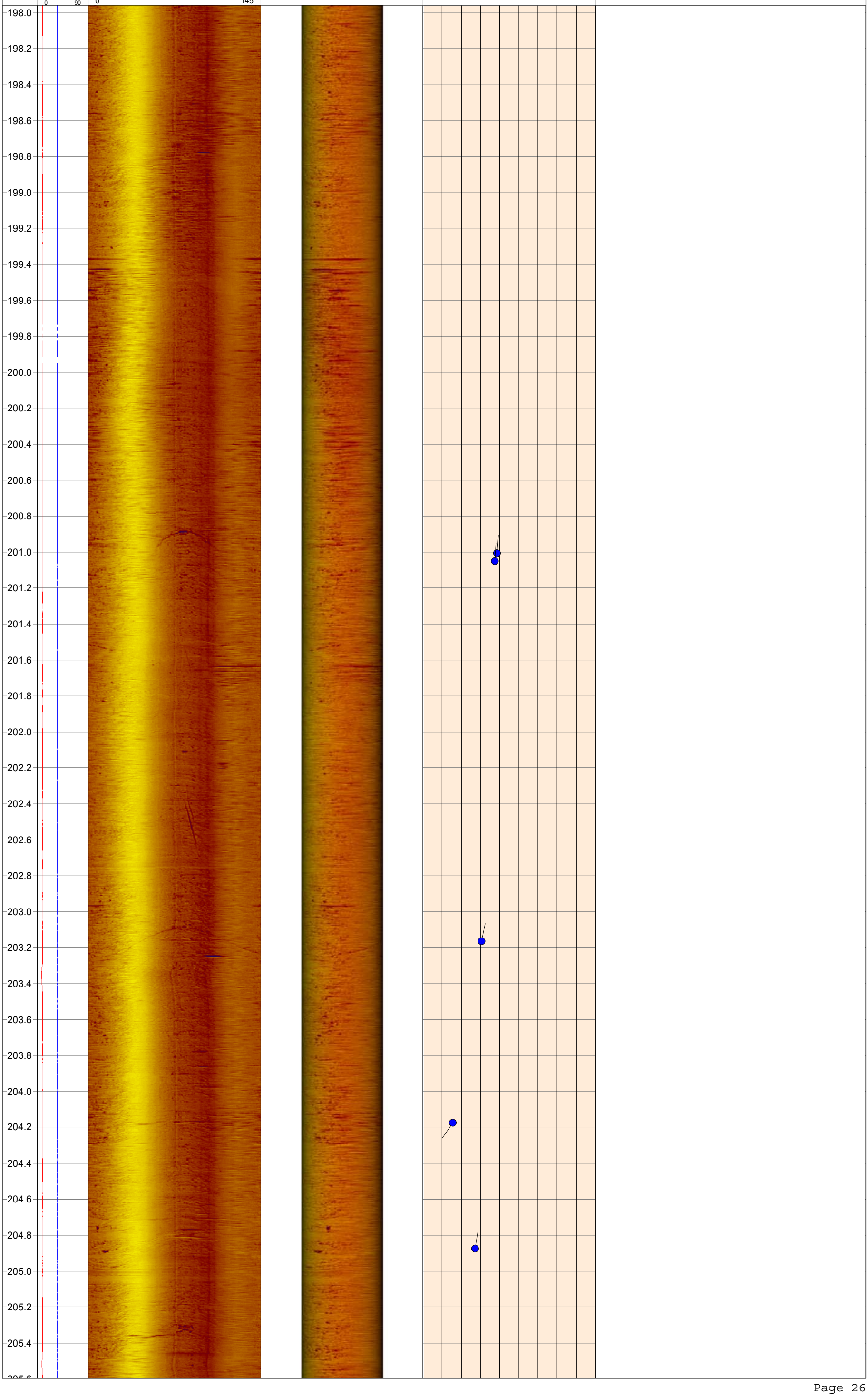
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



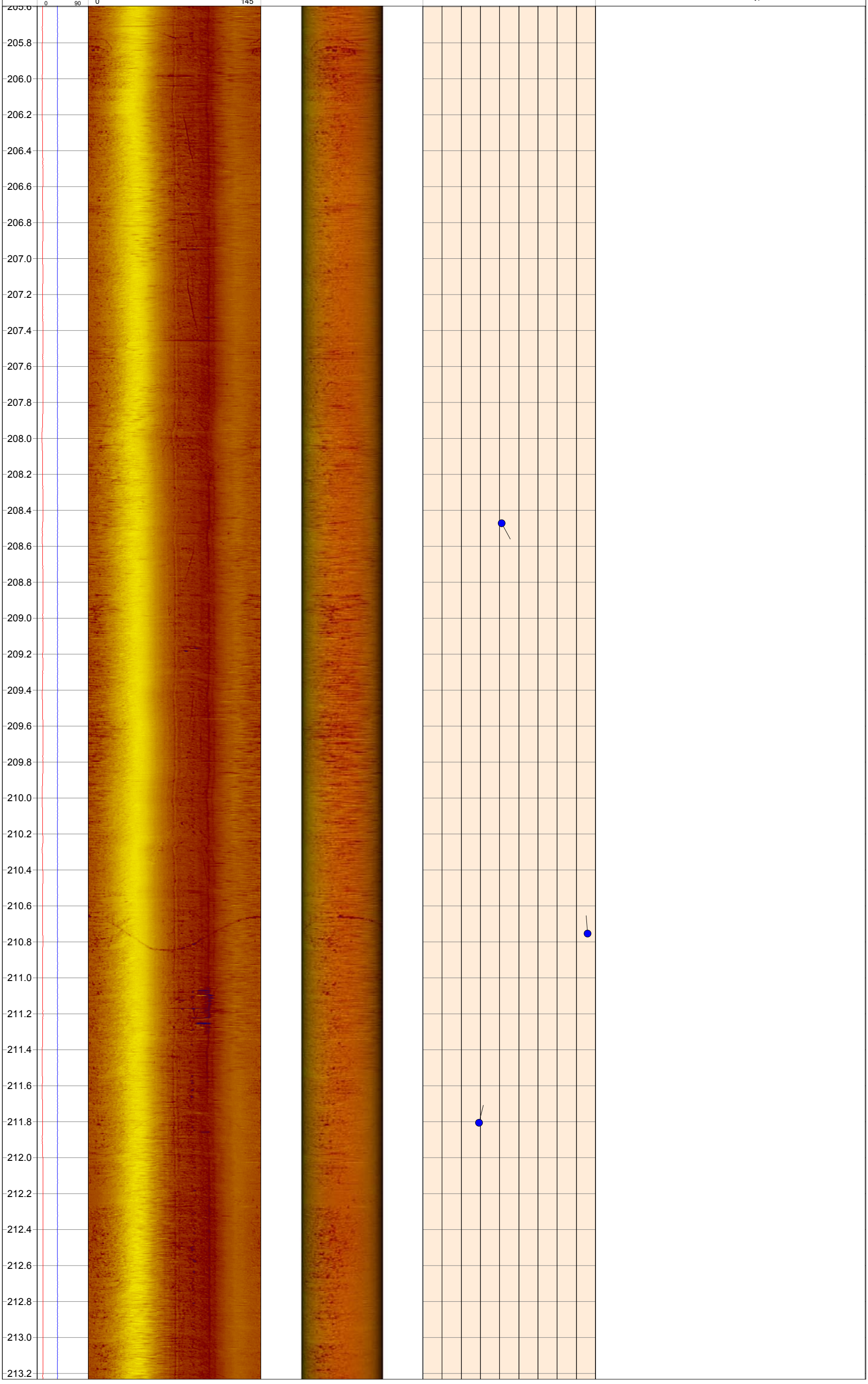
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



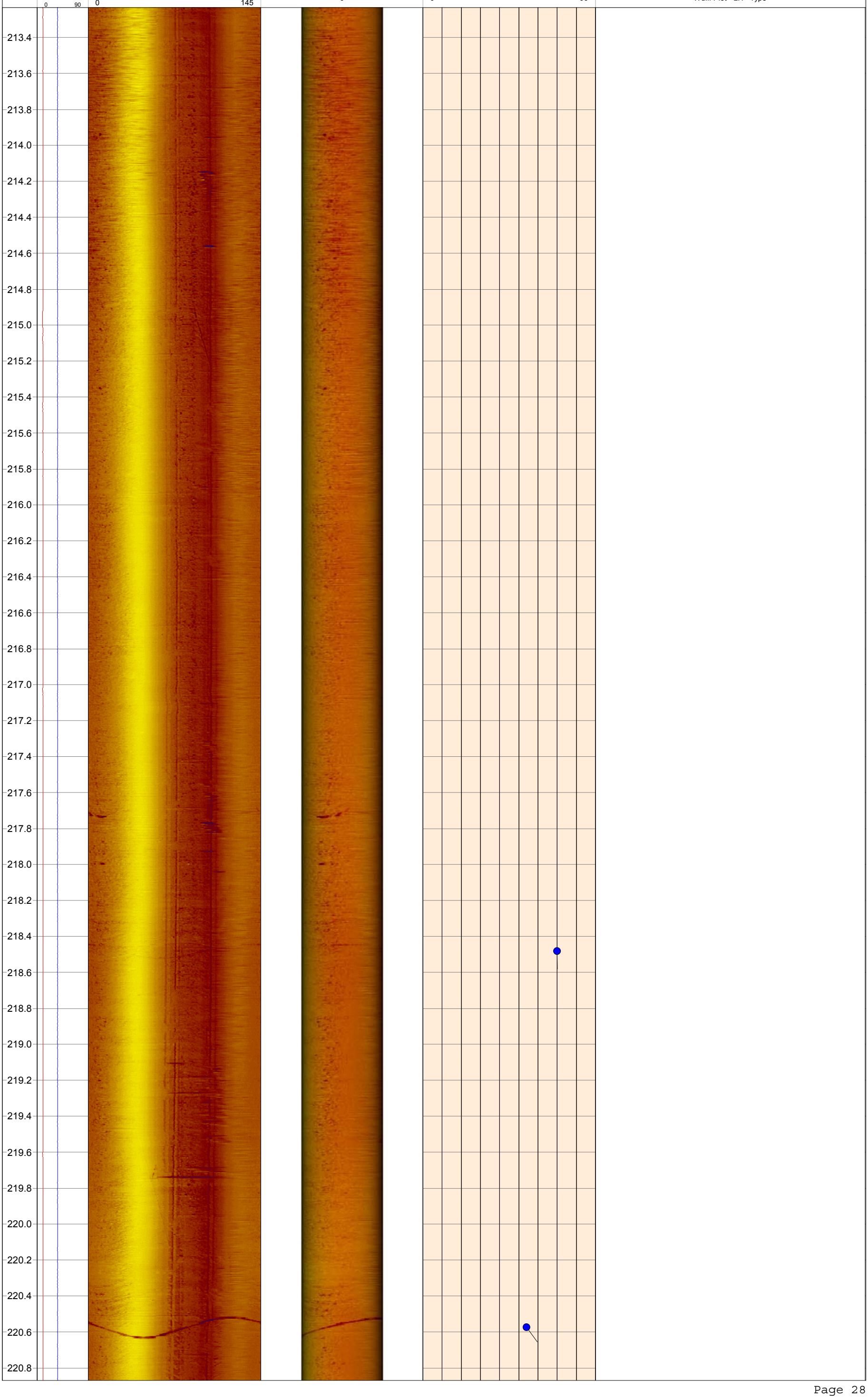
Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				

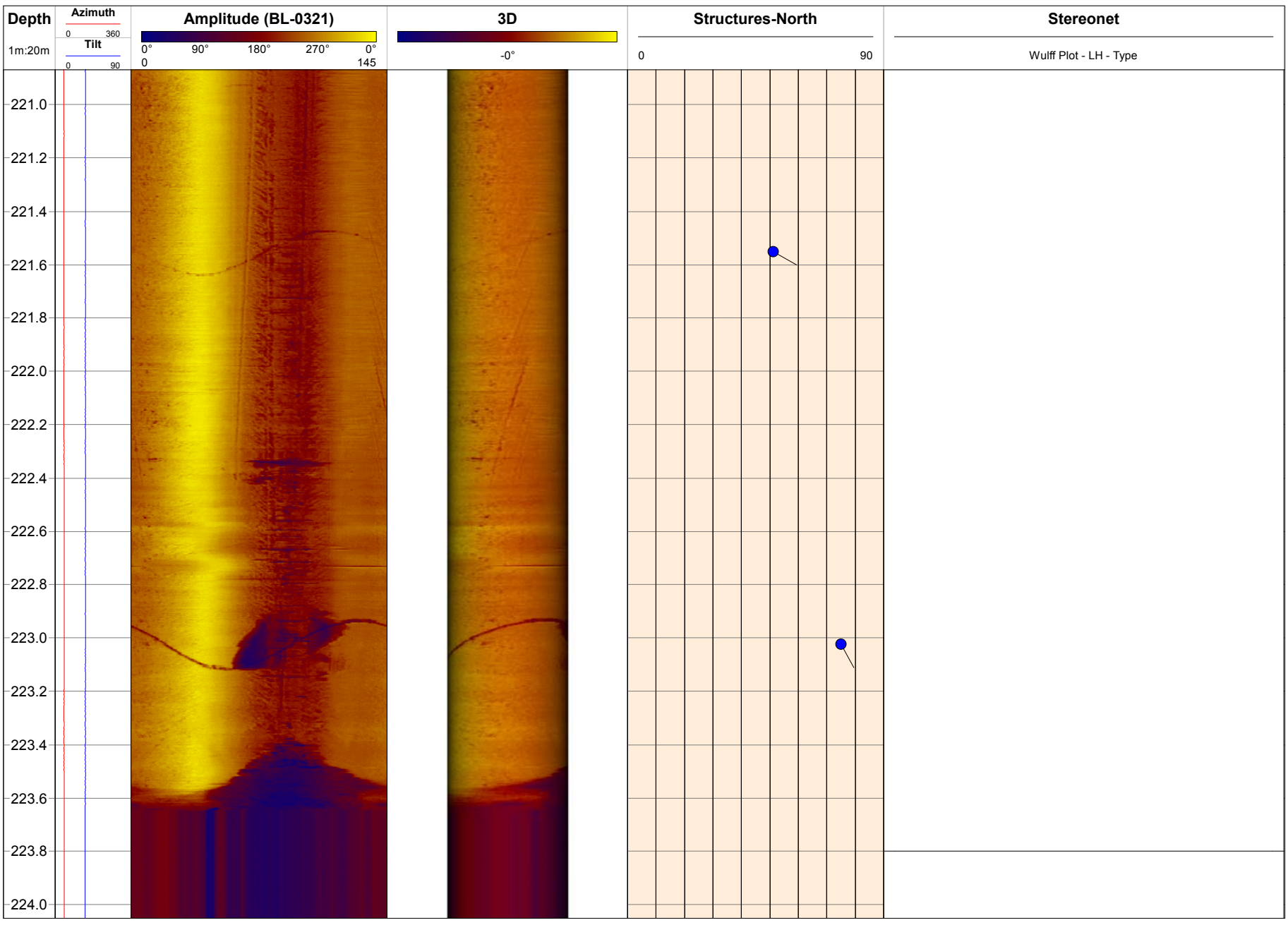


Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



Depth	Azimuth	Amplitude (BL-0321)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				




Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0321)
0°
90°
180°
270°
0°
0
145
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
221.0
221.2
221.4
221.6
221.8
222.0
222.2
222.4
222.6
222.8
223.0
223.2
223.4
223.6
223.8
224.0

ACOUSTIC TELEVIEWER LOG

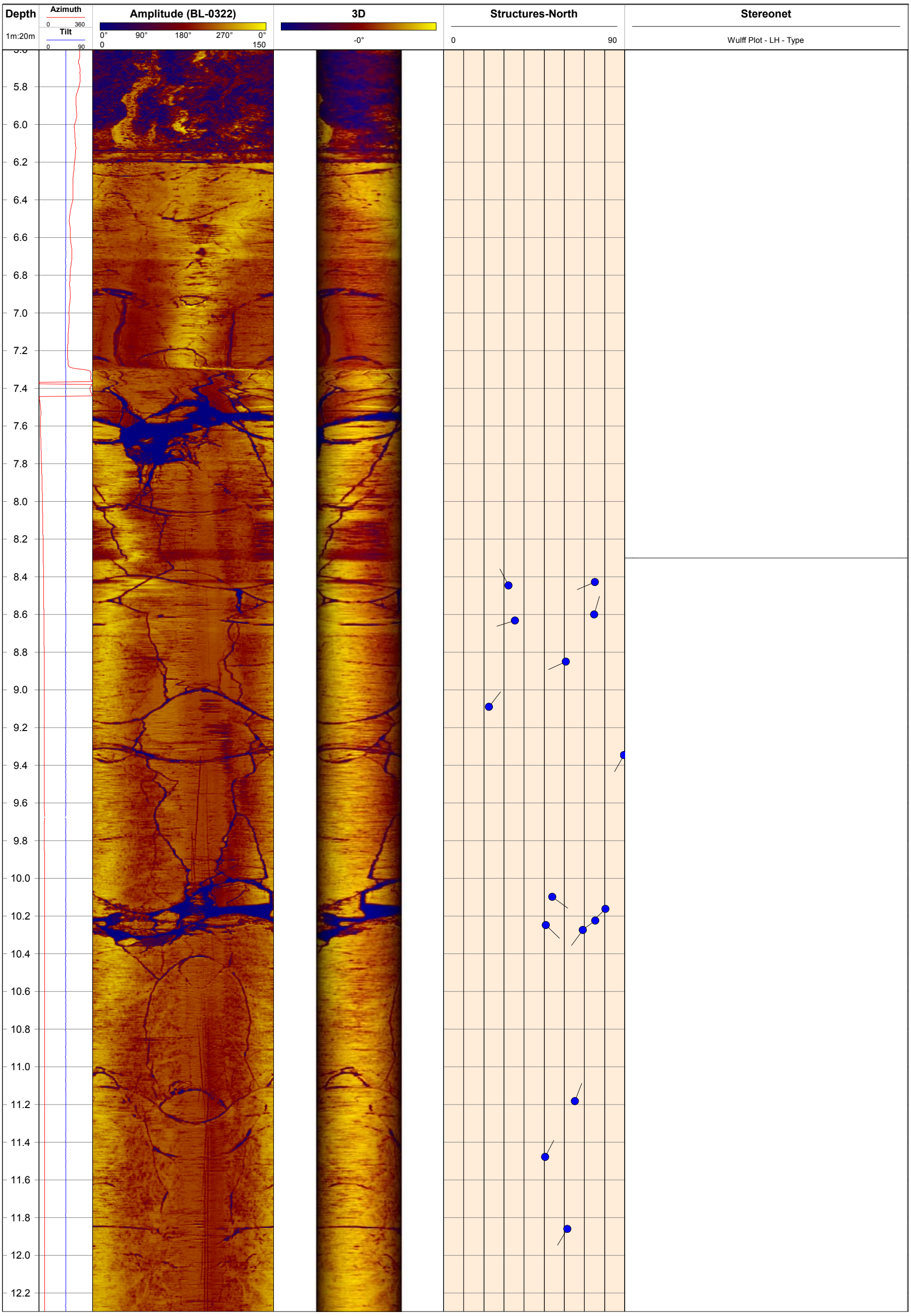
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Environmental, Hydrogeological and
Geotechnical Engineering Consultants

Project Location:	**Springpole, ON**	***Easting:***	**549850.1**
Borehole ID:	**BL-0322**	***Northing:***	**5692576.7**
Report Date:	**December 2019**	***Bearing at the collar:***	**040**
Logging Date:	**October 3, 2019**	***Plunge at the collar:***	**-45**
Logging Depth (m):	**73.3**	***Borehole Depth (m):***	**386.18**

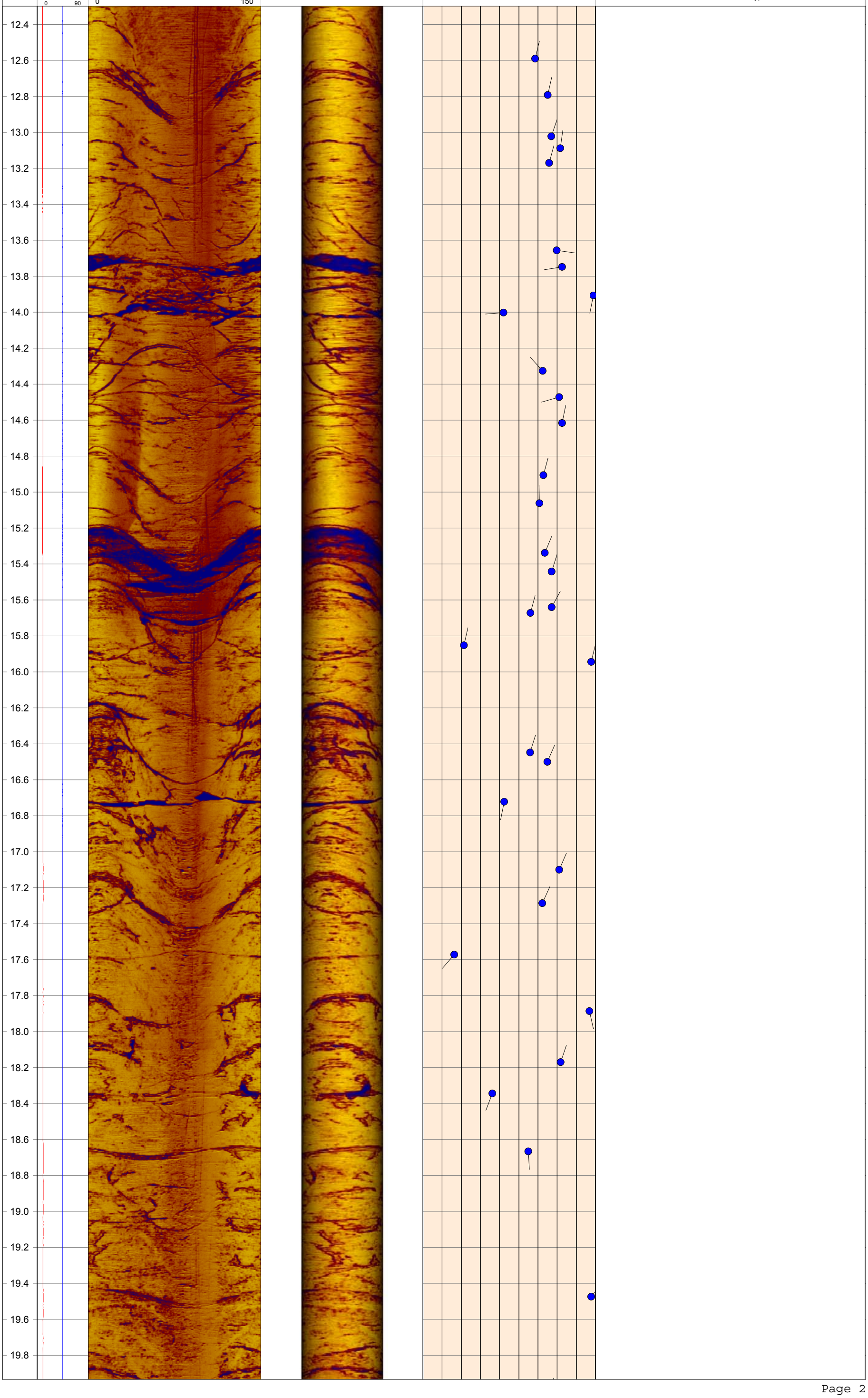
Client: **First Mining Gold / Gold Canyon Resources**

FFC Reference No: **FFC-NL-3134-002**

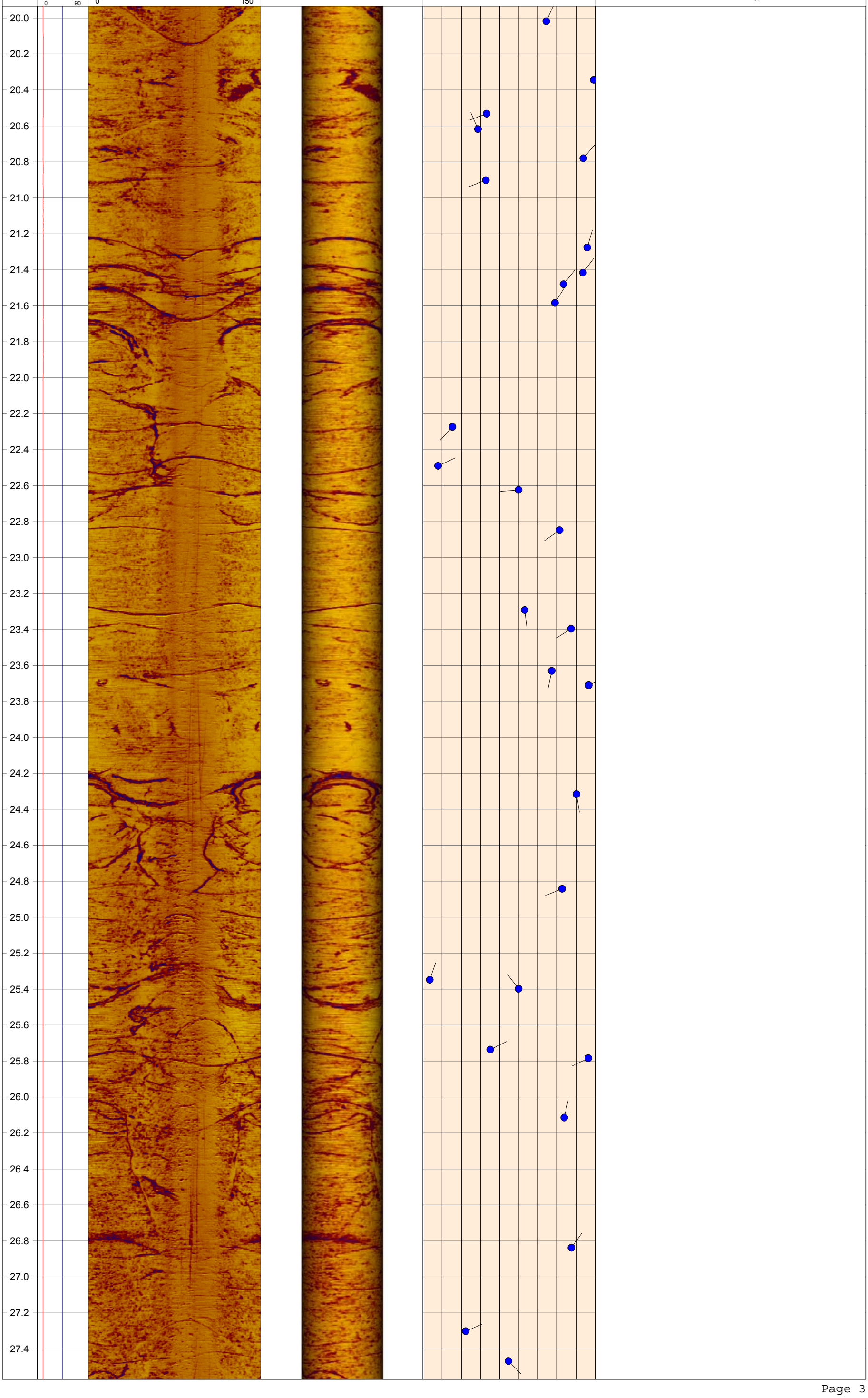
Figure No.: **D19**



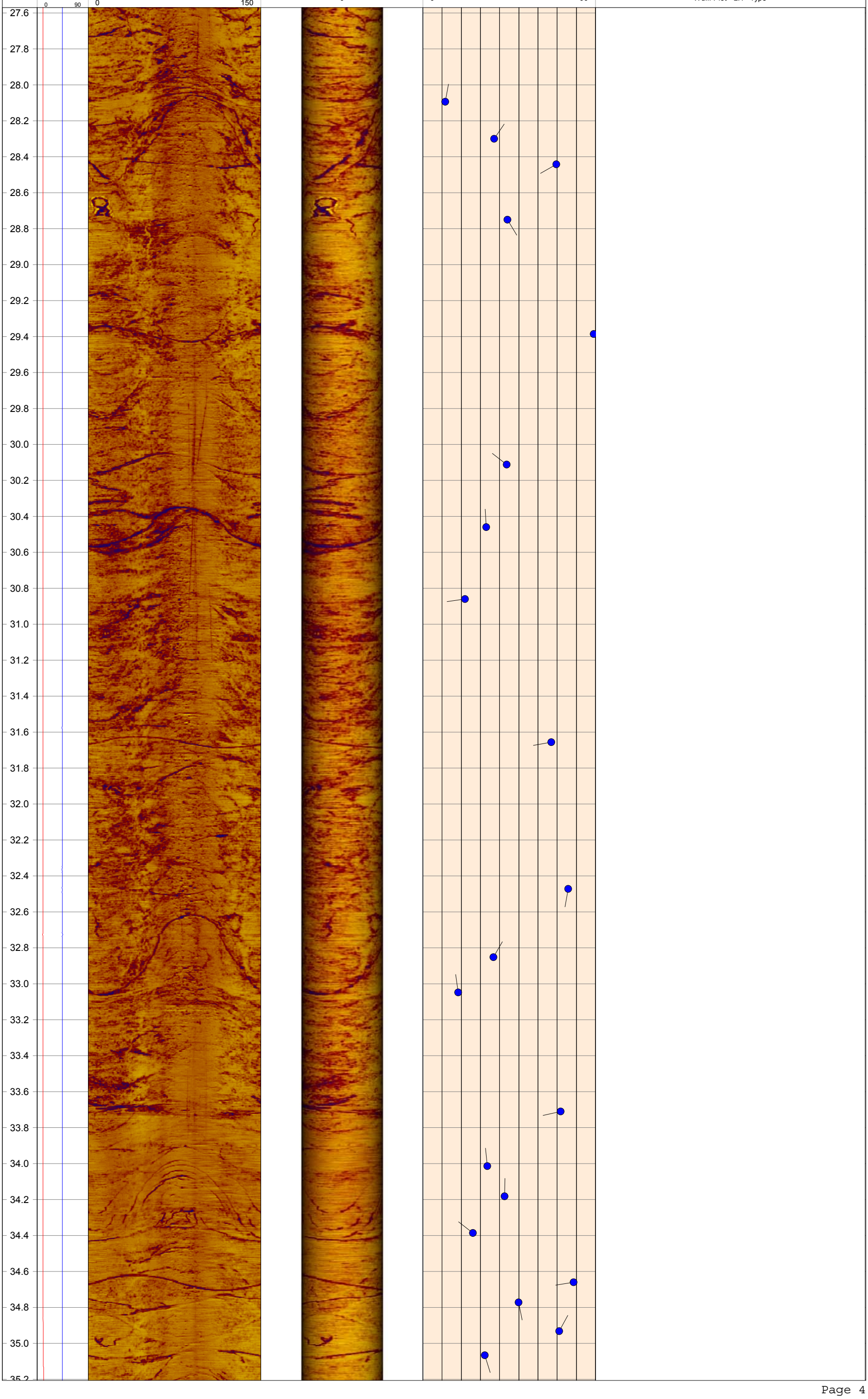
Depth	Azimuth	Amplitude (BL-0322)	3D	Structures-North	Stereonet
1m:20m	0 360 / Tilt 0 90	0° 90° 180° 270° 0° / 0 150	-0°	0 90	Wulff Plot - LH - Type



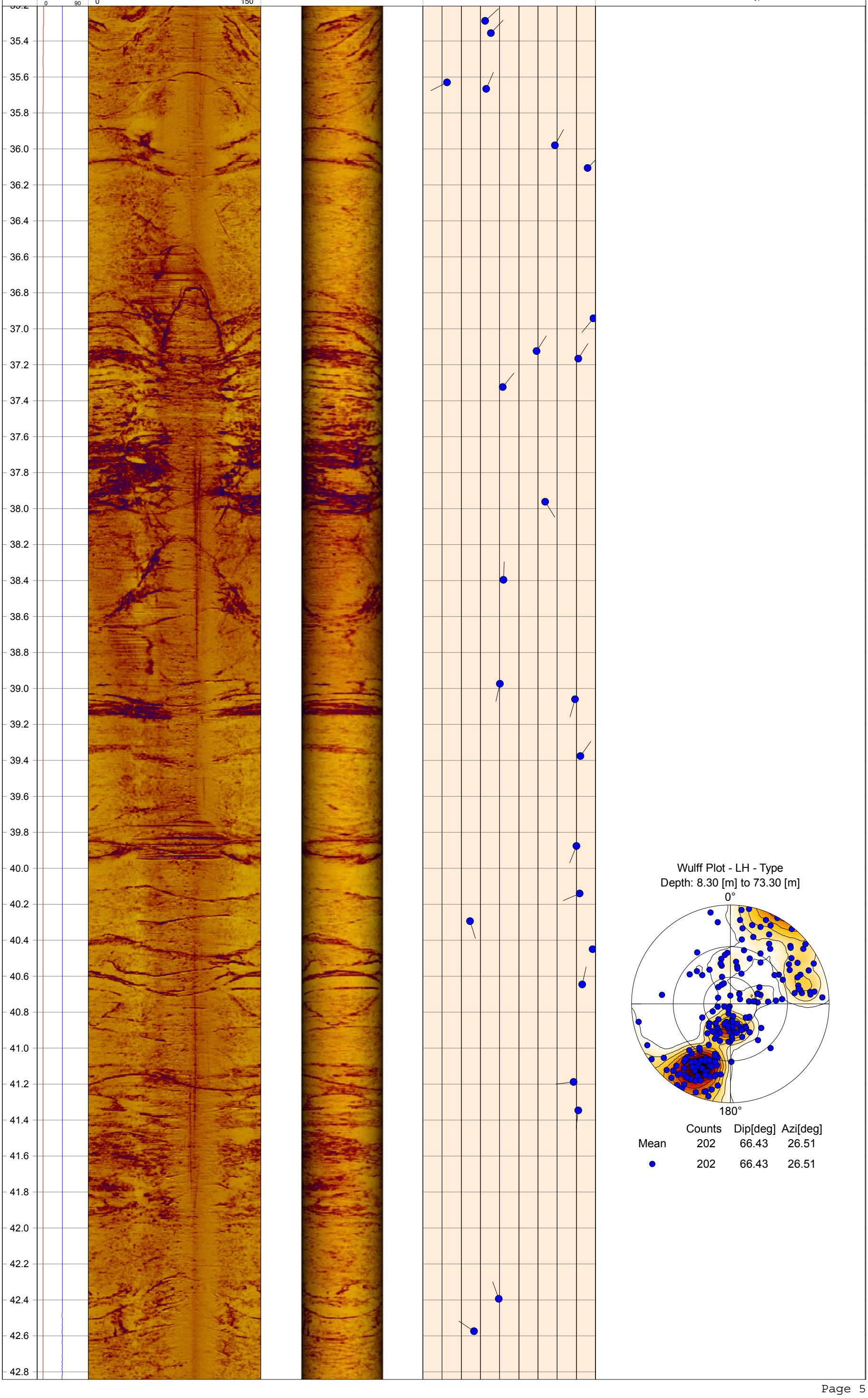
Depth	Azimuth	Amplitude (BL-0322)	3D	Structures-North	Stereonet
1m:20m	0 360 / Tilt 0 90	0° 90° 180° 270° 0° / 0 150	-0°	0 90	Wulff Plot - LH - Type



Depth	Azimuth	Amplitude (BL-0322)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				



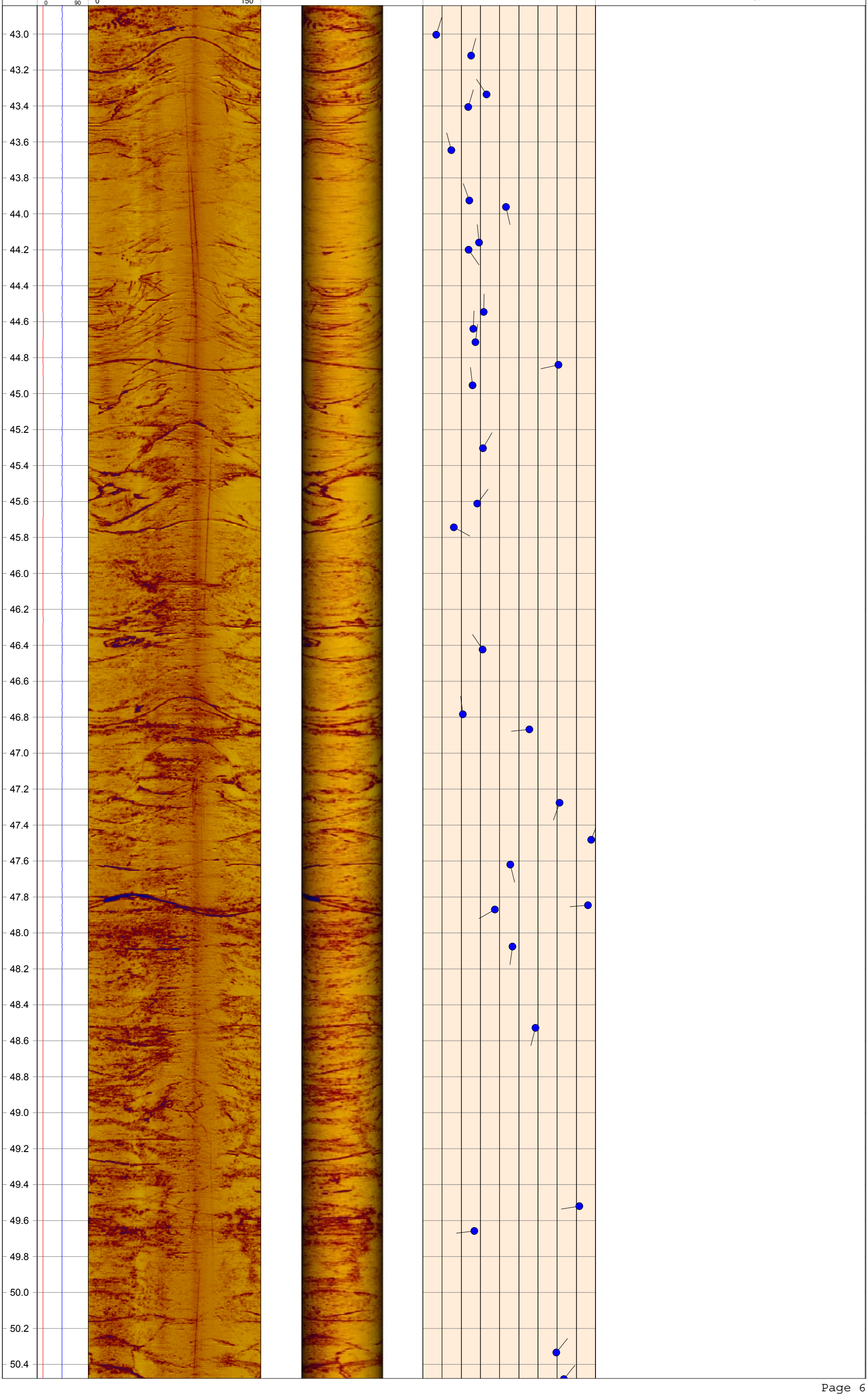
Depth	Azimuth	Amplitude (BL-0322)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				



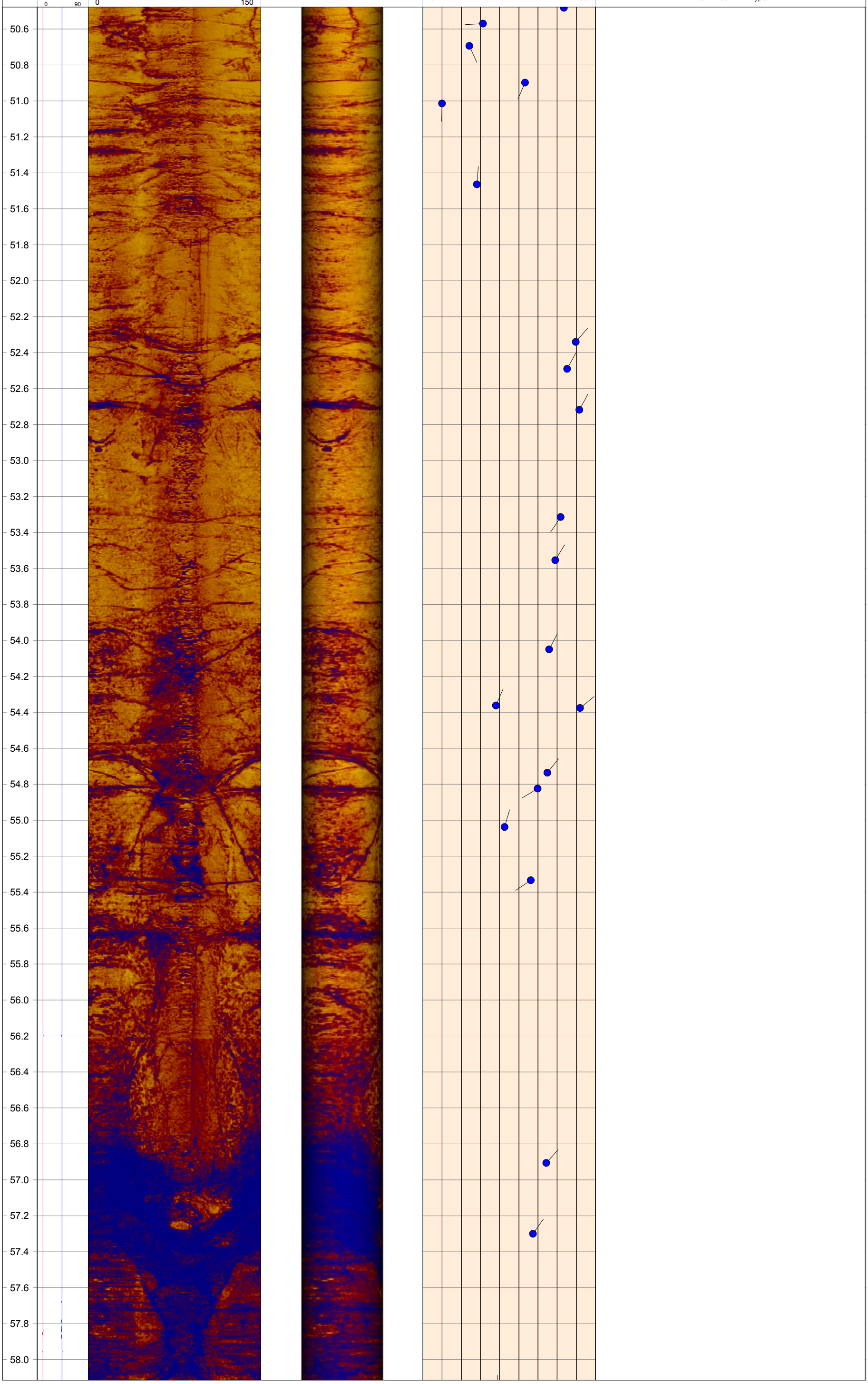
Wulff Plot - LH - Type
Depth: 8.30 [m] to 73.30 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	202	66.43	26.51
●	202	66.43	26.51

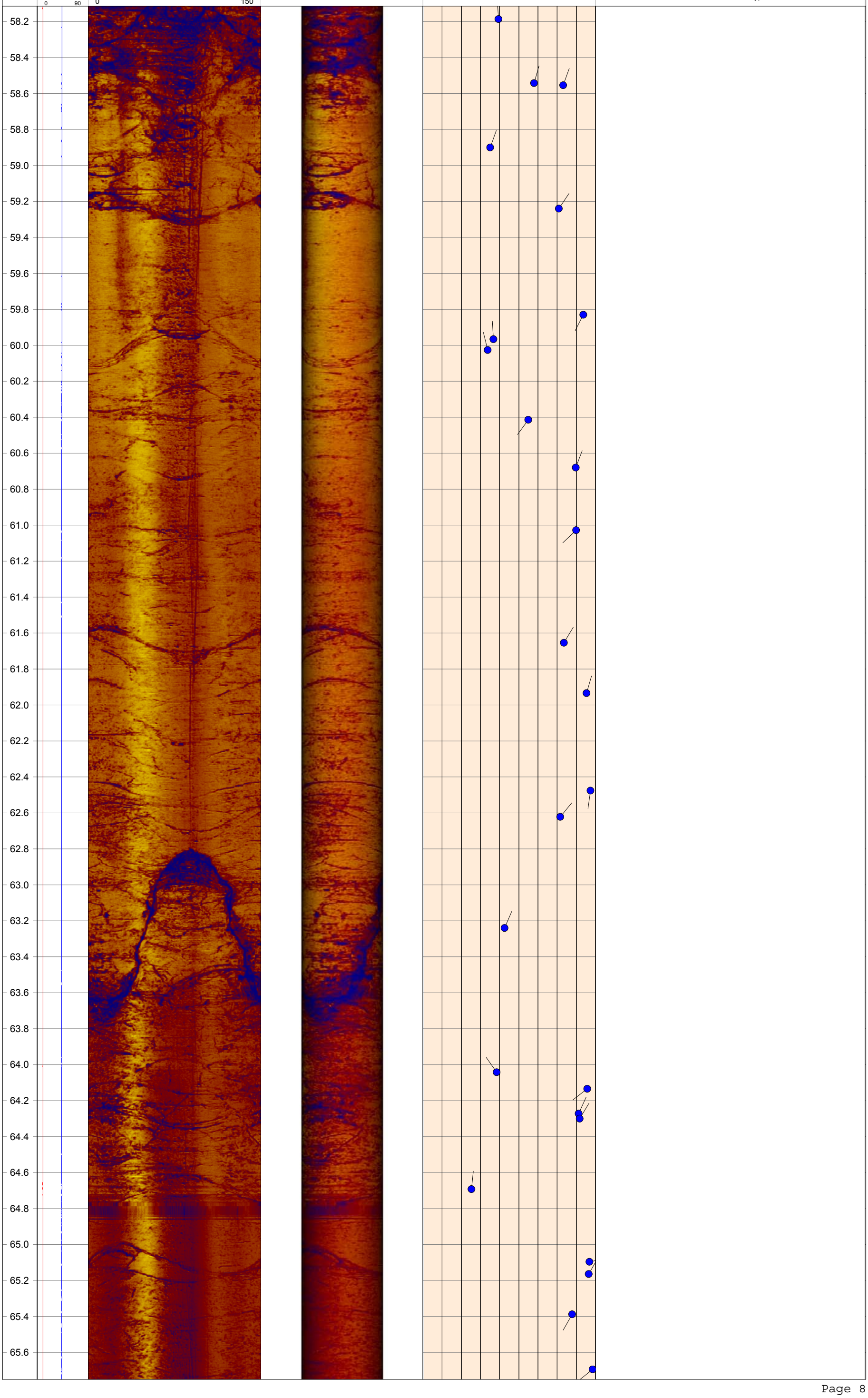
Depth	Azimuth	Amplitude (BL-0322)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				



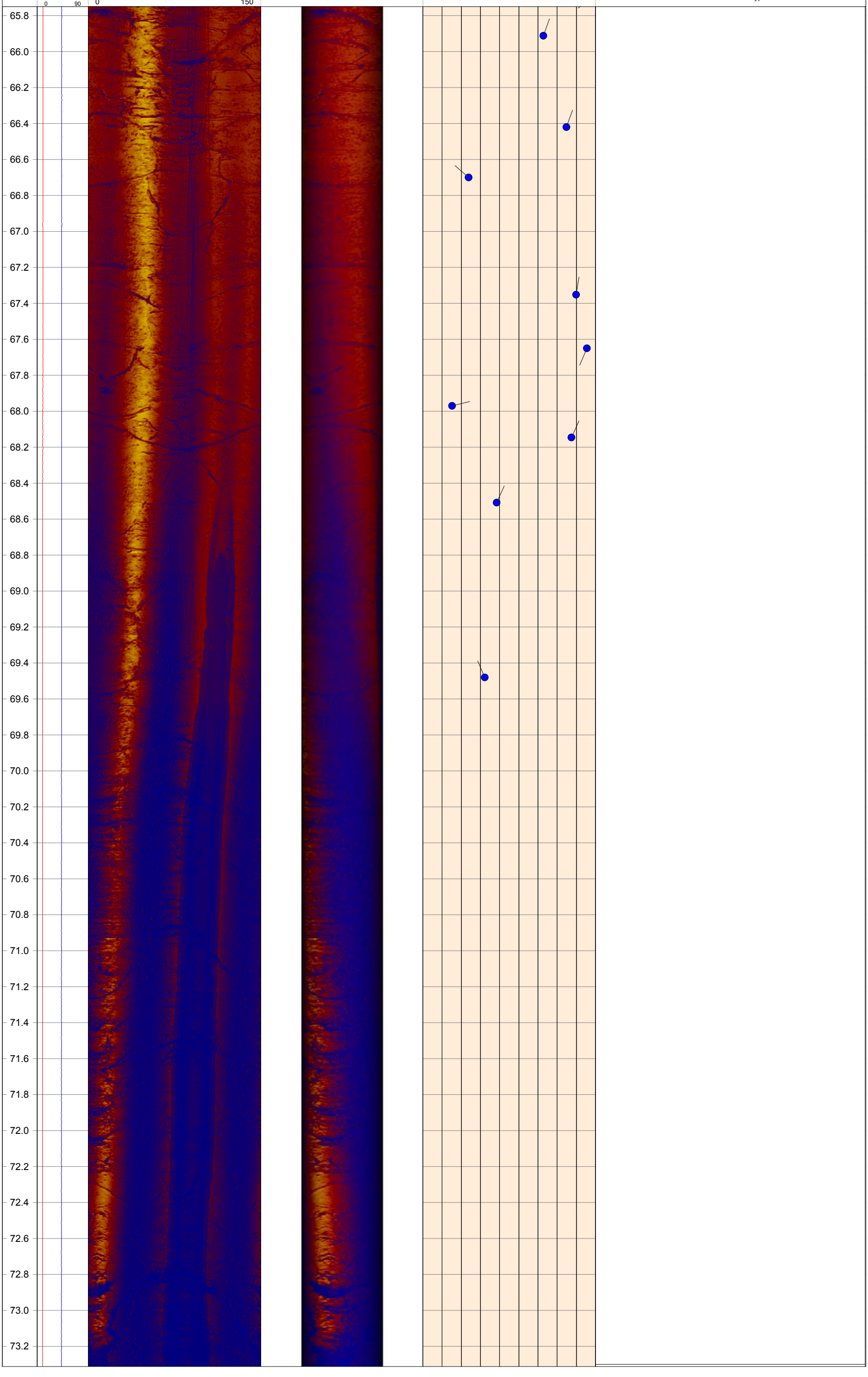
Depth	Azimuth	Amplitude (BL-0322)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				



Depth	Azimuth	Amplitude (BL-0322)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				



Depth	Azimuth	Amplitude (BL-0322)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 150			
	0 90				



ACOUSTIC TELEVIEWER LOG

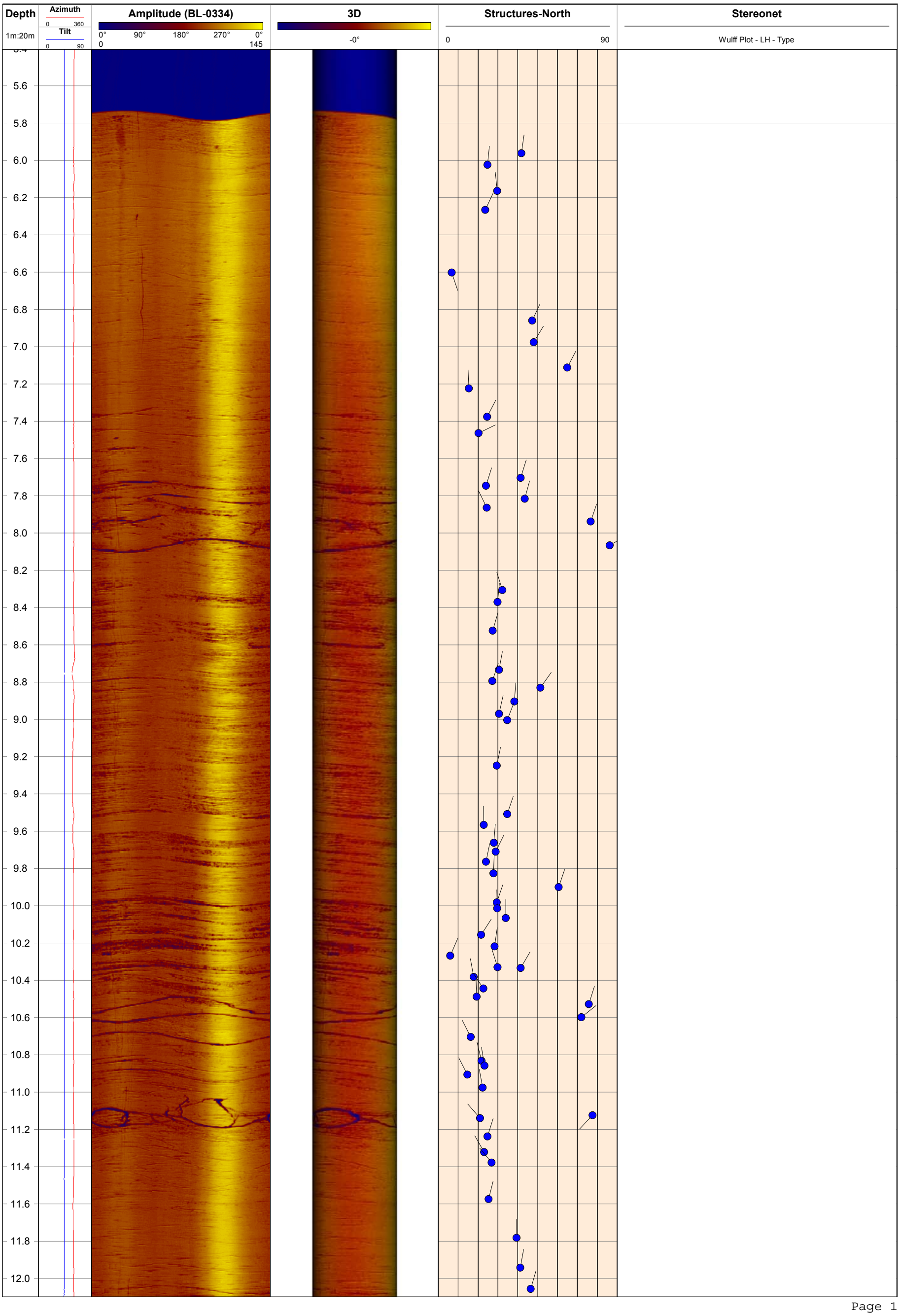
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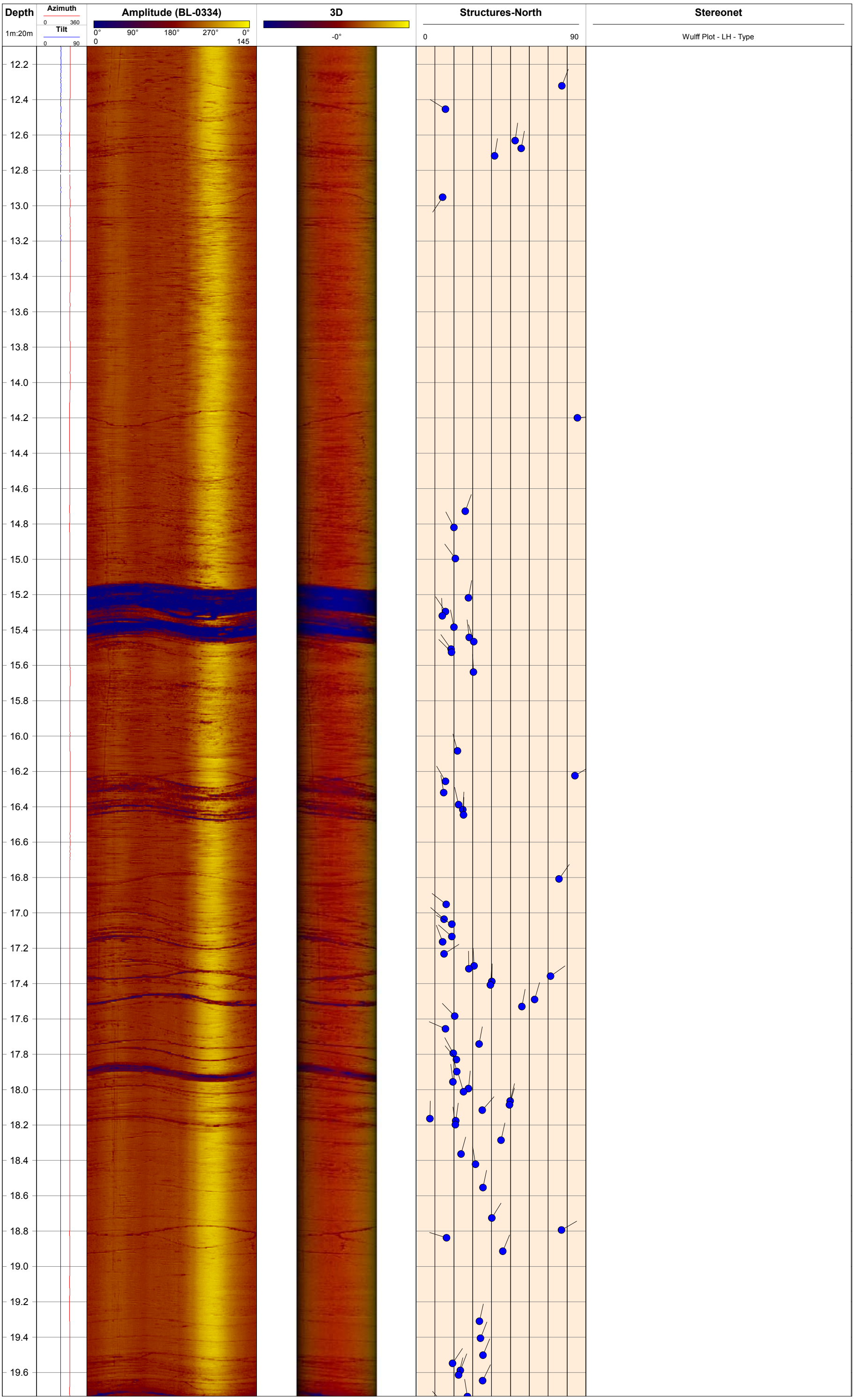
Project Location:	**Springpole, ON**	***Easting:***	**548847.1**
Borehole ID:	**BL-0334**	***Northing:***	**5692193.7**
Report Date:	**December 2019**	***Bearing at the collar:***	**230**
Logging Date:	**September 30, 2019**	***Plunge at the collar:***	**-45**
Logging Depth (m):	**100.2**	***Borehole Depth (m):***	**324**

Client: **First Mining Gold / Gold Canyon Resources**

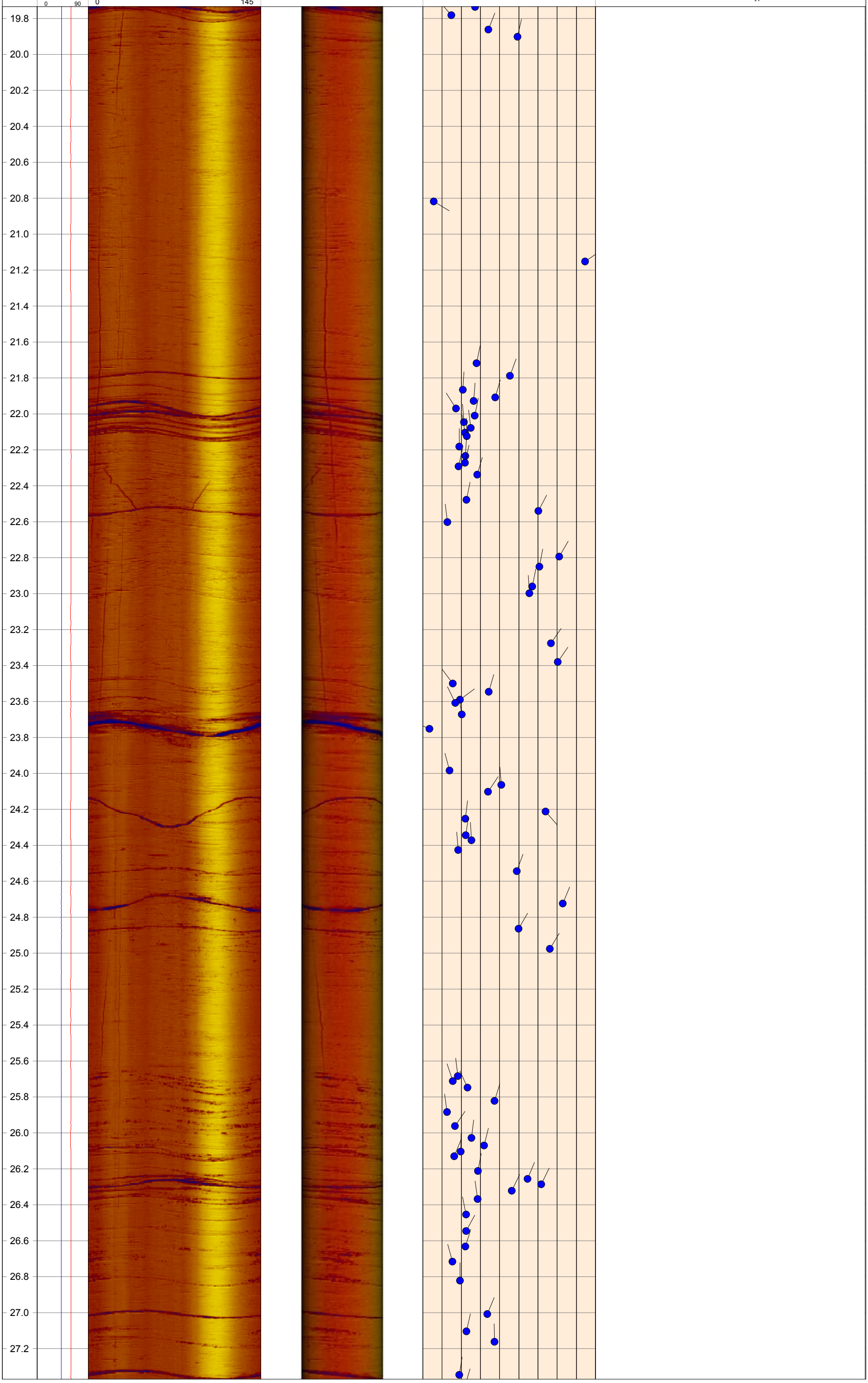
FFC Reference No: **FFC-NL-3134-002**

Figure No.: **D20**

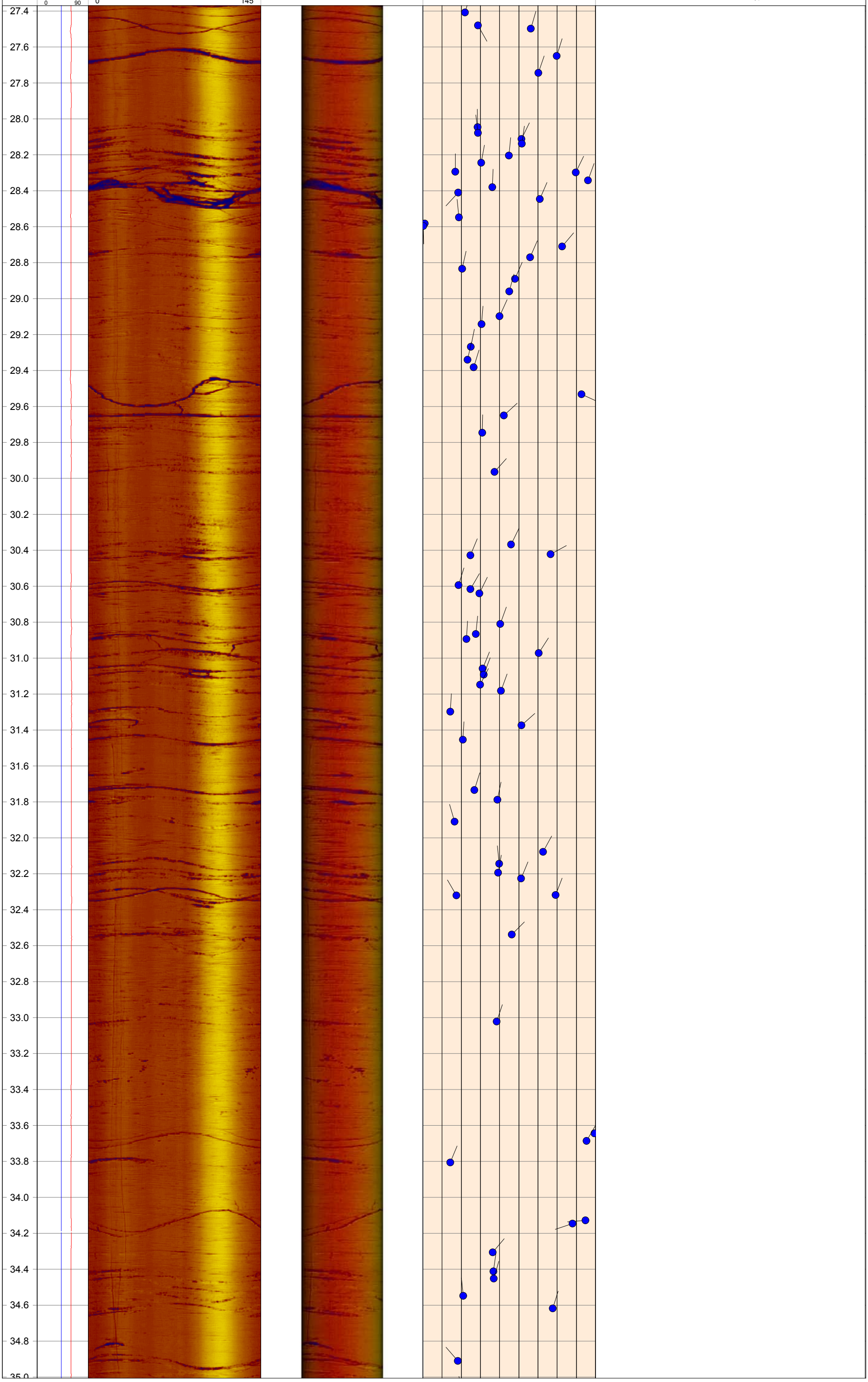



Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0334)
0°
90°
180°
270°
0°
0
145
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
12.2
12.4
12.6
12.8
13.0
13.2
13.4
13.6
13.8
14.0
14.2
14.4
14.6
14.8
15.0
15.2
15.4
15.6
15.8
16.0
16.2
16.4
16.6
16.8
17.0
17.2
17.4
17.6
17.8
18.0
18.2
18.4
18.6
18.8
19.0
19.2
19.4
19.6

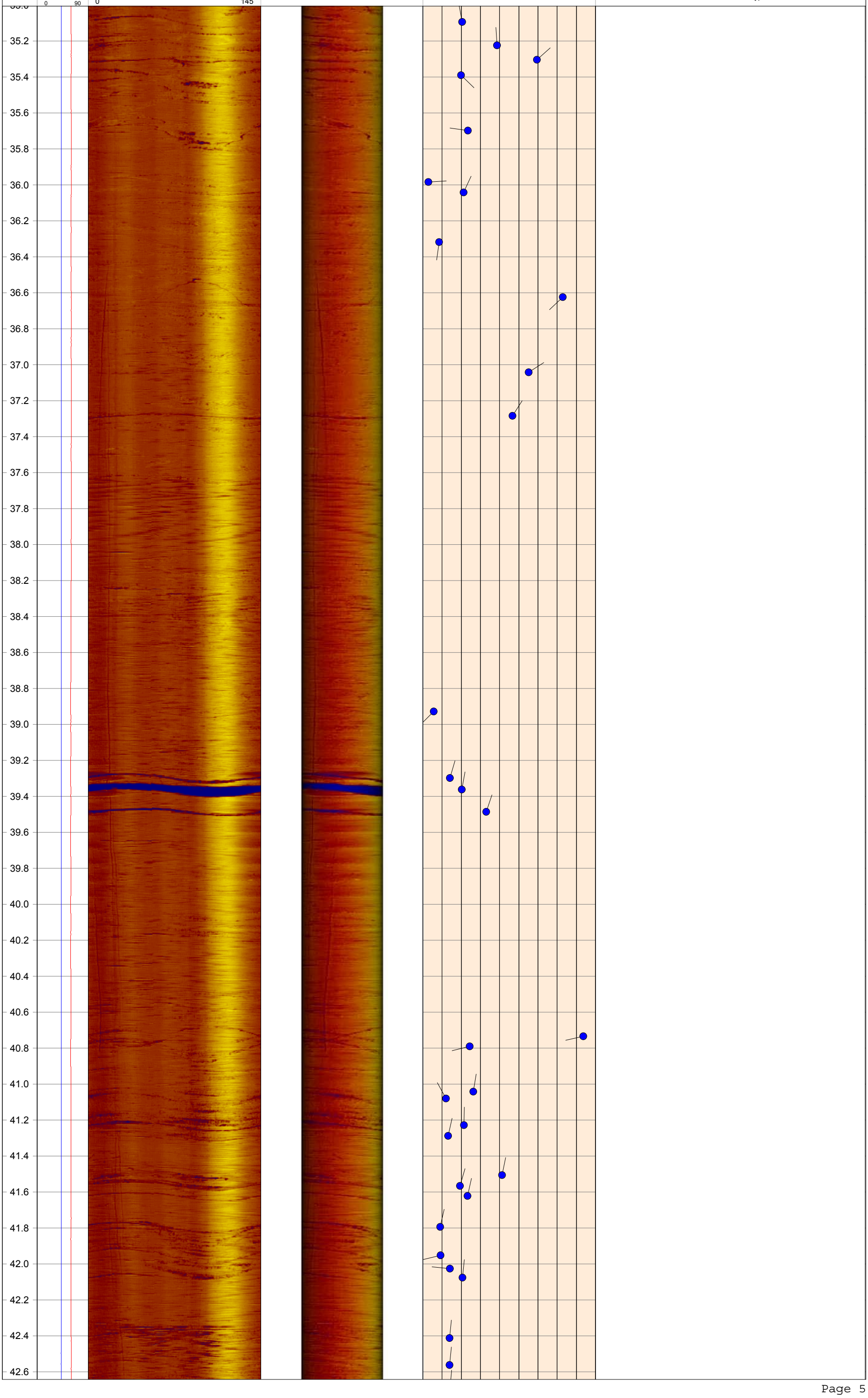
Depth	Azimuth	Amplitude (BL-0334)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



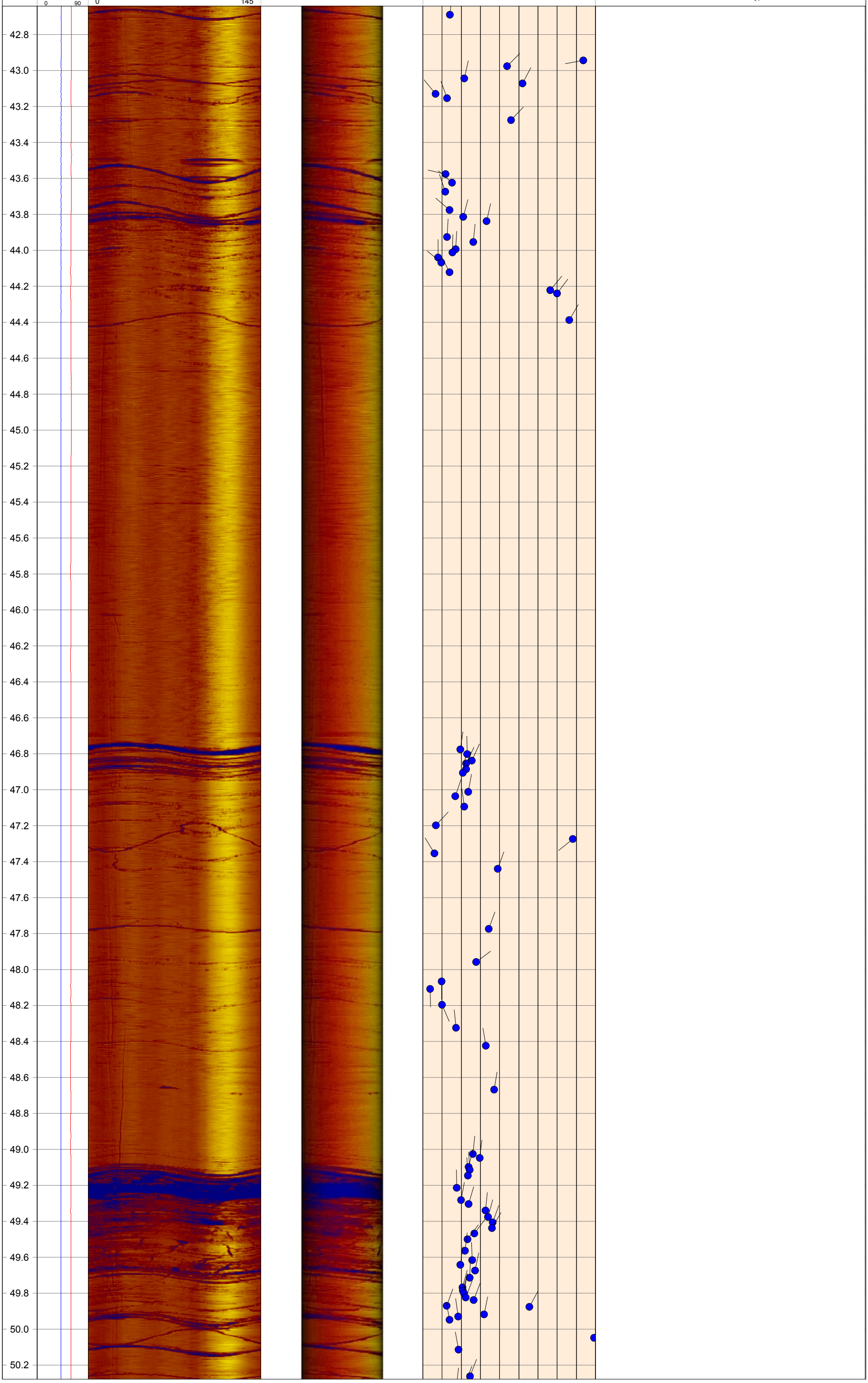
Depth	Azimuth	Amplitude (BL-0334)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



Depth	Azimuth	Amplitude (BL-0334)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



Depth	Azimuth	Amplitude (BL-0334)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



Depth
1m:20m

Azimuth
0 360
Tilt
0 90

Amplitude (BL-0334)
0° 90° 180° 270° 0°
0 145

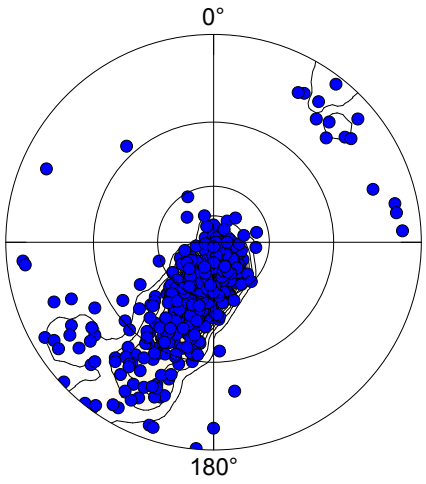
3D
-0°

Structures-North
0 90

Stereonet
Wulff Plot - LH - Type

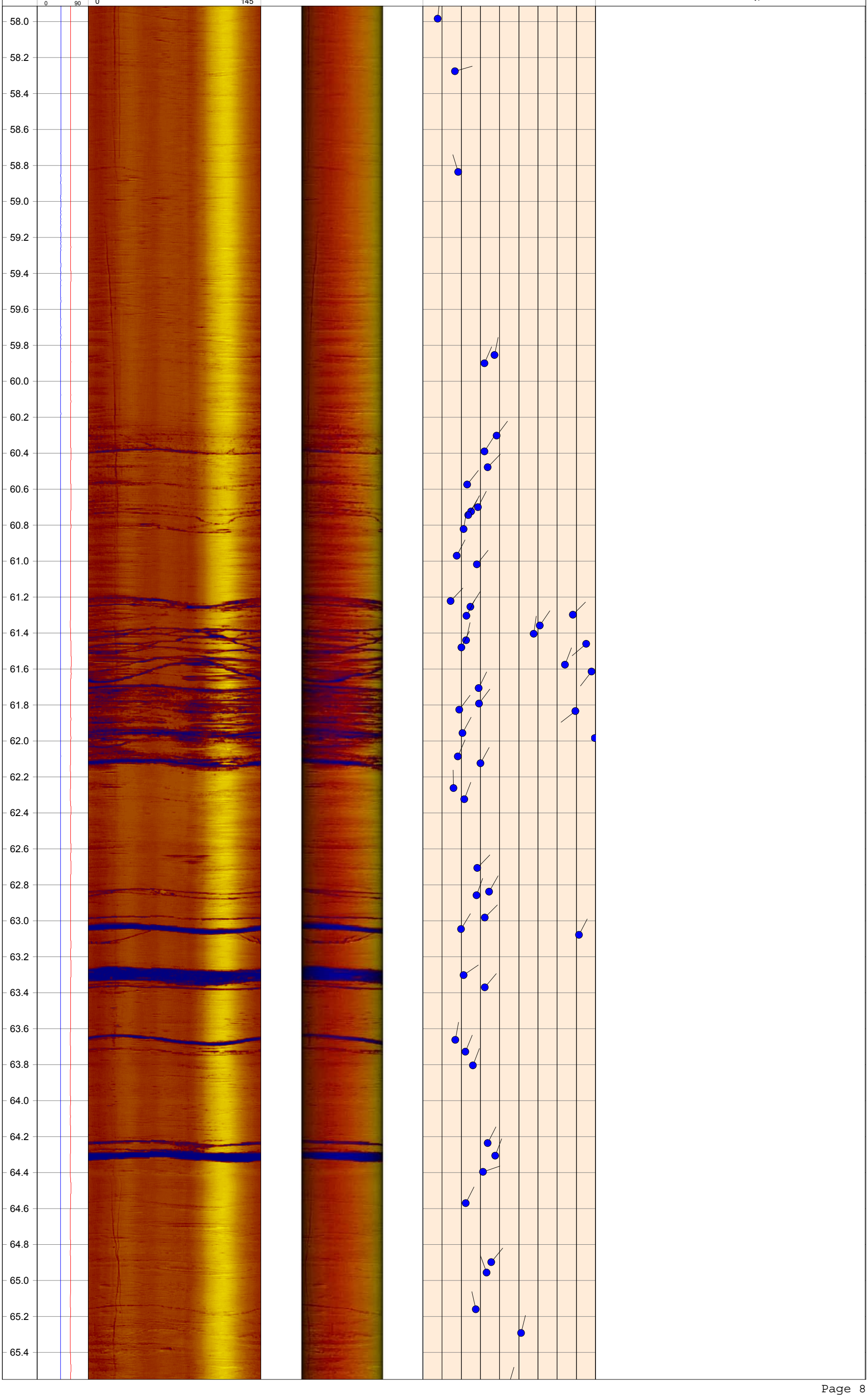
50.4 50.6 50.8 51.0 51.2 51.4 51.6 51.8 52.0 52.2 52.4 52.6 52.8 53.0 53.2 53.4 53.6 53.8 54.0 54.2 54.4 54.6 54.8 55.0 55.2 55.4 55.6 55.8 56.0 56.2 56.4 56.6 56.8 57.0 57.2 57.4 57.6 57.8

Wulff Plot - LH - Type
Depth: 5.80 [m] to 100.20 [m]

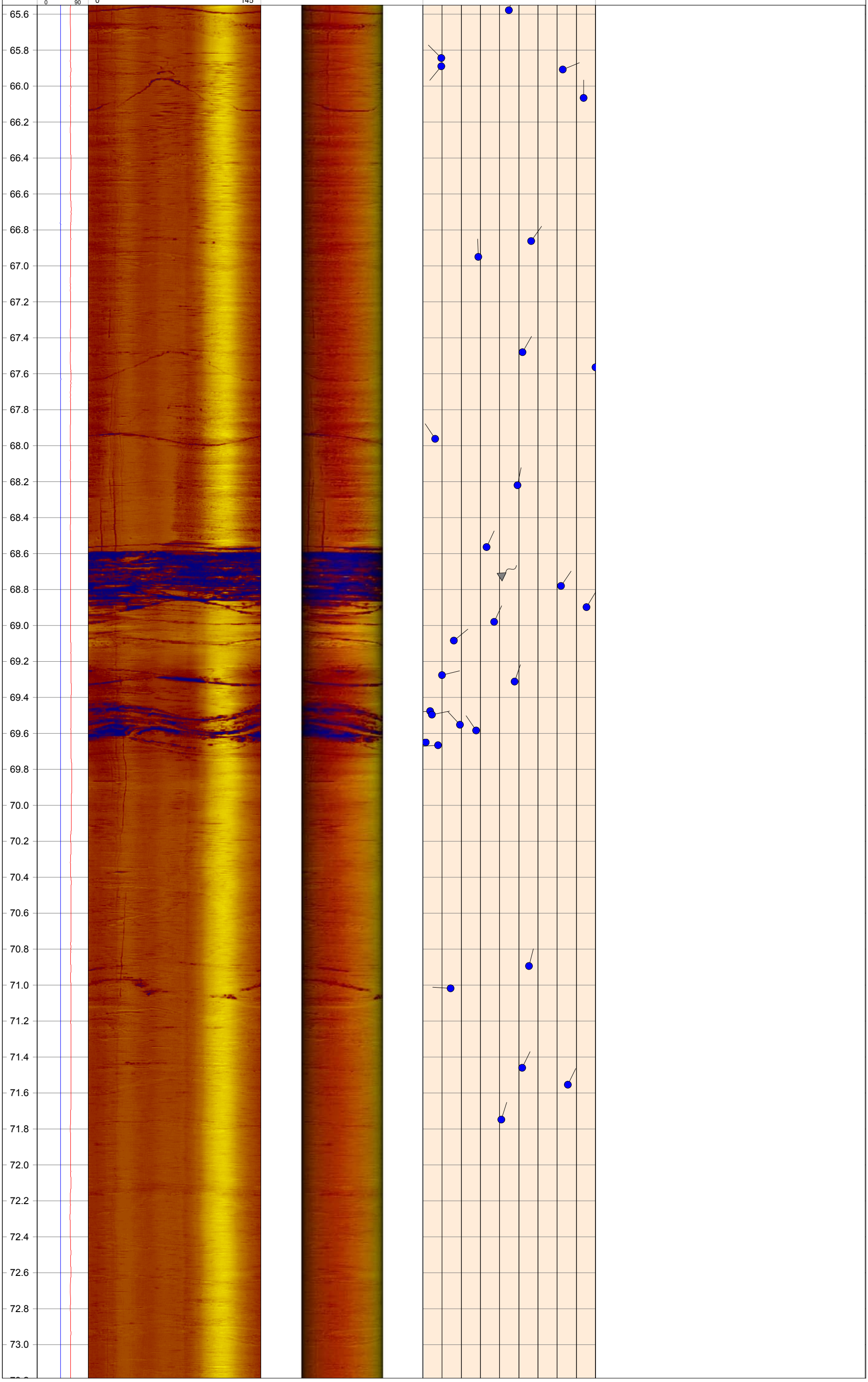


	Counts	Dip[deg]	Azi[deg]
Mean	597	26.88	15.72
●	597	26.88	15.72

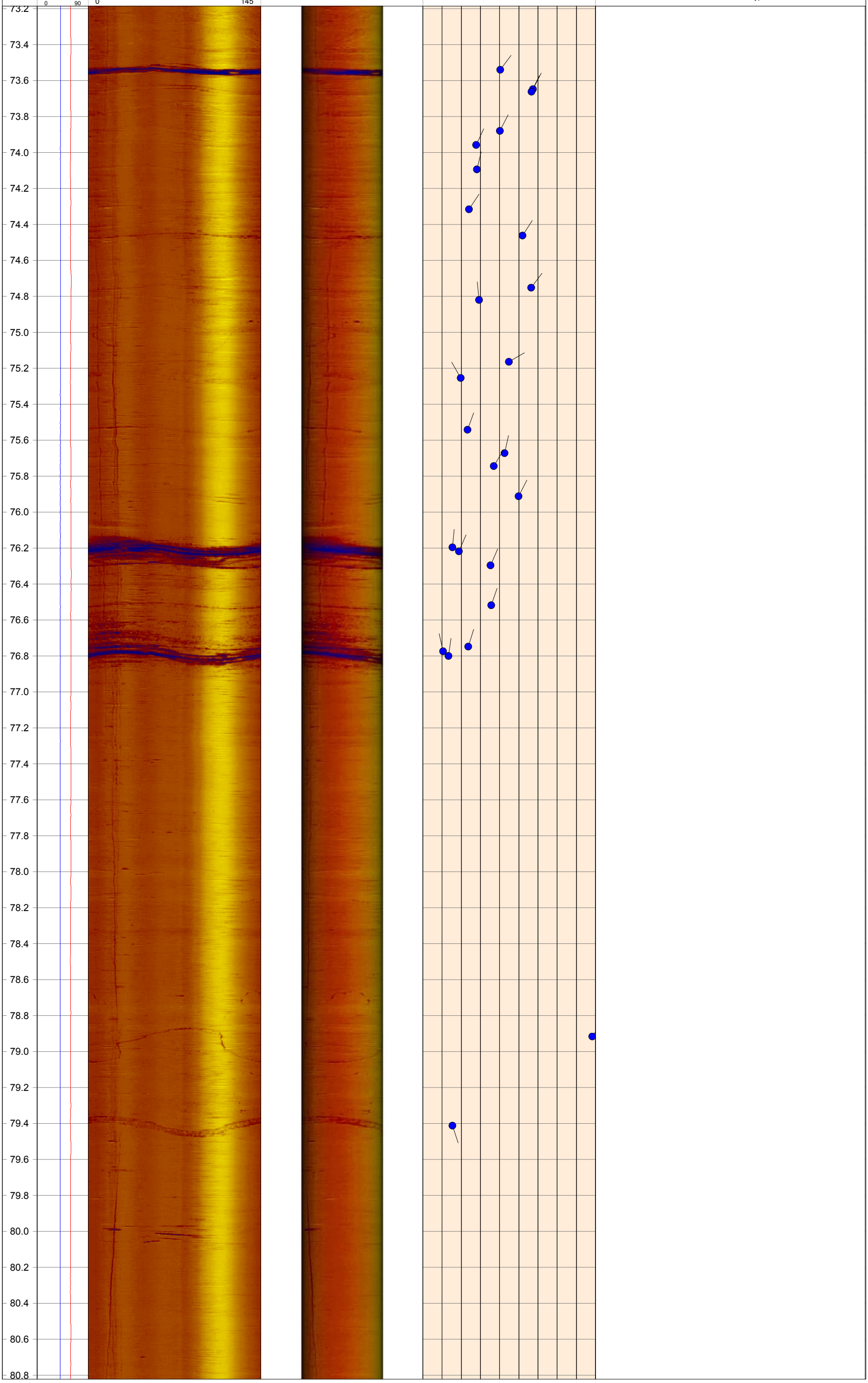
Depth	Azimuth	Amplitude (BL-0334)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



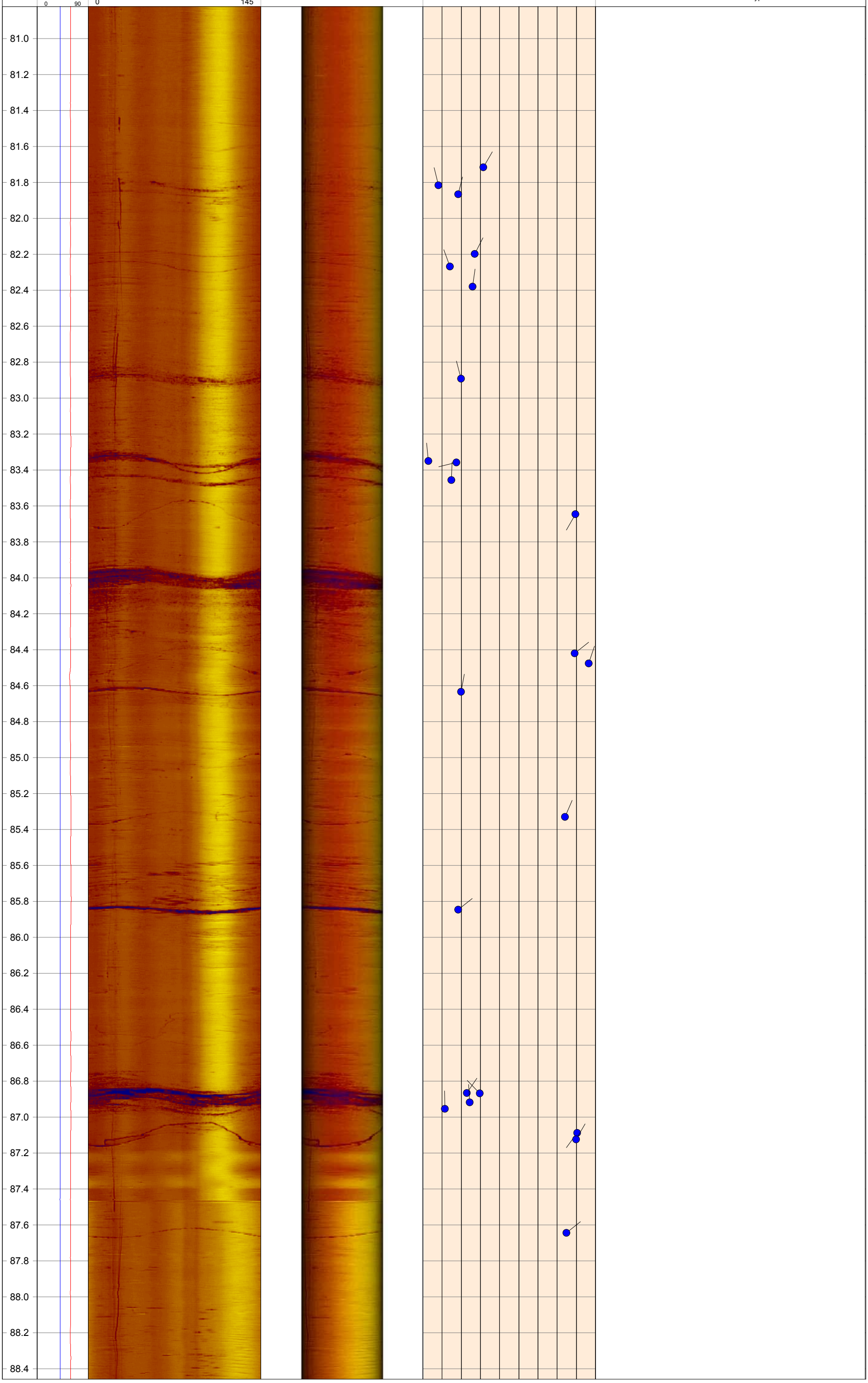
Depth	Azimuth	Amplitude (BL-0334)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



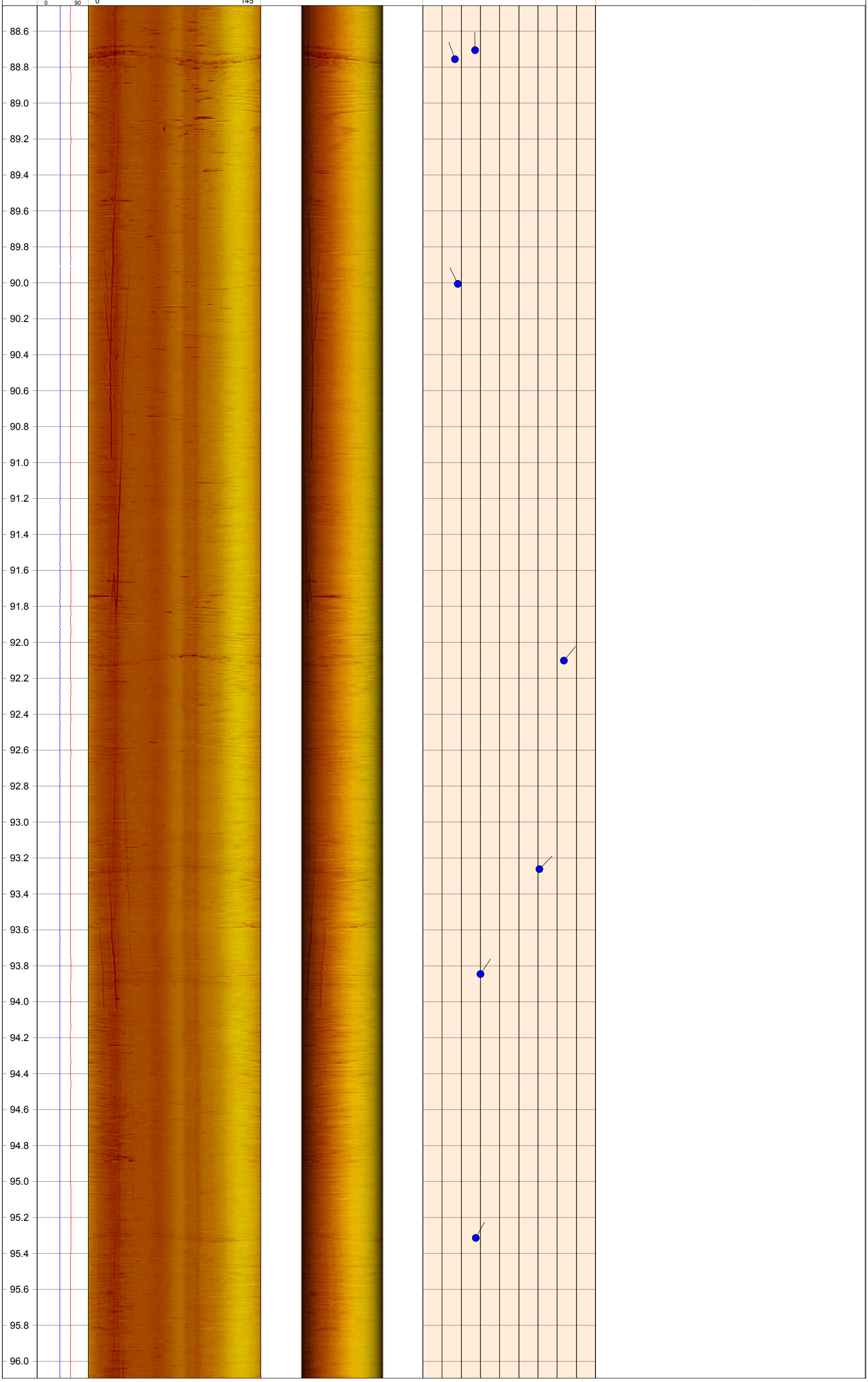
Depth	Azimuth	Amplitude (BL-0334)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				

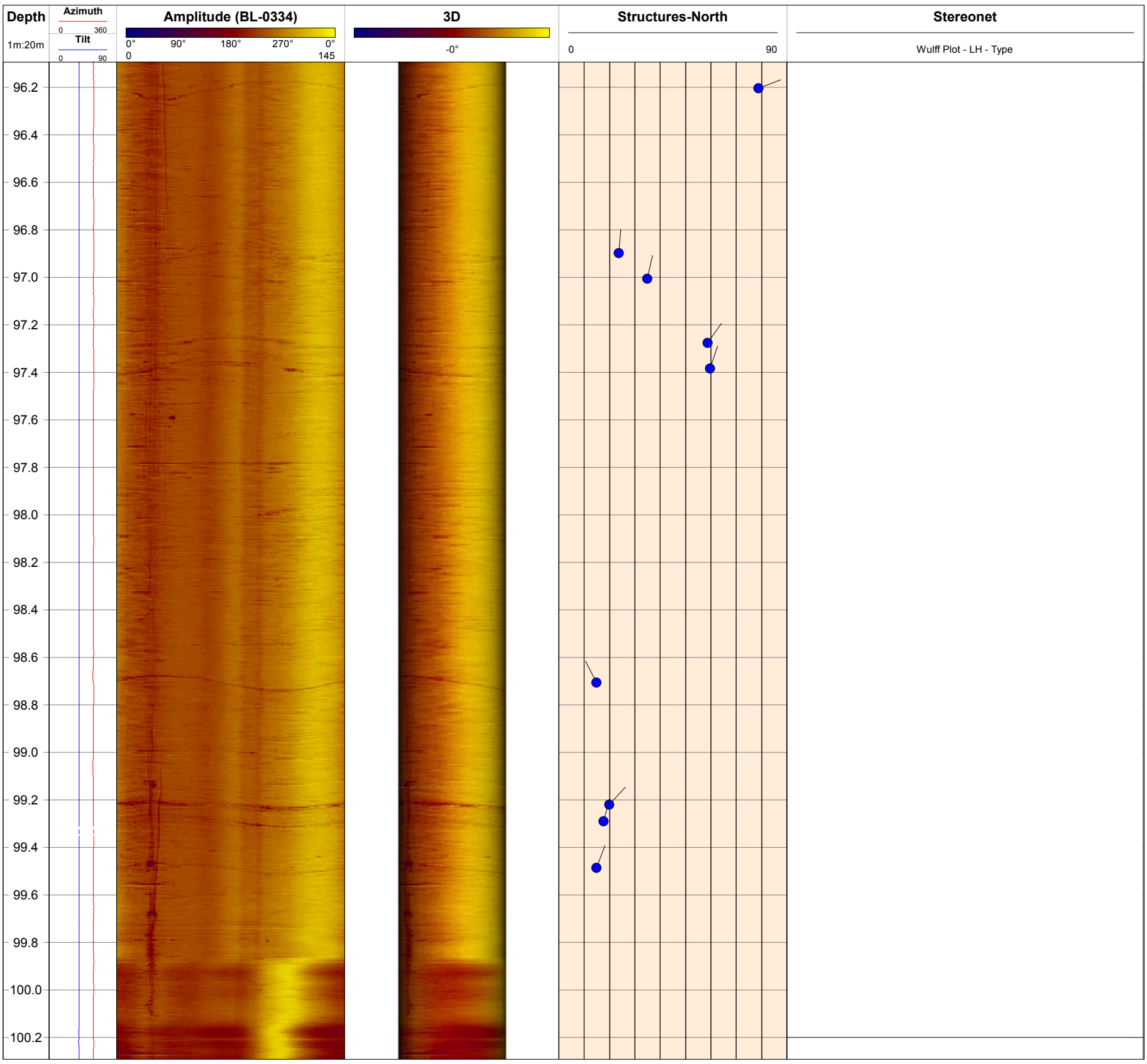


Depth	Azimuth	Amplitude (BL-0334)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				



Depth	Azimuth	Amplitude (BL-0334)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 145			
	0 90				




Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0334)
0°
90°
180°
270°
0°
0
145
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
96.2
96.4
96.6
96.8
97.0
97.2
97.4
97.6
97.8
98.0
98.2
98.4
98.6
98.8
99.0
99.2
99.4
99.6
99.8
100.0
100.2

ACOUSTIC TELEVIEWER LOG

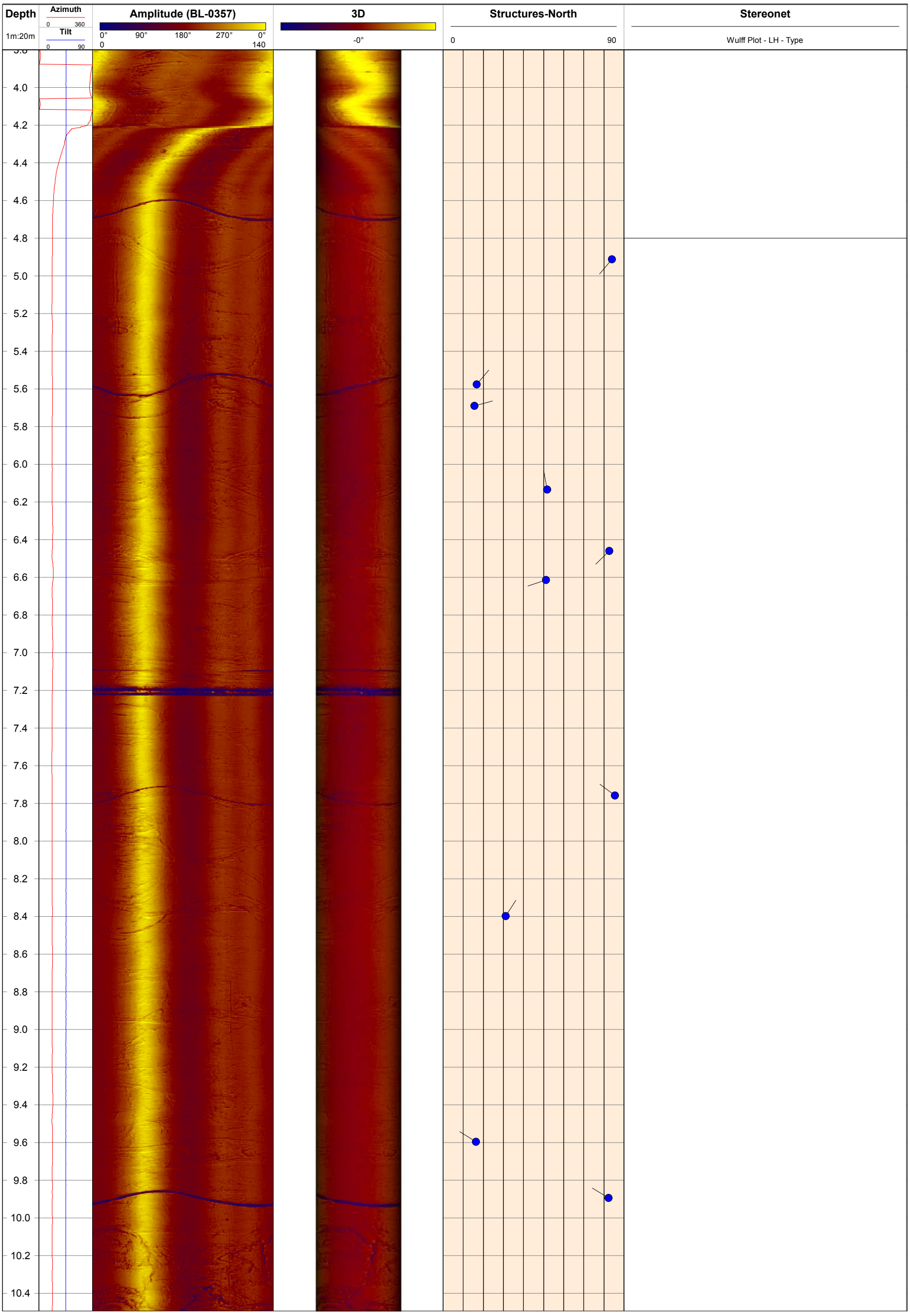
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Environmental, Hydrogeological and
Geotechnical Engineering Consultants

Project Location:	**Springpole, ON**	***Easting:***	**549473.1**
Borehole ID:	**BL-0357**	***Northing:***	**5692454.7**
Report Date:	**December 2019**	***Bearing at the collar:***	**090**
Logging Date:	**September 26, 2019**	***Plunge at the collar:***	**-45**
Logging Depth (m):	**65.3**	***Borehole Depth (m):***	**200.25**

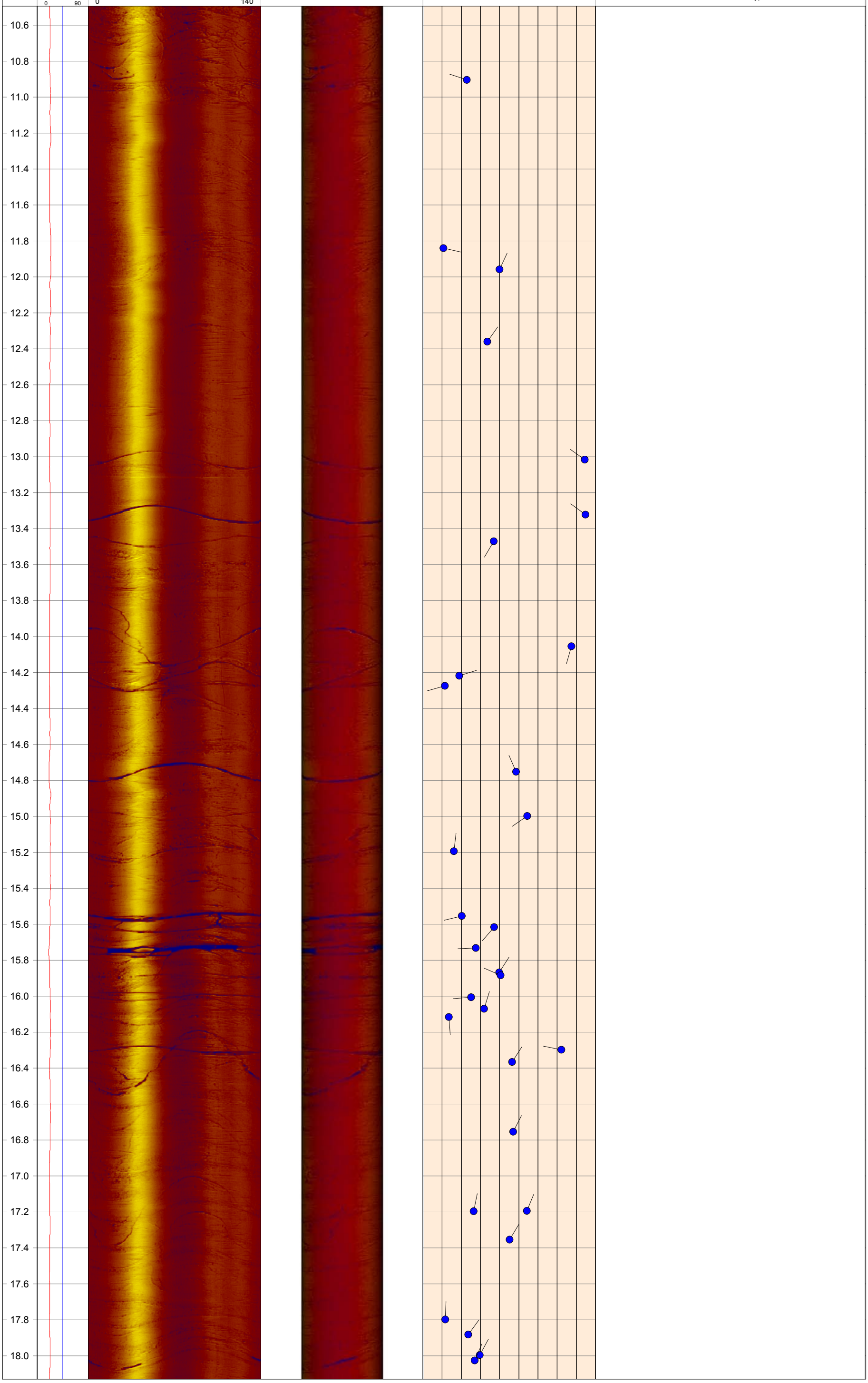
Client: **First Mining Gold / Gold Canyon Resources**

FFC Reference No: **FFC-NL-3134-002**

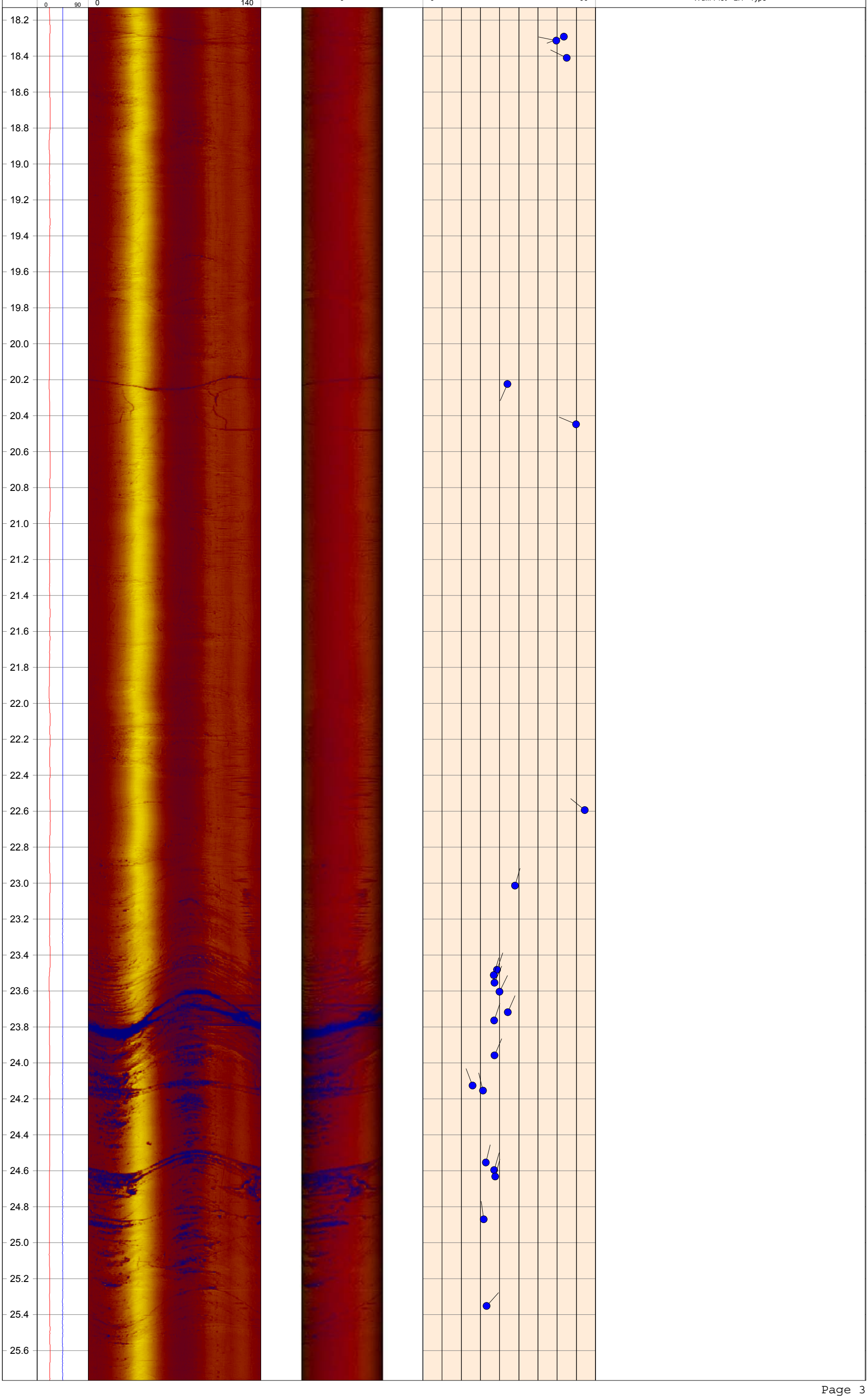
Figure No.: **D21**

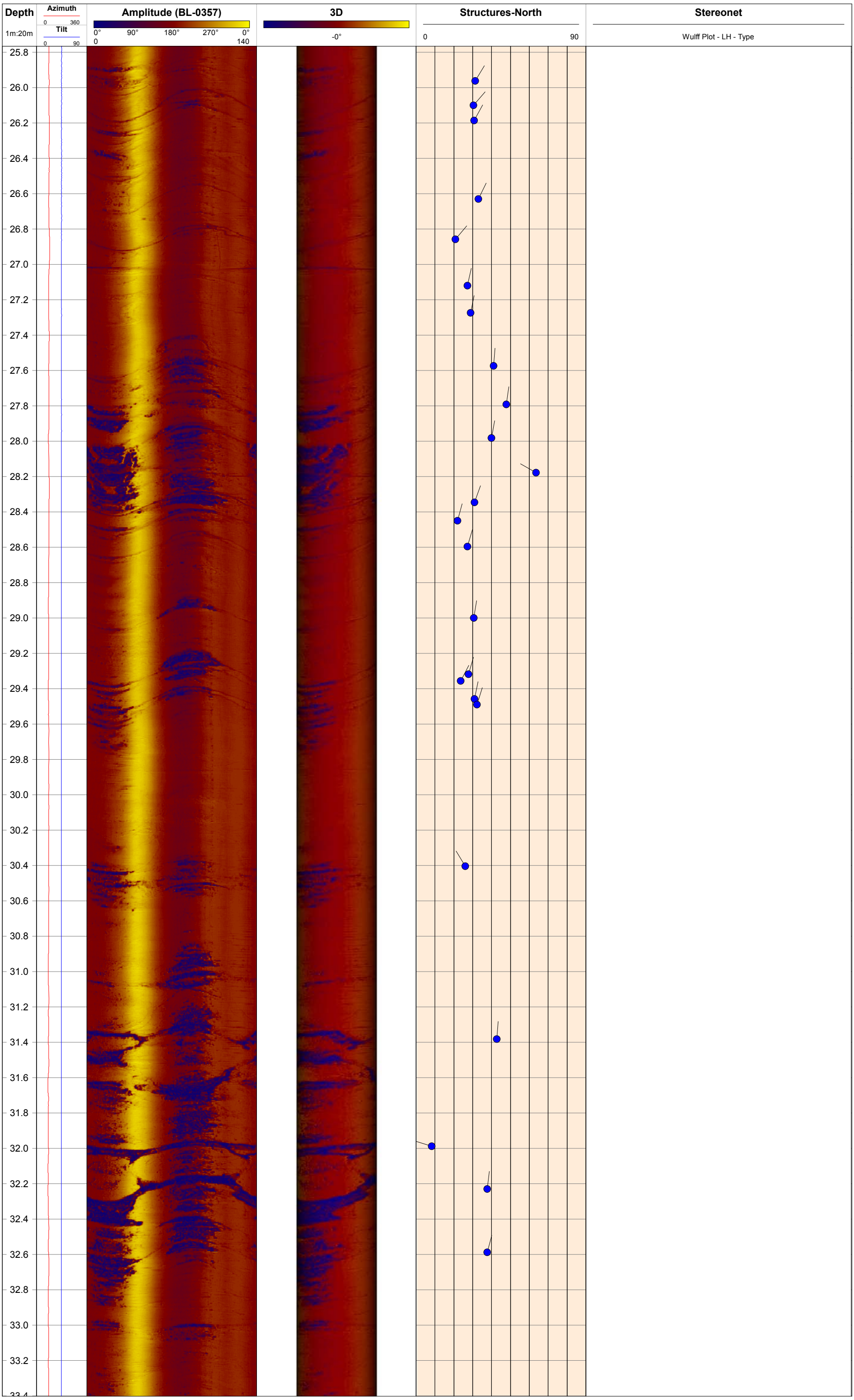


Depth	Azimuth	Amplitude (BL-0357)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				

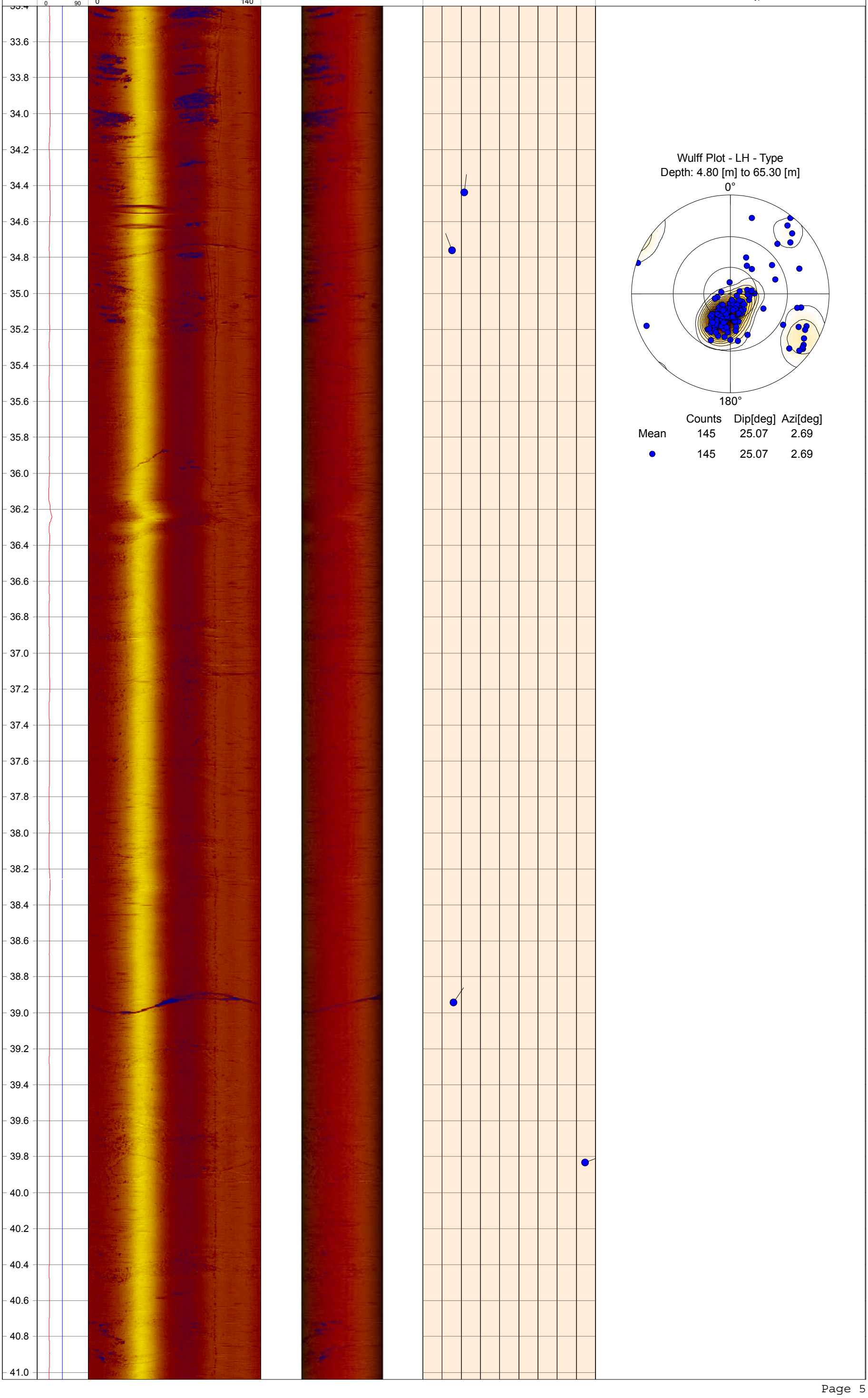


Depth	Azimuth	Amplitude (BL-0357)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				




Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0357)
0°
90°
180°
270°
0°
0
140
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
25.8
26.0
26.2
26.4
26.6
26.8
27.0
27.2
27.4
27.6
27.8
28.0
28.2
28.4
28.6
28.8
29.0
29.2
29.4
29.6
29.8
30.0
30.2
30.4
30.6
30.8
31.0
31.2
31.4
31.6
31.8
32.0
32.2
32.4
32.6
32.8
33.0
33.2

Depth	Azimuth	Amplitude (BL-0357)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				

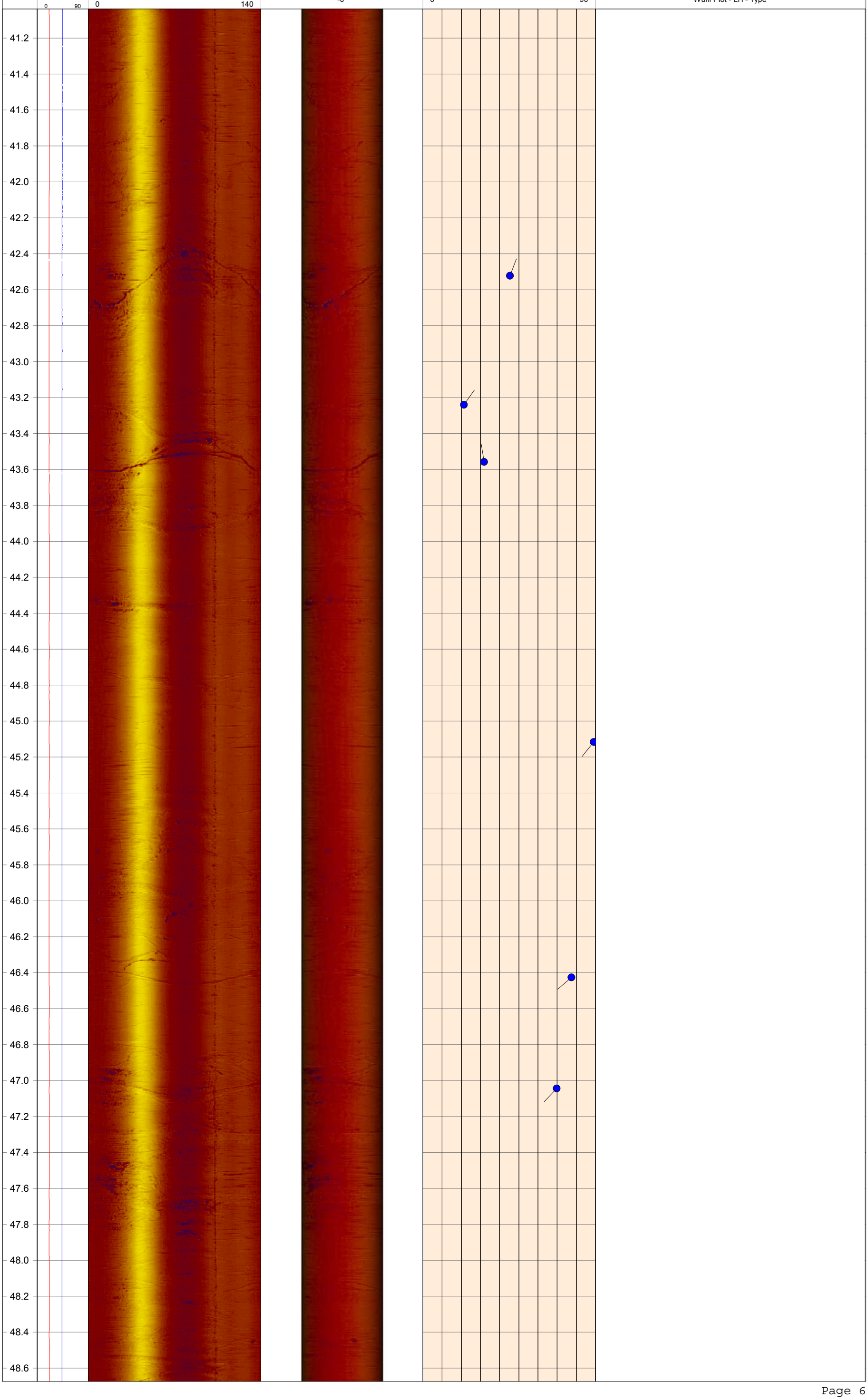


Wulff Plot - LH - Type
Depth: 4.80 [m] to 65.30 [m]
0°

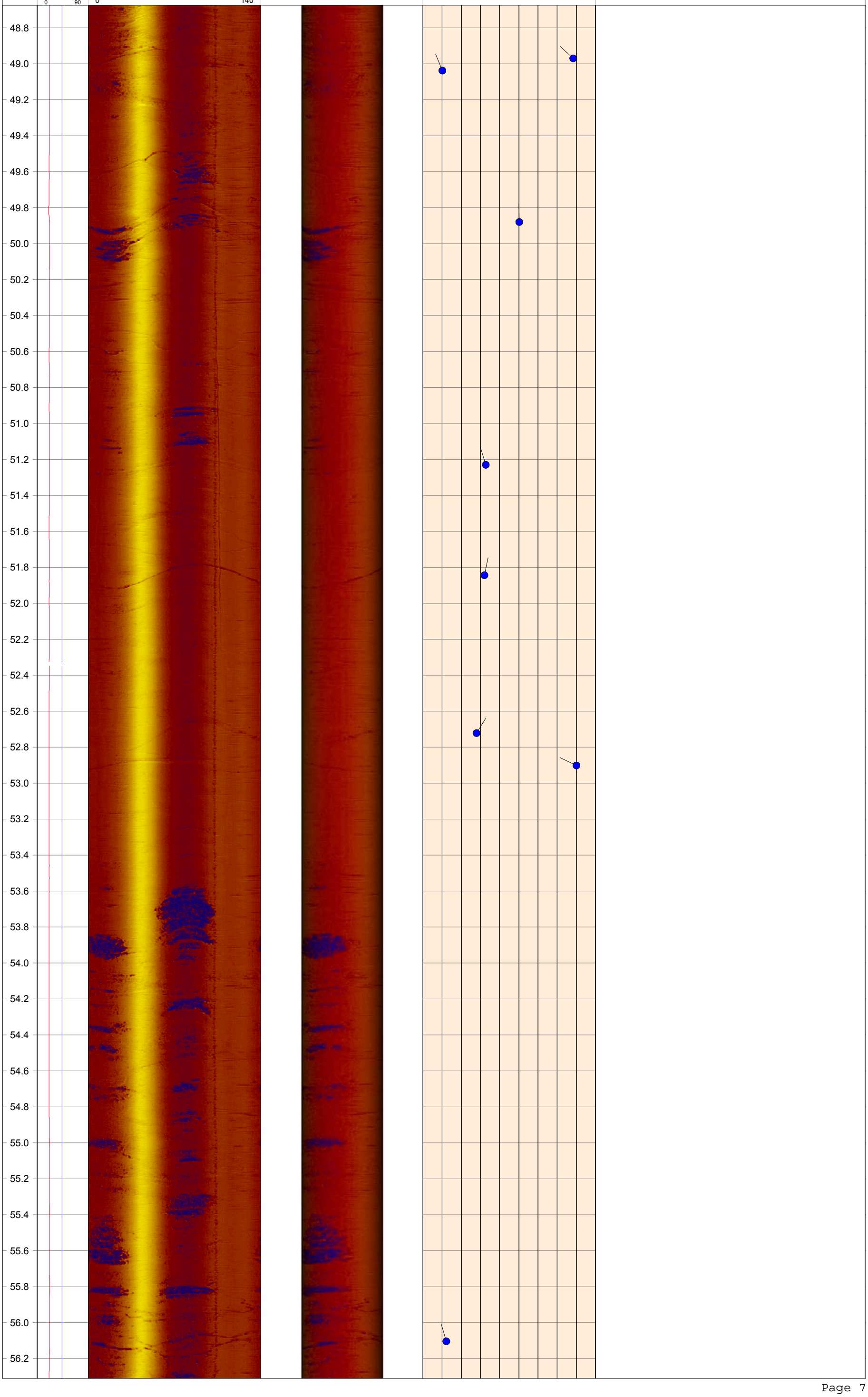
180°

	Counts	Dip[deg]	Azi[deg]
Mean	145	25.07	2.69
●	145	25.07	2.69

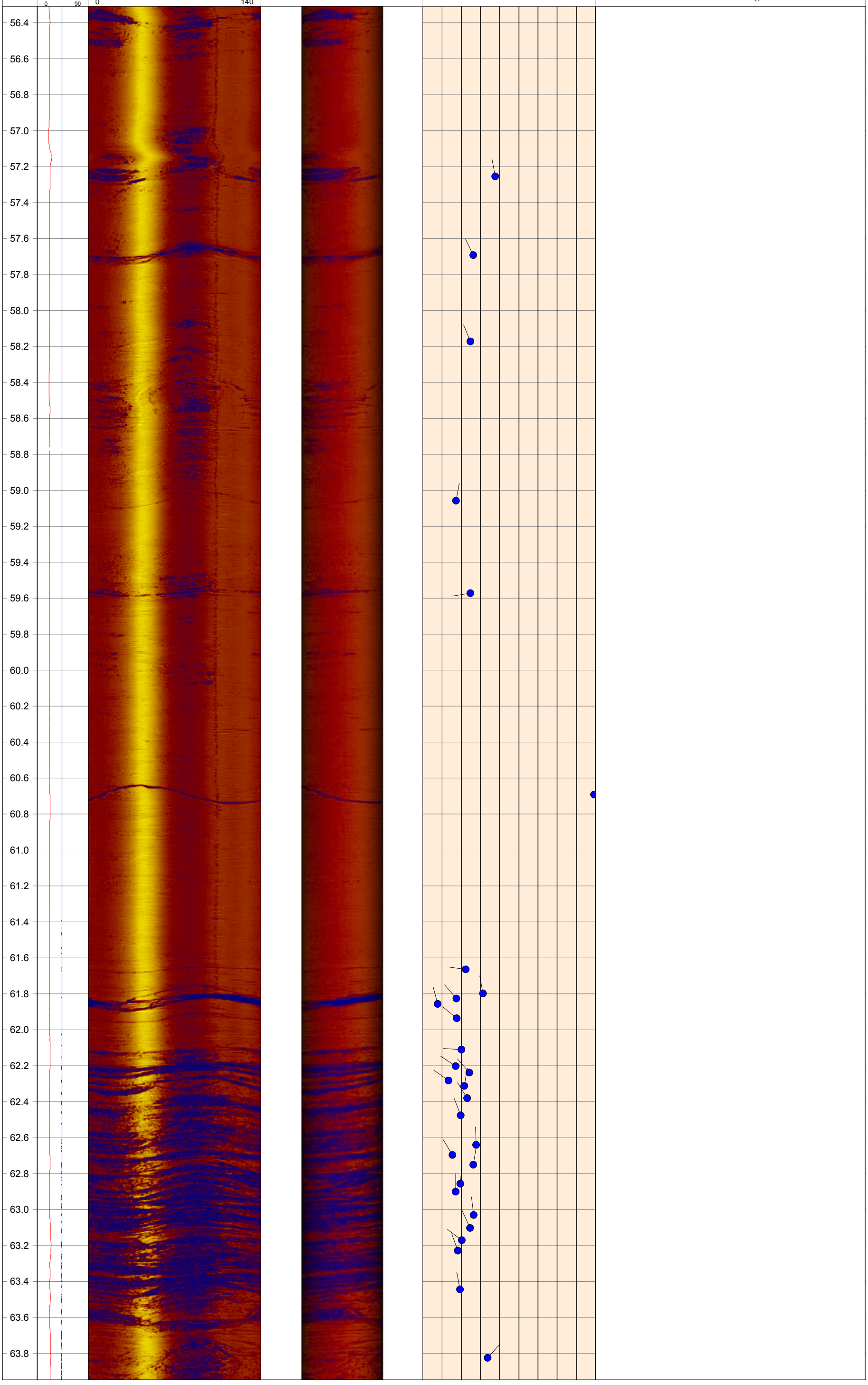
Depth	Azimuth	Amplitude (BL-0357)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				

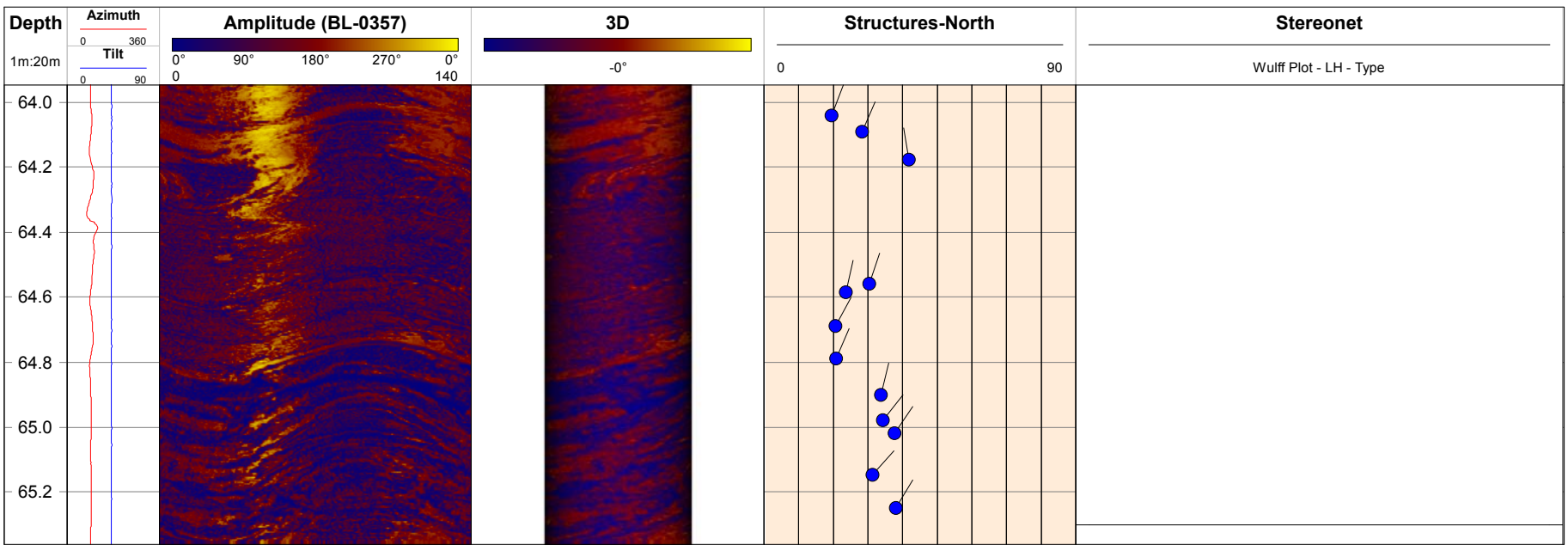


Depth	Azimuth	Amplitude (BL-0357)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				



Depth	Azimuth	Amplitude (BL-0357)	3D	Structures-North	Stereonet
1m:20m	0 360	0° 90° 180° 270° 0°	-0°	0 90	Wulff Plot - LH - Type
	Tilt	0 140			
	0 90				




Depth
1m:20m
Azimuth
0
360
Tilt
0
90
Amplitude (BL-0357)
0°
90°
180°
270°
0°
0
140
3D
-0°
Structures-North
0
90
Stereonet
Wulff Plot - LH - Type
64.0
64.2
64.4
64.6
64.8
65.0
65.2

APPENDIX E

Borehole Air-Lift Test Data

Table E1 Field measured air-lift test data (Page 1 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0024		12-Jul-19		6165	2	3.86	TOC				
	Logger Start		14:46:00								2624
	Logger End		16:03:00								
	Start Air		15:02:30								
	Stop Air		15:27:30								
								15:05:00	15:07:40	15.1	2148
								15:07:40	15:10:23	15.2	2111
								15:10:23	15:13:42	14.9	2162
								15:13:42	15:17:16	14.9	2207
								15:17:16	15:20:44	14.3	2193
								15:20:44	15:23:44	13.5	2179
								15:23:44	15:26:41	14.9	2134
BL-0030		12-Jul-19		6422	1.5	4.021	TOC				
	Logger Start		13:22:50								2040
	Logger End		16:51:00								
	Start Air		13:38:00								
	Stop Air		14:03:35								
								13:43:00	13:47:00	8	1528
								13:47:00	13:55:00	6.9	1538
								13:55:00	14:03:00	1.3	1572

Table E1 Field measured air-lift test data (Page 2 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0046		17-Jul-19		6422	1.5	2.865	TOC				
	Logger Start		08:36:00								2289
	Logger End		09:47:00								
	Start Air		08:55:45								
	Stop Air		09:19:00								
								08:58:00	08:59:42	15	1981
								08:59:42	09:01:37	16.2	1914
								09:01:37	09:03:37	15.5	1956
								09:03:37	09:05:34	16	1945
								09:05:34	09:07:29	15.3	1943
								09:07:29	09:09:26	16.8	1894
								09:09:26	09:11:13	15	1926
								09:11:13	09:13:17	15.2	1939
								09:13:17	09:15:06	15.1	1974
								09:15:06	09:16:55	14.6	1966
								09:16:55	09:18:31	15	1967
BL-0047		16-Jul-19		6422	1.5	2.43	TOC				
	Logger Start		10:59:00								2313
	Logger End		13:33:00								
	Start Air		11:17:00								
	Stop Air		11:40:00								
								11:18:50	11:22:50	16.1	1731
								11:22:50	11:26:50	14.3	1726
								11:26:50	11:30:50	14.5	1703
								11:30:50	11:34:50	13.5	1682
								11:34:50	11:38:50	13	1756

Table E1 Field measured air-lift test data (Page 3 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0048	16-Jul-19			6422	1.5	4.261	TOC				
	Logger Start		13:43:00								2180
	Logger End		14:44:00								
	Start Air		14:04:45								
	Stop Air		14:24:30								
								14:07:04	14:10:04	17.8	2002
								14:10:04	14:12:00	16.5	1928
								14:12:00	14:14:05	16.9	1935
								14:14:05	14:16:09	14.3	1978
								14:16:09	14:18:14	15.8	1928
								14:18:14	14:19:58	15.7	1896
								14:19:58	14:22:13	15.1	1975
								14:22:13	14:24:11	17	1935
BL-0049		16-Jul-19		6165	2	1.332	TOC				
	Logger Start		09:46:00								2640
	Logger End		15:12:00								
	Start Air		10:10:30								
	Stop Air		10:33:10								
								10:13:00	10:13:55	15.2	1973
								10:13:55	10:15:17	15	1964
								10:15:17	10:16:44	14.1	1992
								10:16:44	10:18:43	16.2	1984
								10:18:43	10:20:08	15.3	1945
								10:20:08	10:21:49	17	1960
								10:21:49	10:23:50	16.9	1960
								10:23:50	10:25:39	15	1940
								10:25:39	10:27:10	15.1	1959
								10:27:10	10:29:01	16.4	1989
								10:29:01	10:30:45	15.9	1951
								10:30:45	10:32:43	16	1970

Table E1 Field measured air-lift test data (Page 4 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0052		17-Jul-19		6165	2	7.324	TOC				
	Logger Start	16-Jul-19	16:25:00								2438
	Logger End	17-Jul-19	10:10:00								
	Start Air	17-Jul-19	07:37:00								
	Stop Air	17-Jul-19	08:01:45								
								07:41:30	07:45:30	3	2195
								07:45:30	07:50:30	3.5	2158
								07:50:30	07:55:30	1.5	2240
								07:55:30	08:01:30	6.2	2156
BL-0057		15-Jul-19		6422	1.5	3.7	TOC				
	Logger Start		14:22:00								2190
	Logger End		15:05:00								
	Start Air		14:34:30								
	Stop Air		14:49:00								
								14:37:00	14:37:34	14.5	1966
								14:37:34	14:38:04	15.4	1936
								14:38:04	14:38:38	16	1952
								14:38:38	14:39:08	14.7	1952
								14:39:08	14:39:38	14.7	1947
								14:39:38	14:40:09	14.9	1945
								14:40:09	14:40:41	15.5	1950
								14:40:41	14:41:12	14.7	1939
								14:41:12	14:41:36	15.3	1939
								14:41:36	14:42:16	14.7	1959
								14:42:16	14:42:48	14.8	1930
								14:42:48	14:43:18	14.5	1941
								14:43:18	14:43:53	15.7	1940
								14:43:53	14:44:24	15.3	1975
								14:44:24	14:44:58	15.7	1969
								14:44:58	14:45:43	15.5	1926
								14:45:43	14:46:06	15.5	1931
								14:46:06	14:46:38	14.7	1937
								14:46:38	14:47:13	14.8	1965
								14:47:13	14:47:47	15.7	1943
								14:47:47	14:48:30	15.1	1938

Table E1 Field measured air-lift test data (Page 5 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0059		15-Jul-19		6165	2	2.679	TOC				
	Logger Start		11:37:00								2461
	Logger End		15:24:00								
	Start Air		13:45:30								
	Stop Air		14:08:00								
								13:47:34	13:52:00	9.2	1962
								13:52:00	13:57:00	13.9	1944
								13:57:00	14:02:00	14.6	1938
								14:02:00	14:07:00	14.2	1942
BL-0077		11-Jul-19		6165	2	4.416	TOC				
	Logger Start		07:56:37								2573
	Logger End		10:07:25								
	Start Air		08:39:27								
	Stop Air		09:04:35								
								08:44:00	08:48:00	14	2111
								08:48:00	08:52:00	15	2093
								08:52:00	08:56:00	13.9	2082
								08:56:00	09:00:00	11.9	2094
								09:00:00	09:04:00	12	2108
BL-0090		13-Jul-19		6165	2	3.519	TOC				
	Logger Start	12-Jul-19	16:19:00								2219
	Logger End	13-Jan-19	16:35:00								
	Start Air	13-Jan-19	08:09:00								
	Stop Air	13-Jan-19	08:31:15								
								08:13:00	08:31:00	1.1	1850
BL-0098		12-Jul-19		6165	2	2.564	TOC				
	Logger Start		09:15:00								2553
	Logger End		14:35:00								
	Start Air		10:02:20								
	Stop Air		10:33:30								
								10:06:01	10:11:00	2.3	2116
								10:11:00	10:16:00	2.8	2079
								10:16:00	10:21:00	1.9	2116
								10:21:00	10:26:00	2	2073
								10:26:00	10:31:00	1.2	2131

Table E1 Field measured air-lift test data (Page 6 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0102		11-Jul-19		6165	2	--	TOC				
	Logger Start	11-Jul-19	15:31:00								2290
	Logger End	12-Jul-19	07:49:00								
	Start Air	11-Jul-19	15:55:00								
	Stop Air	11-Jul-19	16:19:48								
								15:55:00	16:19:48	13	2020
BL-0104		10-Jul-19		6165	2	5.796	TOC				
	Logger Start	10-Jul-19	15:34:43								2680
	Logger End	11-Jul-19	07:46:00								
	Start Air	10-Jul-19	16:14:36								
	Stop Air	10-Jul-19	16:43:10								
								16:20:30	16:23:00	16.9	2234
								16:24:30	16:26:30	17.1	2228
								16:26:30	16:29:00	19.9	2180
								16:29:00	16:31:00	17.9	2198
								16:31:00	16:33:00	16.1	2191
								16:33:00	16:35:00	16.5	2206
								16:35:00	16:37:00	15.1	2224
								16:37:00	16:39:00	15	2212
								16:39:00	16:41:00	14	2216
								16:41:00	16:43:00	14	2238
BL-0111		16-Jul-19		6165	2	3.346	TOC				
	Logger Start		07:37:00								2847
	Logger End		09:29:00								
	Start Air		08:24:10								
	Stop Air		08:50:10								
								08:27:00	08:32:00	9.9	2145
								08:32:00	08:36:00	8	2127
								08:36:00	08:42:00	16.2	2096
								08:42:00	08:46:00	13.9	2095
								08:46:00	08:50:00	10.5	2098

Table E1 Field measured air-lift test data (Page 7 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0219		13-Jul-19		6422	1.5	8.051	TOC				
	Logger Start		14:00:00								2232
	Logger End		15:51:00								
	Start Air		14:31:00								
	Stop Air		15:00:25								
								14:34:00	14:40:00	14.1	1715
								14:40:00	14:46:00	7.9	1745
								14:46:00	14:52:00	9.5	1783
								14:52:00	14:59:00	7.2	1881
BL-0226		13-Jul-19		6422	1.5	1.907	TOC				
	Logger Start		11:39:00								2719
	Logger End		13:50:00								
	Start Air		13:04:00								
	Stop Air		13:24:00								
								13:08:23	13:09:01	15.1	2007
								13:09:01	13:09:39	15.3	1991
								13:09:39	13:10:22	15.2	1993
								13:10:22	13:11:02	13.3	1998
								13:11:02	13:11:47	16.9	1987
								13:11:47	13:13:00	17	1979
								13:13:00	13:13:53	17.3	2077
								13:13:53	13:14:45	18	2015
								13:14:45	13:15:37	16	2011
								13:15:37	13:16:21	14.9	2012
								13:16:21	13:17:01	15.1	2020
								13:17:01	13:17:50	16	2060
								13:17:50	13:18:45	17.8	2046
								13:18:45	13:19:43	18.7	2011
								13:19:43	13:20:44	19.5	2005
								13:20:44	13:21:40	17.3	1991
								13:21:40	13:22:26	15.2	1976
								13:22:26	13:23:15	17.8	1987

Table E1 Field measured air-lift test data (Page 8 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0230		14-Jul-19		6422	1.5	4.913	TOC				
	Logger Start		10:46:00								2471
	Logger End		13:14:00								
	Start Air		11:02:15								
	Stop Air		11:23:19								
								11:04:31	11:05:30	14.3	2073
								11:05:30	11:06:32	13	2008
								11:06:32	11:07:51	14.9	1986
								11:07:51	11:09:23	14.1	2041
								11:09:23	11:10:47	12.2	2083
								11:10:47	11:12:54	14.7	2104
								11:12:54	11:14:51	14	2099
								11:14:51	11:17:28	13.3	2120
								11:17:28	11:19:43	13.2	2160
								11:19:43	11:22:43	13.5	2207

Table E1 Field measured air-lift test data (Page 9 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0283		11-Jul-19		6165	2	3.369	TOC				
	Logger Start		10:27:00								2304
	Logger End		13:07:00								
	Start Air		10:52:00								
	Stop Air		11:15:00								
								10:55:00	10:55:42	17.5	2050
								10:55:42	10:56:31	17.9	2055
								10:56:31	10:57:17	17.8	2020
								10:57:17	10:58:06	17.8	2030
								10:58:06	10:58:51	15.5	2025
								10:58:51	10:59:13	17.5	2025
								10:59:13	10:59:54	16.9	2010
								10:59:54	11:00:55	16.2	2020
								11:00:55	11:02:00	16.1	2015
								11:02:00	11:03:04	18	2005
								11:03:04	11:04:19	16.8	2000
								11:04:19	11:05:34	17.2	2000
								11:05:34	11:06:54	17.7	1995
								11:06:54	11:08:12	15.8	2000
								11:08:12	11:09:14	14.3	2005
								11:09:14	11:10:38	18.7	1995
								11:10:38	11:11:56	13.9	2000
								11:11:56	11:13:01	16.3	1995

Table E1 Field measured air-lift test data (Page 10 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0284		11-Jul-19		6165	2	4.95	TOC				
	Logger Start		13:17:00								2277
	Logger End		15:18:00								
	Start Air		13:37:30								
	Stop Air		14:01:49								
								13:41:05	13:41:40	17.7	2062
								13:41:40	13:42:22	16.1	2088
								13:42:22	13:43:03	17.4	2072
								13:43:03	13:43:29	16	2049
								13:43:29	13:44:28	17.2	2056
								13:44:28	13:45:13	17.2	2036
								13:45:13	13:46:00	15.8	2048
								13:46:00	13:46:50	16.8	2038
								13:46:50	13:47:42	16.9	2039
								13:47:42	13:48:24	14.5	2022
								13:48:24	13:49:17	18	2019
								13:49:17	13:50:01	14	2036
								13:50:01	13:51:00	16.4	2025
								13:51:00	13:51:51	14	2037
								13:51:51	13:52:36	13.5	2028
								13:52:36	13:53:35	15.8	2022
								13:53:35	13:54:28	14	2027
								13:54:28	13:55:24	14.9	2041
								13:55:24	13:56:22	15.9	2019
								13:56:22	13:57:26	15.8	2014
								13:57:26	13:58:23	14.9	1997
								13:58:23	13:59:22	14.7	2021

Table E1 Field measured air-lift test data (Page 11 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0310		17-Jul-19		6422	1.5	5.931	TOC				
	Logger Start		13:59:30								1909
	Logger End		15:29:00								
	Start Air		14:06:30								
	Stop Air		14:32:15								
								14:11:21	14:16:21	6.4	1818
								14:16:21	14:21:21	8.4	1790
								14:21:21	14:26:21	8.1	1782
								14:26:21	14:31:21	8.9	1794
BL-0330		13-Jul-19		6422	1.5	9.341	TOC				
	Logger Start		09:18:00								1780
	Logger End		11:31:00								
	Start Air		09:36:15								
	Stop Air		10:11:20								
								09:48:00	09:52:00	5.8	1499
								09:52:00	09:59:40	3.3	1521
								09:59:40	10:11:00	2	1514
BL-0341		14-Jul-19		6422	1.5	6.127	TOC				
	Logger Start		15:24:00								1975
	Logger End		17:08:00								
	Start Air		16:32:00								
	Stop Air		16:50:35								
								16:36:41	16:40:00	14.1	1910
								16:40:00	16:50:00	0.5	1883
BL-0343		15-Jul-19		6422	1.5	6.209	TOC				
	Logger Start		08:08:00								2047
	Logger End		10:40:45								
	Start Air		08:24:00								
	Stop Air		08:46:23								
								08:26:01	08:30:00	12	1663
								08:30:00	08:34:00	9.1	1663
								08:34:00	08:38:00	9.1	1649
								08:38:00	08:42:00	8.2	1660
								08:42:00	08:46:00	8	1694

Table E1 Field measured air-lift test data (Page 12 of 14).

BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0345		15-Jul-19		6165	2	7.763	TOC				
	Logger Start		09:04:00								2094
	Logger End		10:59:59								
	Start Air		09:24:15								
	Stop Air		09:52:30								
								09:26:35	09:31:00	4.3	1912
								09:31:00	09:36:00	5.8	1875
								09:36:00	09:41:00	3.2	1880
								09:41:00	09:46:00	4.2	1882
								09:46:00	09:51:00	4.8	1894
BL-0350		17-Jul-19		6422	1.5	4.399	TOC				
	Logger Start		11:26:00								2071
	Logger End		14:42:00								
	Start Air		12:52:00								
	Stop Air		13:16:15								
								12:55:29	13:00:09	16.7	1802
								13:00:09	13:05:29	11	1844
								13:05:29	13:10:29	9.5	1882
								13:10:29	13:15:29	9.4	1880
BL-0354		10-Jul-19		6165	2	5.815	TOC				
	Logger Start		11:21:23								2134
	Logger End		13:55:00								
	Start Air		11:49:57								
	Stop Air		12:15:00								
								11:57:10	12:15:00	11	1937
BL-0355		17-Jul-19		6165	2	5.598	TOC				
	Logger Start		10:21:00								2244
	Logger End		15:05:00								
	Start Air		10:34:00								
	Stop Air		10:56:45								
								10:36:10	10:41:10	4	1924
								10:41:10	10:46:10	2	1834
								10:46:10	10:51:10	2.5	1814
								10:51:10	10:56:10	2	1838

Table E1 Field measured air-lift test data (Page 13 of 14).

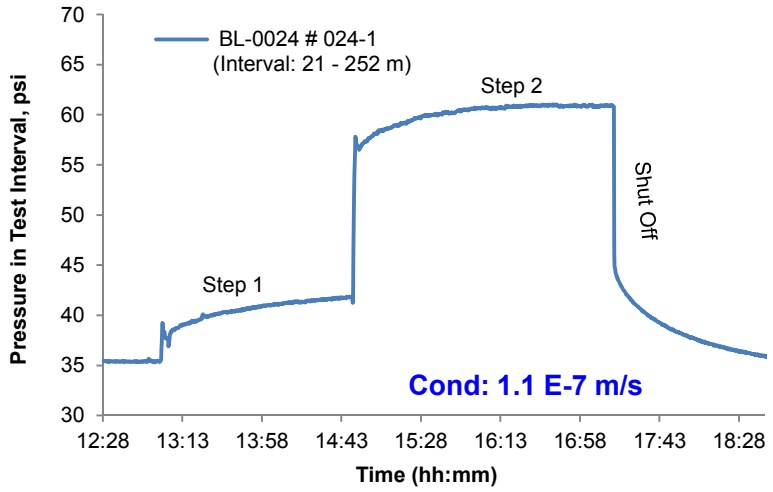
BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0367		14-Jul-19		6422	1.5	5.051	TOC				
	Logger Start		13:59:00								2008
	Logger End		14:55:45								
	Start Air		14:16:40								
	Stop Air		14:36:00								
								14:19:23	14:20:16	14.8	1920
								14:20:16	14:21:54	15	1932
								14:21:54	14:23:23	14.7	1925
								14:23:23	14:24:26	15.5	1881
								14:24:26	14:25:29	15.4	1889
								14:25:29	14:27:10	15	1872
								14:27:10	14:29:54	15	1948
								14:29:54	14:31:49	15.2	1911
								14:31:49	14:33:39	15.2	1938
								14:33:39	14:35:44	15.1	1906

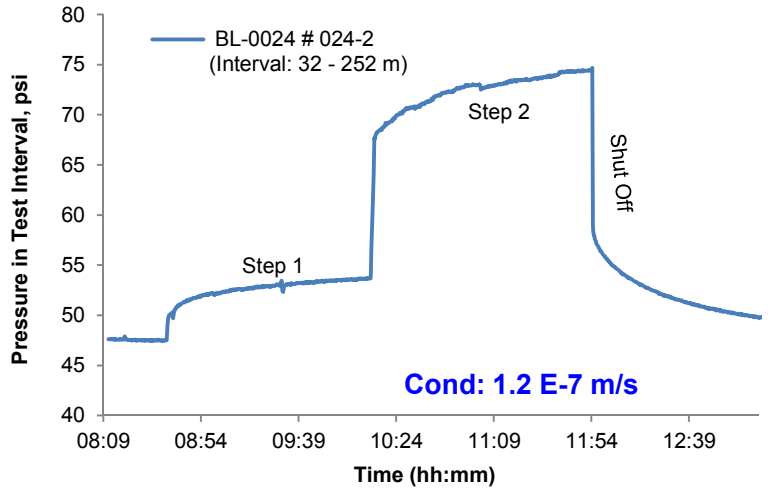
Table E1 Field measured air-lift test data (Page 14 of 14).

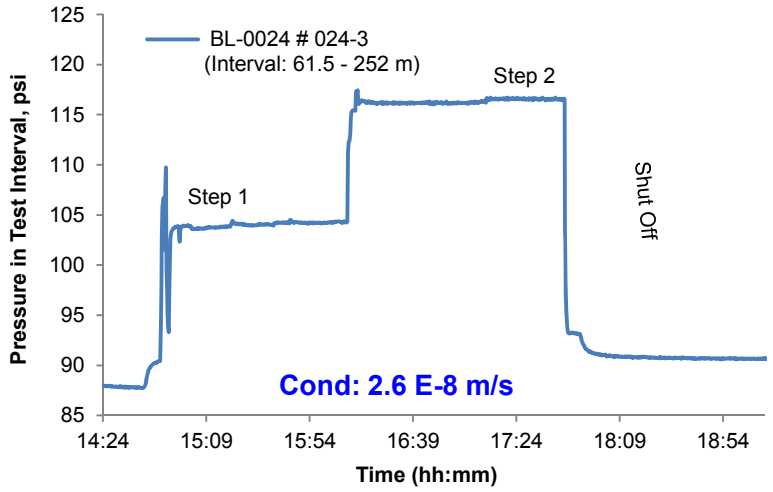
BoreHole I.D.	Activity	Date	Time (hh:mm:ss)	Logger Serial No.	Pipe Dia. (inch)	Static Water Dist. (m)	Ref. Point	Start time (hh:mm:ss)	End time (hh:mm:ss)	Amount Pumped (Litres)	Level from Levelogger (cm)
BL-0385		16-Jul-19		6422	1.5	--	TOC				
	Logger Start		16:01:20								2331
	Logger End		16:51:10								
	Start Air		16:22:00								
	Stop Air		16:39:55								
								16:25:45	16:26:15	20	1970
								16:26:15	16:26:44	19	1963
								16:26:44	16:27:20	20	1962
								16:27:20	16:27:42	19	1980
								16:27:42	16:27:56	19	1972
								16:27:56	16:28:23	20	1968
								16:28:23	16:28:54	19	1947
								16:28:54	16:29:28	20	1964
								16:29:28	16:30:02	19	1961
								16:30:02	16:30:40	20	1960
								16:30:40	16:31:07	19	1949
								16:31:07	16:31:40	20	1956
								16:31:40	16:32:15	19	1977
								16:32:15	16:32:48	20	1954
								16:32:48	16:33:23	19	1947
								16:33:23	16:33:54	20	1962
								16:33:54	16:34:29	19	1933
								16:34:29	16:35:00	20	1953
								16:35:00	16:35:32	19	1951
								16:35:32	16:35:59	20	1943
								16:35:59	16:36:39	19	1943
								16:36:39	16:37:14	20	1958
								16:37:14	16:37:45	19	1969
								16:37:45	16:38:20	20	1960
								16:38:20	16:38:49	19	1951

APPENDIX F

Packer Test Data







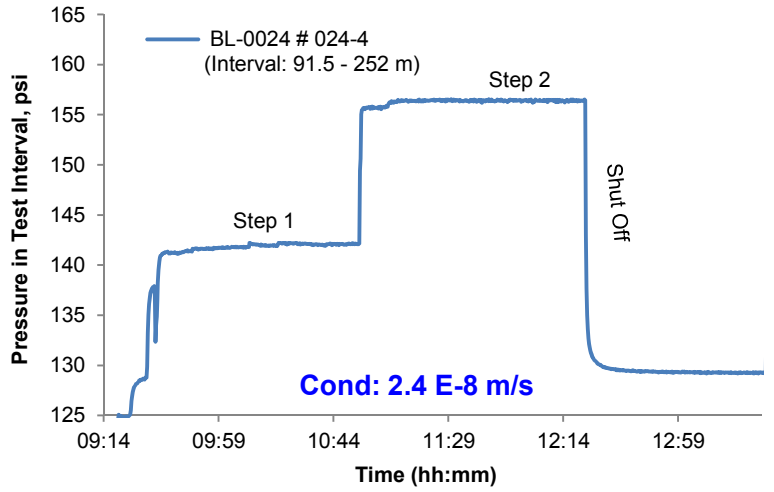
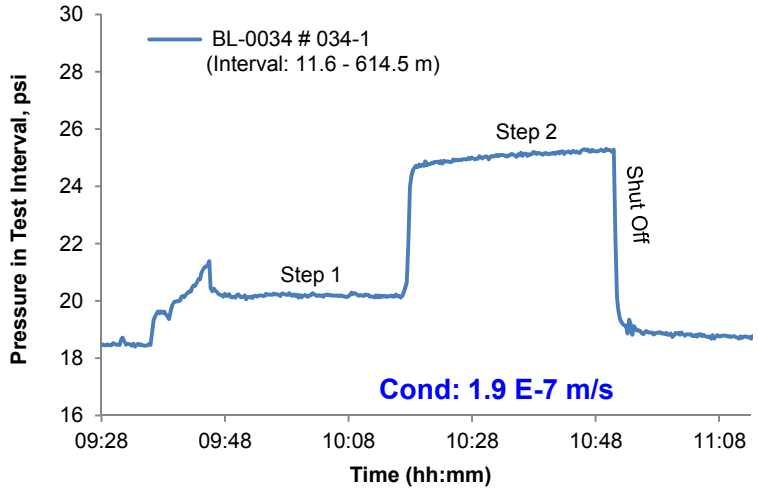


Figure F1 Packer tests in BL-0024 (borehole depth - 252 m), Tests # 024-1, 024-2, 24-3 and 024-4.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC



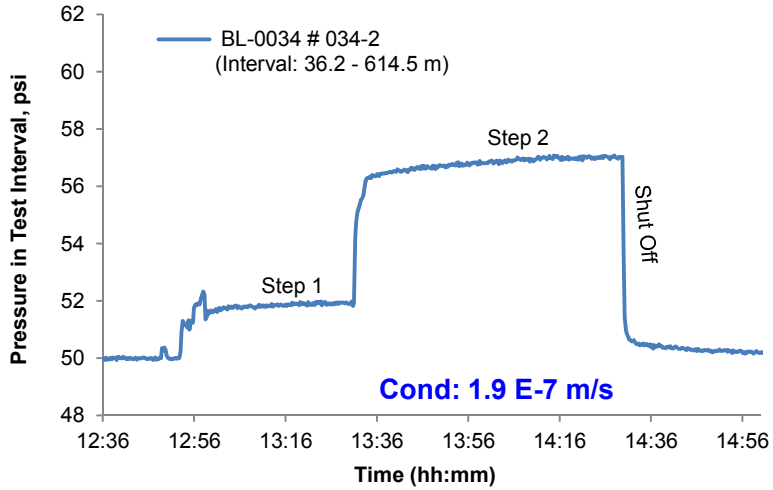
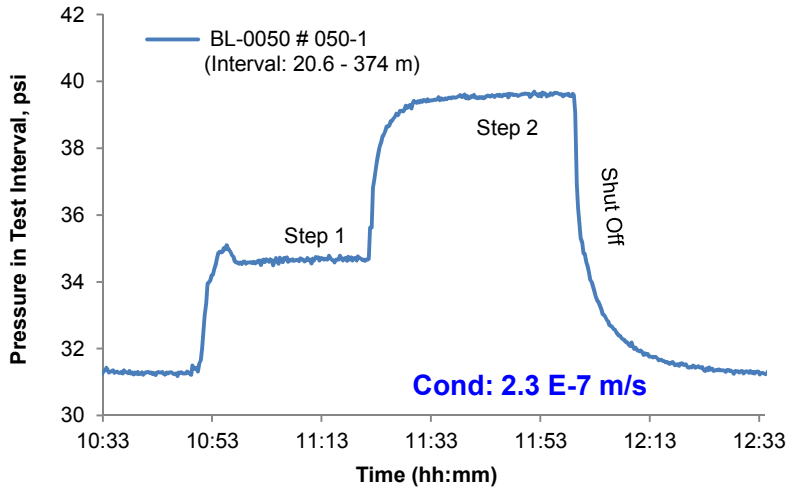
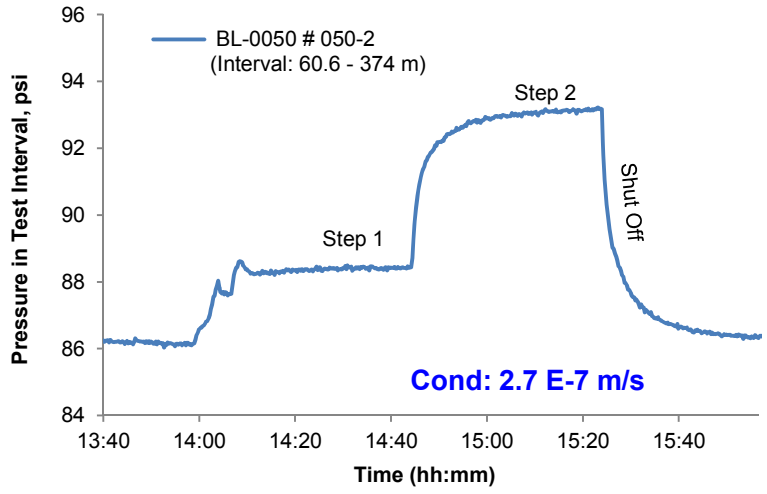


Figure F2 Packer tests in BL-0034 (borehole depth - 614.5 m), Tests # 034-1 and 034-2.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC





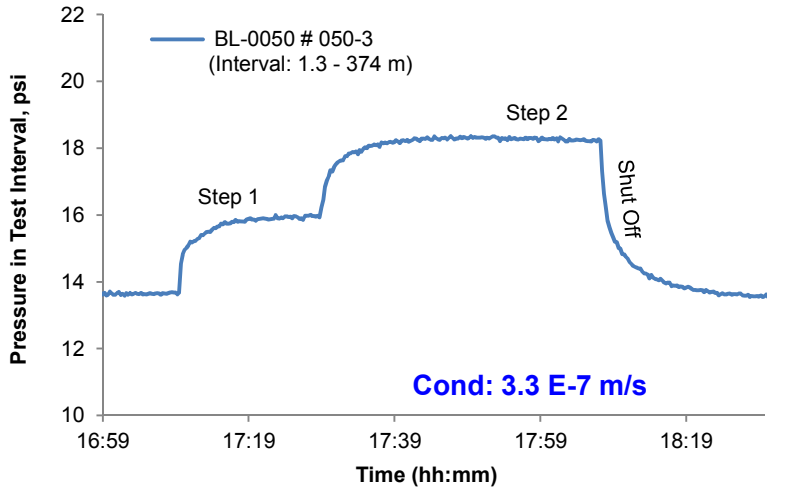
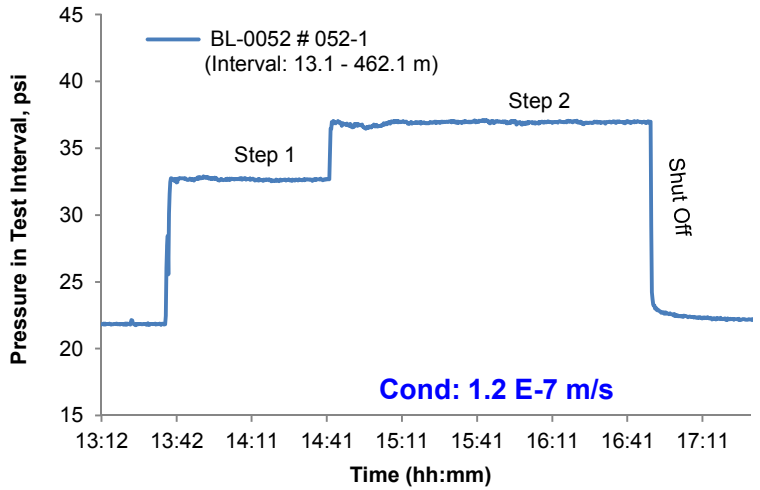


Figure F3 Packer tests in BL-0050 (borehole depth - 374 m), Tests # 050-1, 050-2 and 050-3.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC



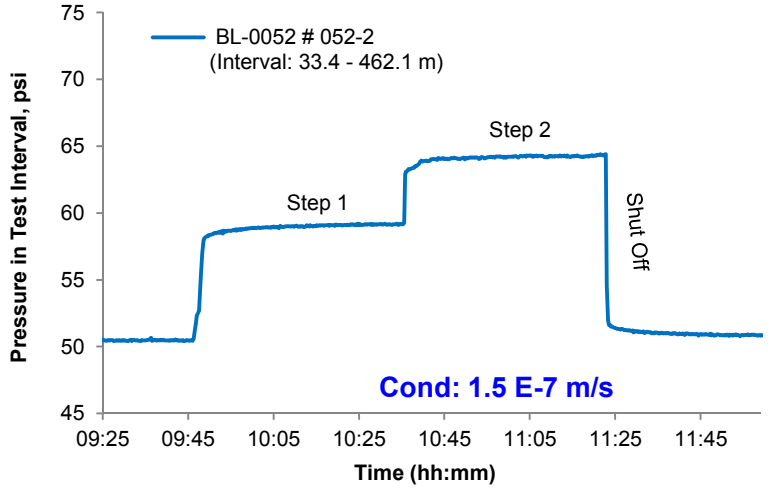
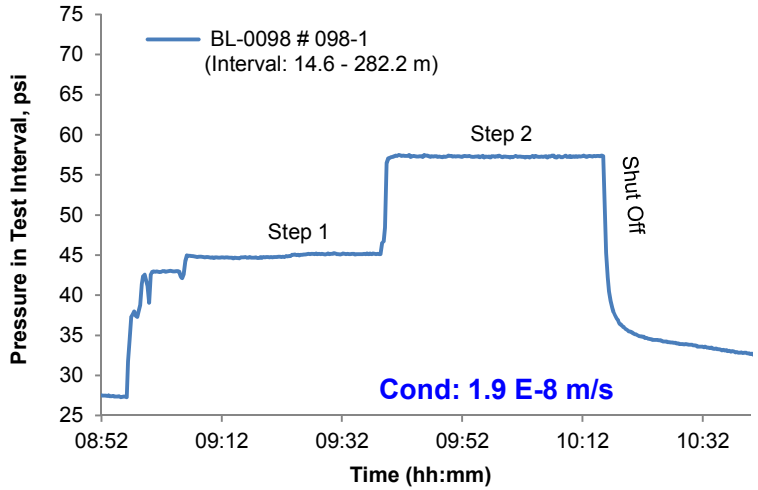


Figure F4 Packer tests in BL-0052 (borehole depth - 462.1 m), Tests # 050-1 and 050-2.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC



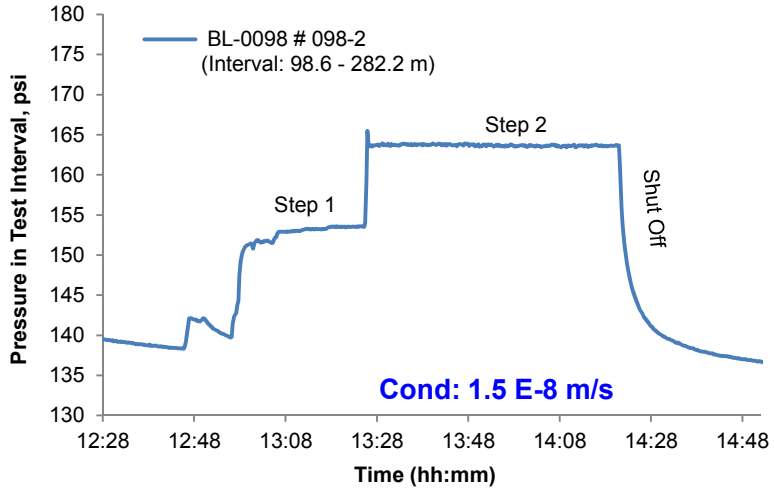


Figure F5 Packer tests in BL-0098 (borehole depth - 282.2 m), Tests # 098-1 and 098-2.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC

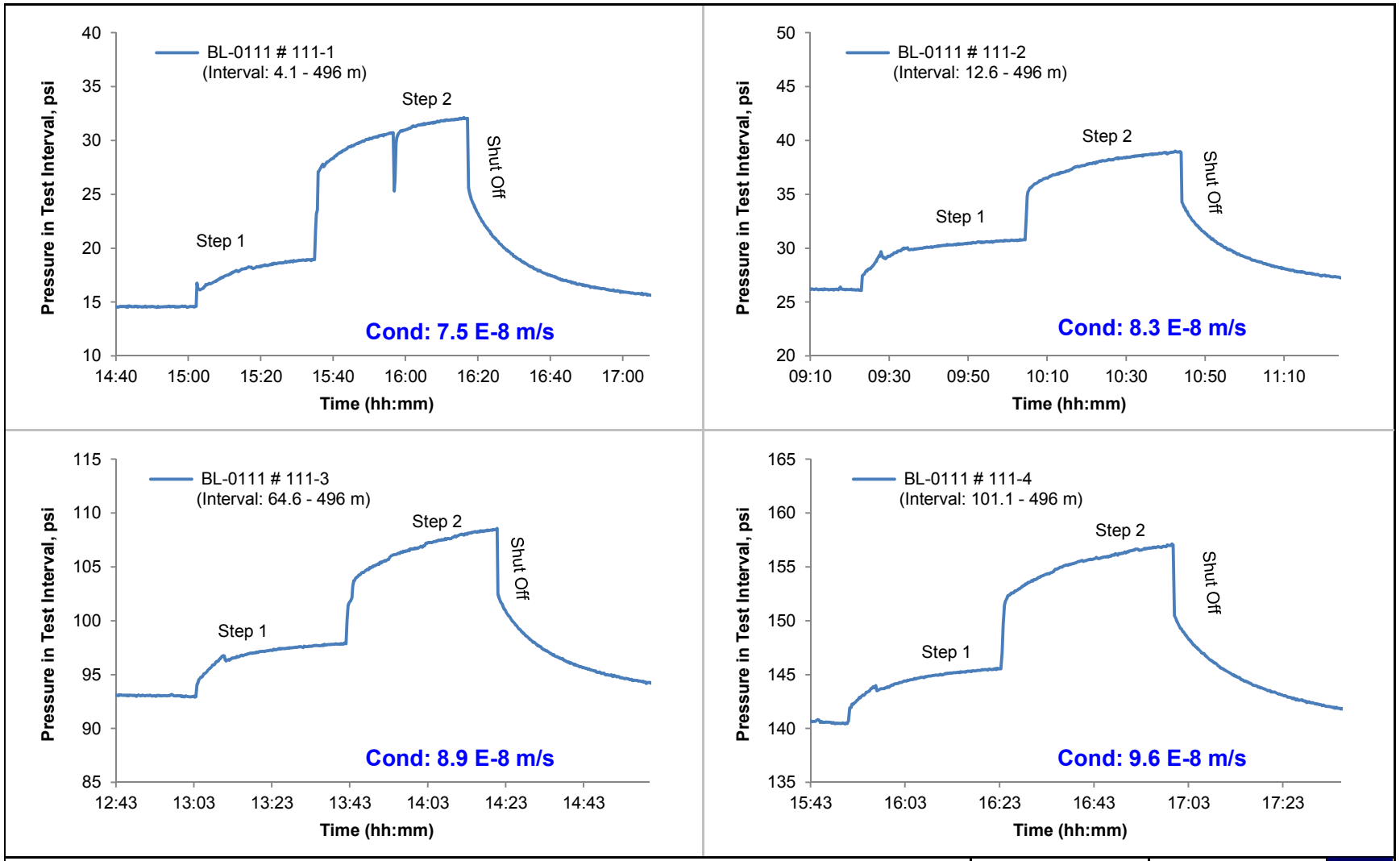
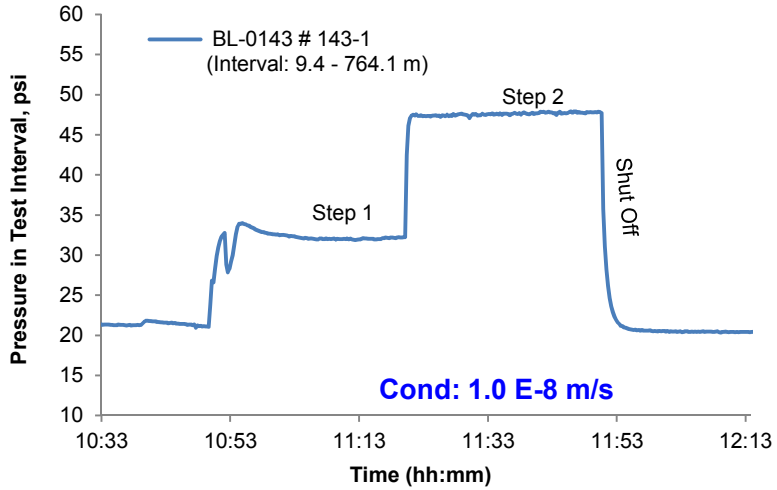


Figure F6 Packer tests in BL-111 (borehole depth - 496 m), Tests # 111-1, 111-2, 111-3 and 111-4.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC



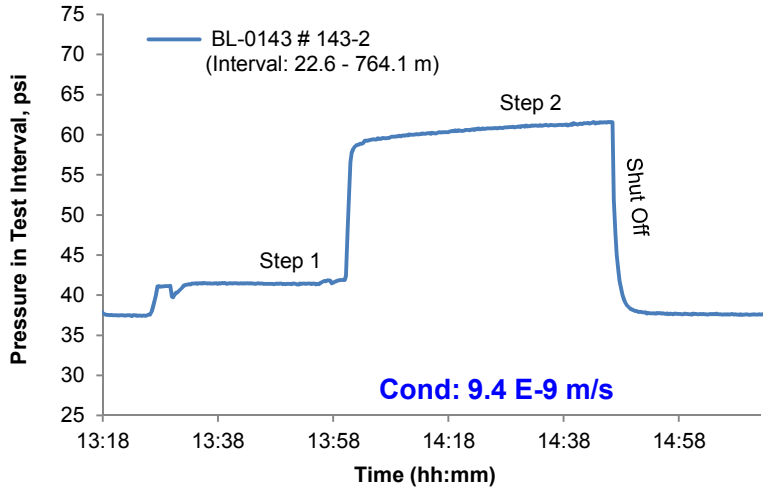
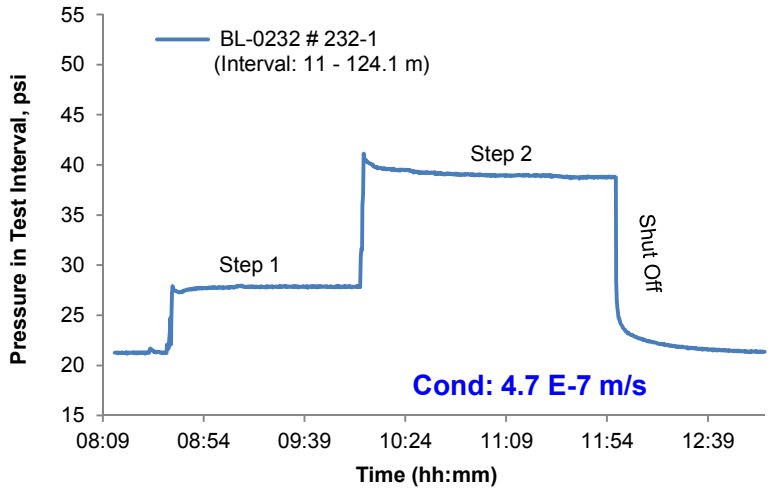
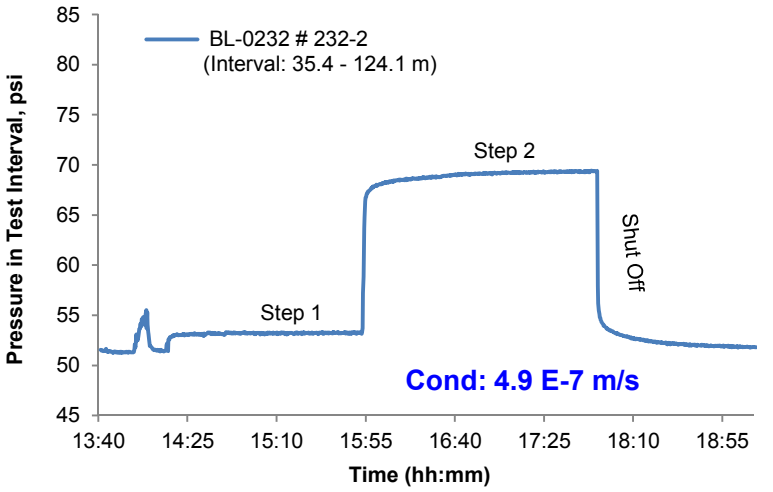


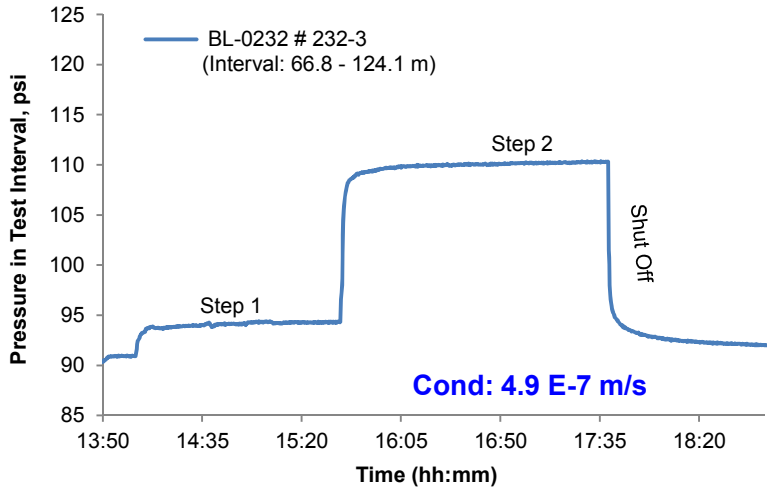
Figure F7 Packer tests in BL-0143 (borehole depth - 764.1 m), Tests # 143-1 and 143-2.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC







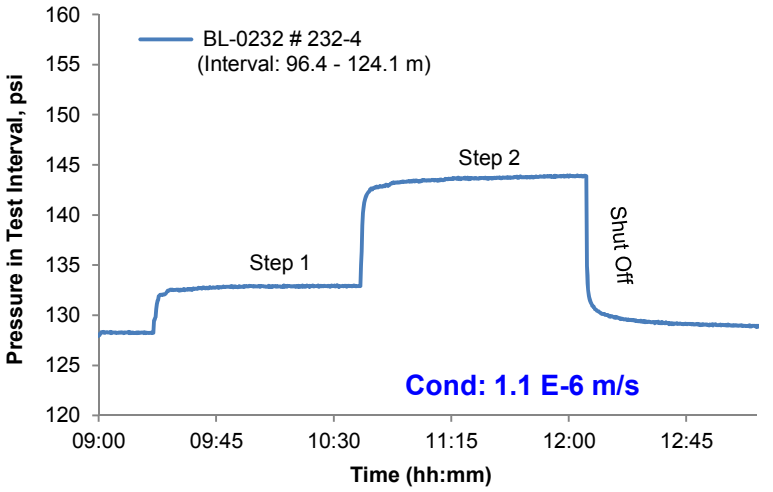
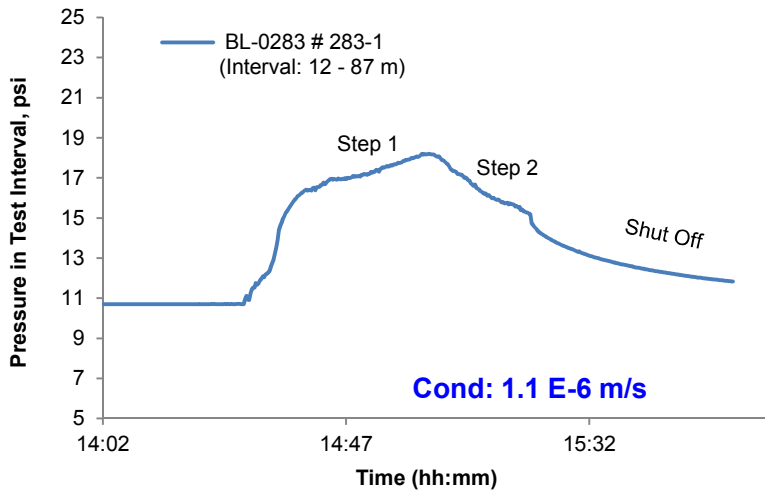
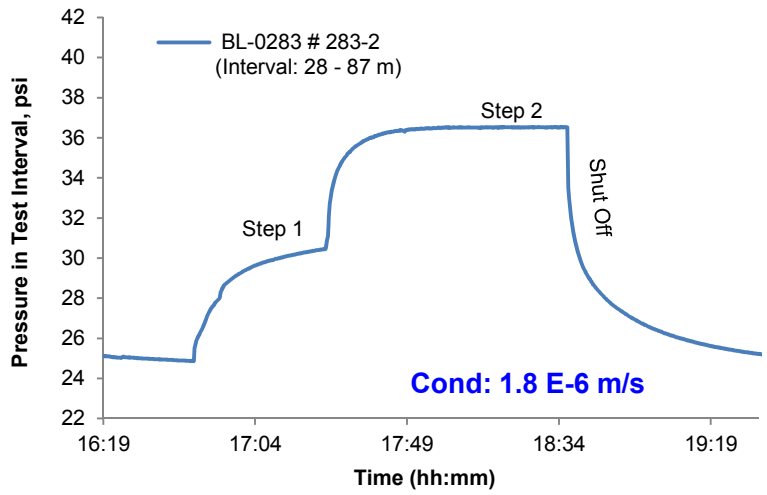


Figure F8 Packer tests in BL-232 (borehole depth - 124.1 m), Tests # 232-1, 232-2, 232-3 and 232-4.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC





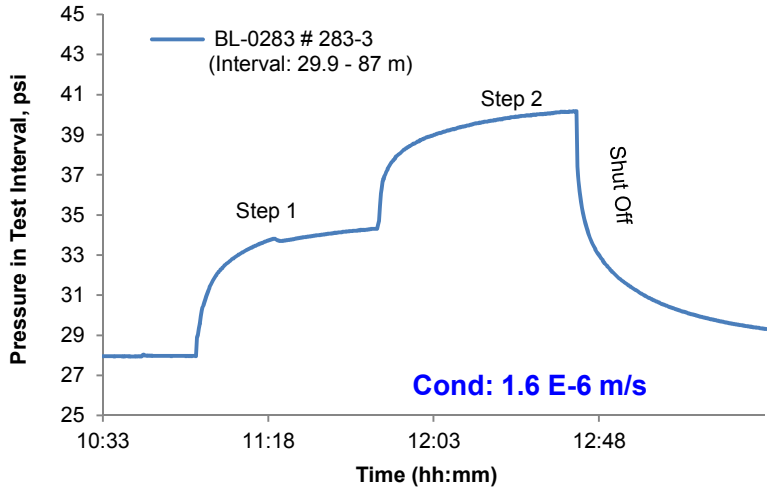
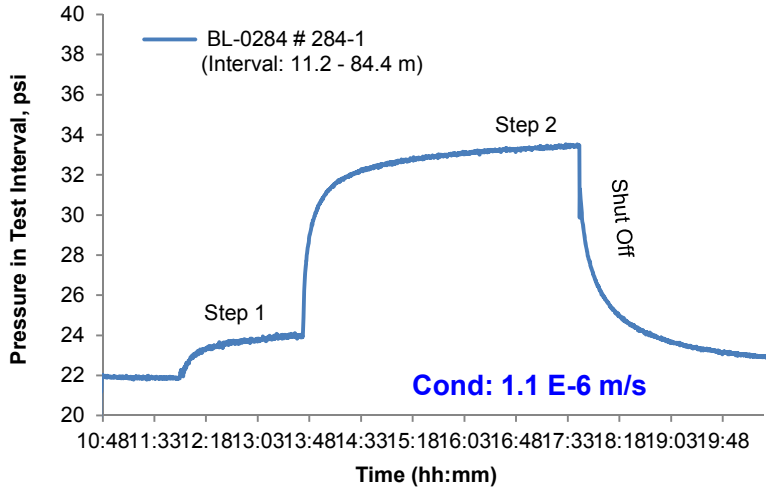
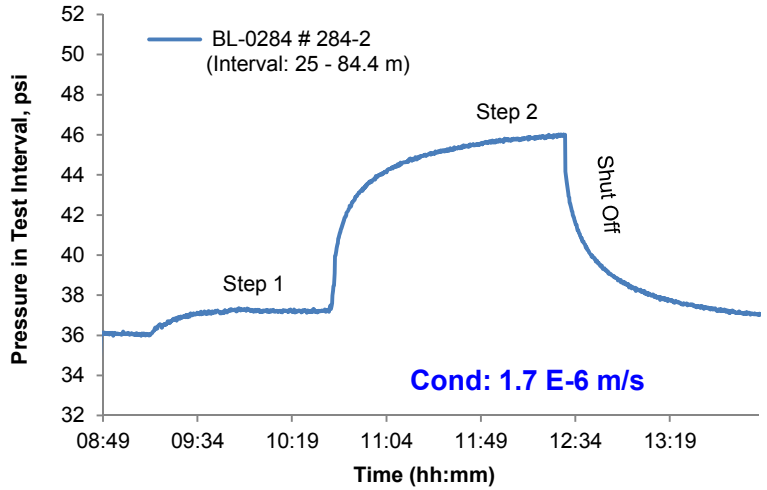


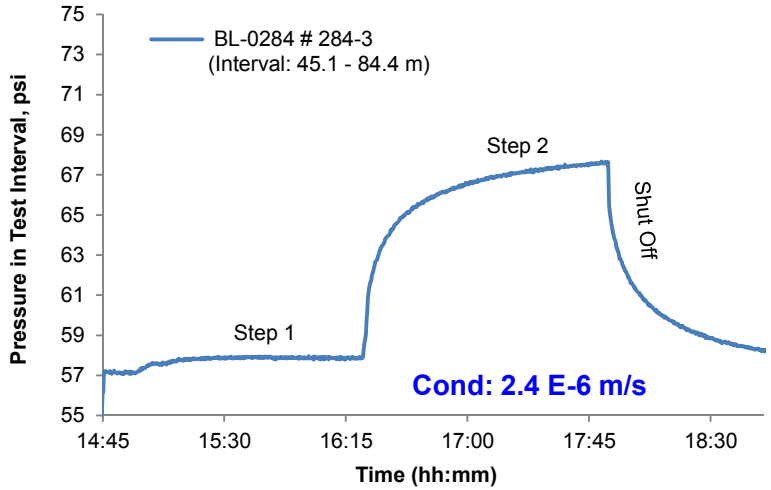
Figure F9 Packer tests in BL-0283 (borehole depth - 87 m), Tests # 283-1, 283-2 and 283-3.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC







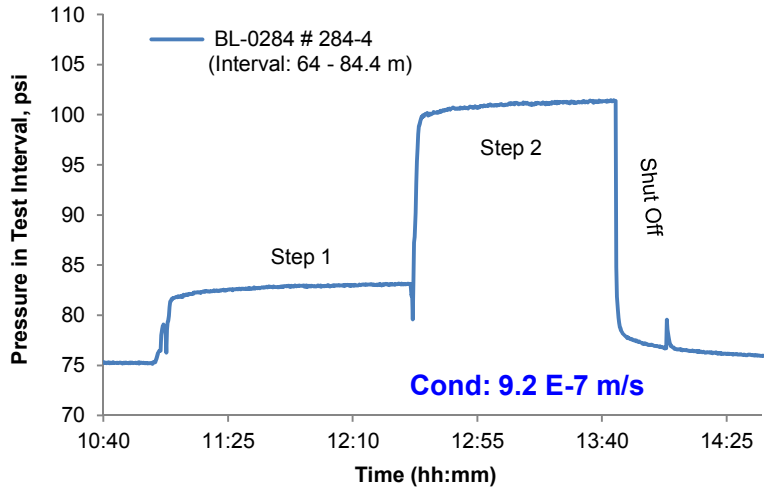
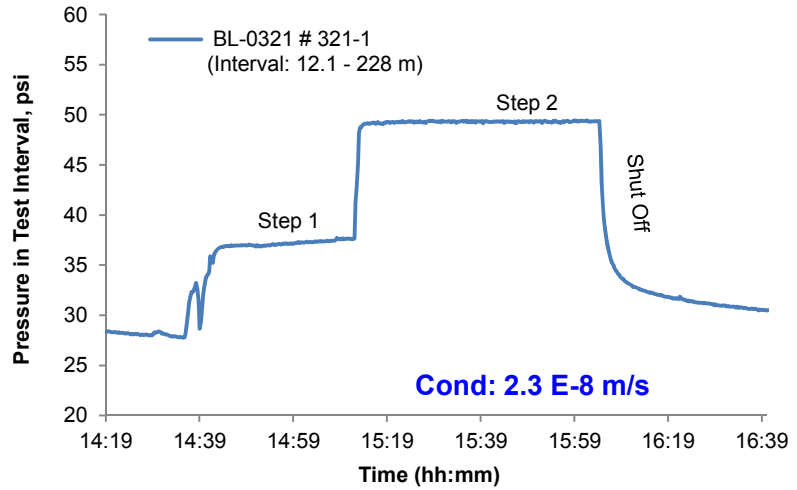
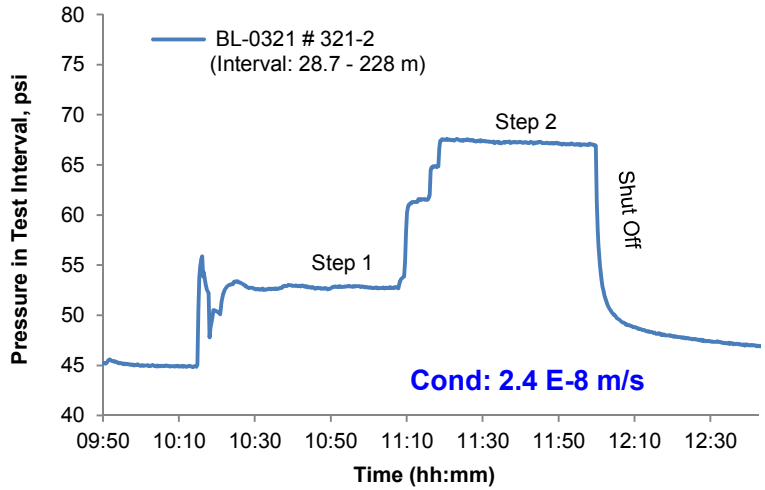


Figure F10 Packer tests in BL-0284 (borehole depth - 84.4 m), Tests # 284-1, 284-2, 284-3 and 284-4.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC





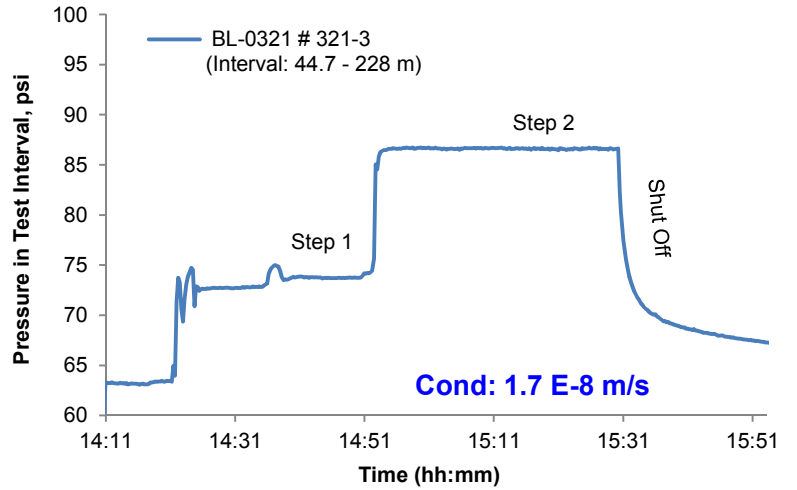
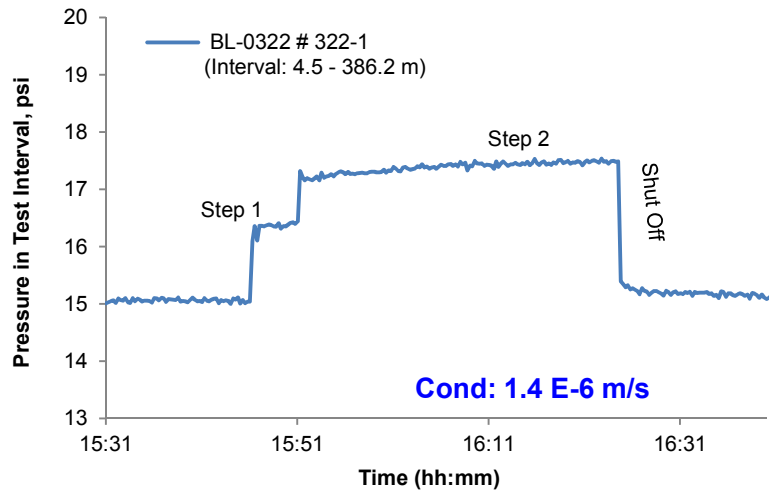
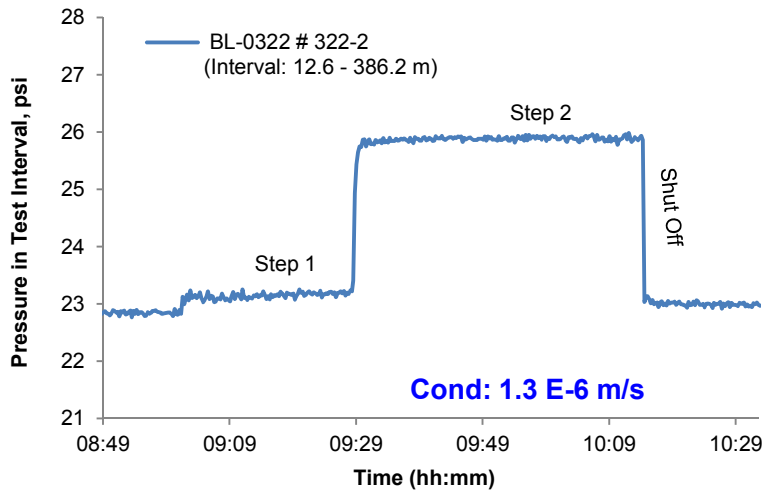


Figure F11 Packer tests in BL-0321 (borehole depth - 228 m), Tests # 321-1, 321-2 and 321-3.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC





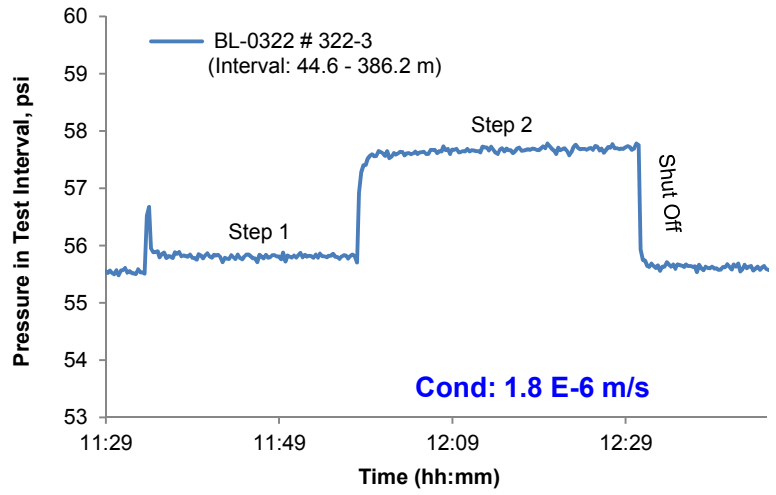
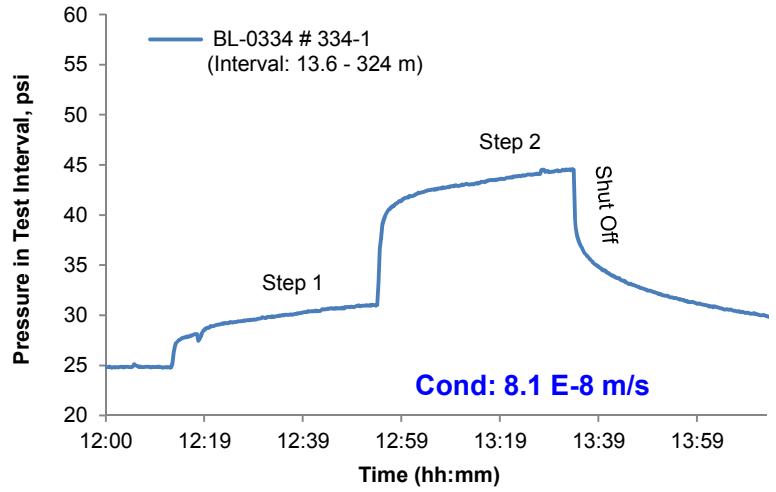
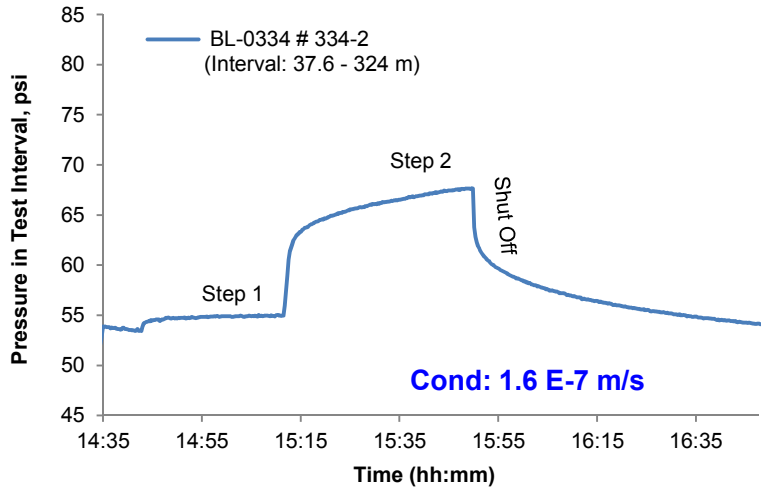


Figure F12 Packer tests in BL-0322 (borehole depth - 386.2 m), Tests # 322-1, 322-2, and 322-3.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC





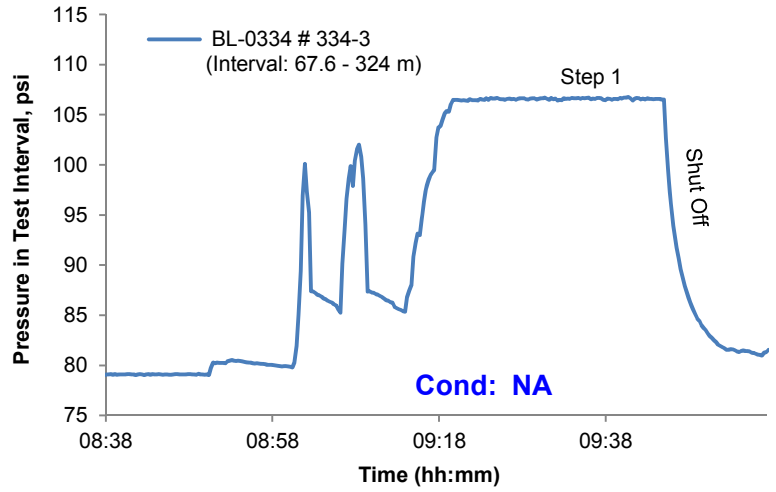
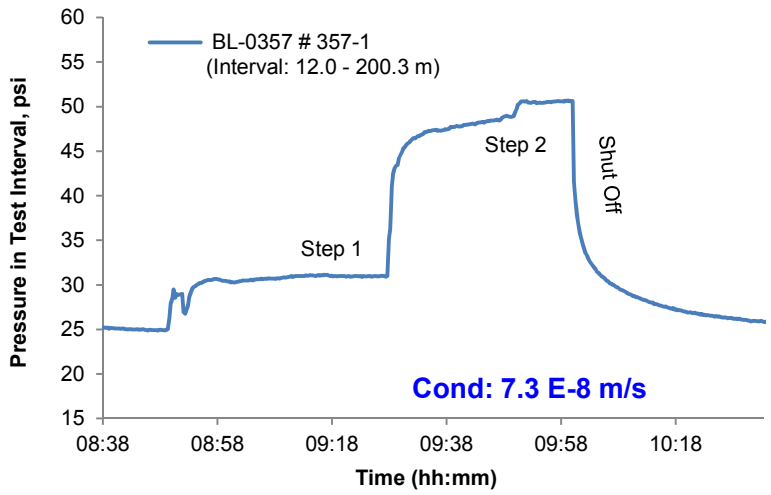
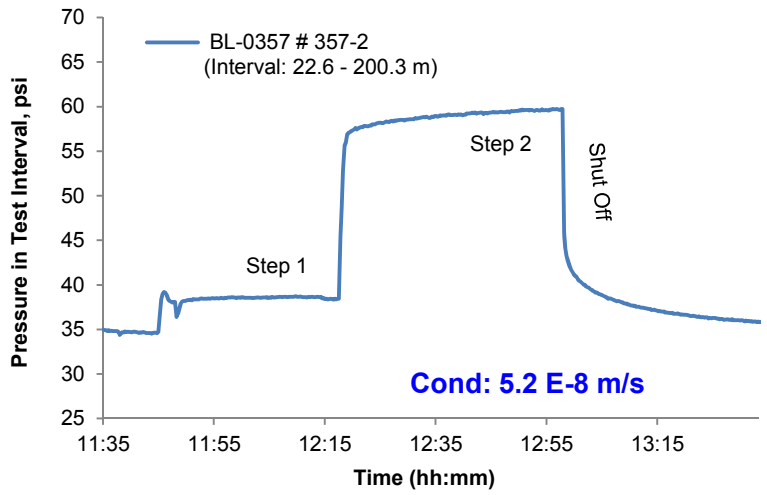


Figure F13 Packer tests in BL-0334 (borehole depth - 324 m), Tests # 334-1, 334-2 and 334-3.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC





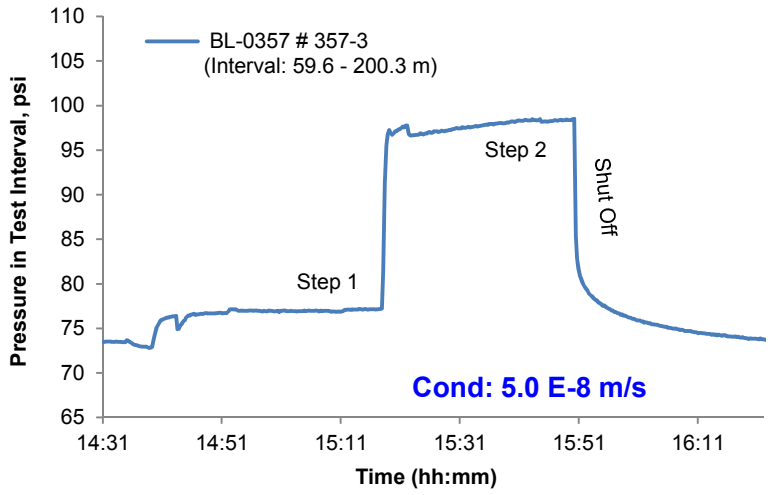


Figure F14 Packer tests in BL-0357 (borehole depth - 200.3 m), Tests # 357-1, 357-2 and 357-3.

Project No.	Document Reference
3134	FFC-NL-3134-002
Location	Date
Springpole, ON	February 2021

FFC

APPENDIX G

Field-Measured Water Quality Readings

APPENDIX G-1

Sampling

3134 - Surface Water Sampling - Field Parameters July (Page 1 of 6).

Parameter	Units	Sample ID	SP-SW-13	SP-SW-14	SP-SW-05	SP-SW-11	SP-SW-12
		Date Sampled	4-Jul-20	4-Jul-20	4-Jul-20	4-Jul-20	4-Jul-20
		Time Sampled	10:28	11:22	11:52	12:20	13:05
		Media	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Physical Tests							
pH	pH		6.29	6.51	6.38	6.55	6.57
Conductivity	uS/cm		57.78	59.77	59.97	61.47	59.53
ORP	mV		N/A	N/A	N/A	N/A	N/A
Temperature	°C		27.1	27.5	28.7	28.2	28.5
Dissolved Oxygen	mg/L		7.75	7.79	7.67	7.79	7.61
Turbidity	NTU		0.18	0.17	0.12	0.13	0.14
Field Notes							
Lake			Seagrave	Seagrave	Seagrave	Seagrave	Seagrave
Comments			30oC, Sunny, light breeze. Slight green lake water, some algae, rain and thunder last night	Shallow muddy bottom, minor amount of algae, sheltered bay with some lake vegetation, dead mayflies, small inflow nearby	Deep water, algae similar to SW-13, calm surface, no breeze, nearby lake shore new growth	See SW-05, some poplar seeds	Moderate breeze, deep water, very minor algae, poplar seeds

3134 - Surface Water Sampling - Field Parameters July (Page 2 of 6).

Parameter	Units	Sample ID	SP-SW-10	SP-SW-08	SP-SW-22	SP-SW-07	SP-DUP-01
		Date Sampled	4-Jul-20	4-Jul-20	4-Jul-20	4-Jul-20	4-Jul-20
		Time Sampled	13:30	15:20	17:06	17:49	17:49
		Media	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Physical Tests							
pH	pH		6.48	6.7	6.54	6.72	
Conductivity	uS/cm		59.34	63.09	63.25	62.47	
ORP	mV		N/A	N/A	N/A	N/A	
Temperature	°C		28.5	28.9	28.1	29.6	
Dissolved Oxygen	mg/L		7.54	7.78	7.67	8.11	
Turbidity	NTU		0.19	0.33	0.24	0.18	
Field Notes							
Lake			Seagrave	Cromarty	Springpole	Springpole	Springpole
Comments			Moderate breeze, deep water, minor algae, lots of poplar seeds, partially cloudy	Near large outflow	No breeze, major outflow from Springpole upstream, overcast	Moderate breeze, minor algae, deep water	See SW-07

3134 - Surface Water Sampling - Field Parameters July (Page 3 of 6).

Parameter	Units	Sample ID	SP-SW-16	SP-SW-15	SP-SW-02	SP-SW-25	SP-SW-06
		Date Sampled	4-Jul-20	5-Jul-20	5-Jul-20	5-Jul-20	5-Jul-20
		Time Sampled	18:15	8:30	8:49	9:23	9:55
		Media	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Physical Tests							
pH	pH		6.74	6.42	6.6	6.72	6.6
Conductivity	uS/cm		62.92	69.45	68.15	69.77	70.03
ORP	mV		N/A	N/A	N/A	N/A	N/A
Temperature	°C		26.9	25.3	25.0	24.9	26.2
Dissolved Oxygen	mg/L		7.92	8.23	8.44	8.42	8.18
Turbidity	NTU		0.26	0.31	0.18	0.25	0.22
Field Notes							
Lake			Springpole	Springpole	Springpole	Springpole	Springpole
Comments			Sheltered bay, weak breeze, minor algae, storm approaching, overcast	Partly cloudy, slight breeze, minor algae, dead mayflies	Slightly more algae than SW-15, slight breeze	Slight breeze, sunny, significant algae, some dead mayflies, dead minnows	Sunny, slight breeze, minor algae

3134 - Surface Water Sampling - Field Parameters July (Page 4 of 6).

Parameter	Units	Sample ID	SP-SW-01	SP-SW-04	SP-SW-18	SP-SW-24	SP-SW-20
		Date Sampled	5-Jul-20	5-Jul-20	5-Jul-20	5-Jul-20	5-Jul-20
		Time Sampled	10:23	11:50	12:50	13:28	14:35
		Media	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Physical Tests							
pH	pH		6.7	6.77	6.86	6.71	6.97
Conductivity	uS/cm		70.54	64.88	65.56	65.08	65.37
ORP	mV		N/A	N/A	N/A	N/A	N/A
Temperature	°C		27.0	25.8	27.0	27.3	27.9
Dissolved Oxygen	mg/L		7.86	8.2	7.82	7.81	7.96
Turbidity	NTU		0.41	0.49	0.11	0.27	0.12
Field Notes							
Lake			Springpole	Birch	Birch	Birch	Birch
Comments			Sunny, no breeze, minor algae, clear skies	Moderate breeze, deep water, sunny, little to no clouds, minor algae, dead mayflies and minnows	Sunny, light to moderate breeze, no cloud cover, minor algae	Sunny, slight breeze, no cloud cover, minor algae	Little to no breeze, partly cloudy, minor algae, sheltered bay

3134 - Surface Water Sampling - Field Parameters July (Page 5 of 6).

Parameter	Units	Sample ID	SP-SW-19	SP-DUP-02	SP-SW-21	SP-SW-23	SP-SW-03
		Date Sampled	5-Jul-20	5-Jul-20	5-Jul-20	5-Jul-20	5-Jul-20
		Time Sampled	15:25	15:25	16:00	16:36	17:05
		Media	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Physical Tests							
pH	pH		7.3		7.35	7.09	6.88
Conductivity	uS/cm		68.44		115.9	65.87	65.83
ORP	mV		N/A		N/A	N/A	N/A
Temperature	°C		27.7		28.7	26.9	27.1
Dissolved Oxygen	mg/L		7.66		7.9	8.19	8.1
Turbidity	NTU		0.3		0.37	0.48	0.43
Field Notes							
Lake			Birch	Birch	Dole	Birch	Birch
Comments			Moderate breeze, partly cloudy, minor algae	See SP-SW-19	Moderate breeze, mosderate algae, partly cloudy, shallow water with muddy bottom	Moderate breeze, minor algae, partly cloudy	Moderate breeze, minor-med algae, partly cloudy, sheltered bay, two camps within 200m area

3134 - Surface Water Sampling - Field Parameters July (Page 6 of 6).

Parameter	Units	Sample ID	SP-SW-09	SP-SW-26	SP-DUP-03		
		Date Sampled	6-Jul-20	6-Jul-20	6-Jul-20		
		Time Sampled	9:07	11:30	11:30		
		Media	Surface Water	Surface Water	Surface Water		
Physical Tests							
pH	pH		6.77	7.01			
Conductivity	uS/cm		80.94	119.6			
ORP	mV		N/A	N/A			
Temperature	°C		26.3	25.5			
Dissolved Oxygen	mg/L		7.48	7.63			
Turbidity	NTU		0.72	0.3			
Field Notes							
Lake			Jamie	Unnamed	Unnamed		
Comments			Partly cloudy, light breeze, very murky water, vegetation on bottom, lots of loons around, muddy bottom with some leaches	Swamp/Bog shore, very very very soft bottom (bottomless), heavy mosquito/black fly presence, bubbles coming up tp surface with shore agitation, minnows, leaches present	See SP-SW-03		

3134 - Surface Water Sampling - Field Parameters September (Page 1 of 6).

Parameter	Units	Sample ID	SP-SW-13	SP-SW-14	SP-SW-11	SP-SW-05	SP-SW-12
		Date Sampled	11-Sep-20	11-Sep-20	11-Sep-20	11-Sep-20	11-Sep-20
		Time Sampled	11:56	12:29	13:03	13:23	14:09
		Media	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Physical Tests							
pH	pH		7.51	7.58	7.55	7.55	7.66
Conductivity	uS/cm		49.5	50.1	51.4	51.3	50.8
ORP	mV		168	166.5	197.2	181.8	199.8
Temperature	°C		13.2	14.2	13.6	13.6	13.8
Dissolved Oxygen	mg/L		10.12	10.32	10.09	10.12	10.22
Turbidity	NTU			0	0	0	0
Field Notes							
Lake			Seagrave	Seagrave	Seagrave	Seagrave	Seagrave
Comments			Clear water, slight breeze, waves about 15cm, sunny, little to no recent rain				

3134 - Surface Water Sampling - Field Parameters September (Page 2 of 6).

Parameter	Units	Sample ID	SP-SW-DUP-01	SP-SW-10	SP-SW-08	SP-SW-15	SP-SW-02
		Date Sampled	11-Sep-20	11-Sep-20	11-Sep-20	11-Sep-20	11-Sep-20
		Time Sampled	14:09				
		Media	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Physical Tests							
pH	pH			7.66	7.73	8.01	7.56
Conductivity	uS/cm			51.1	55.4	61.4	61.5
ORP	mV			171.3	191	181.1	193.8
Temperature	°C			13.7	13.5	15.6	13.9
Dissolved Oxygen	mg/L			10.2	10.57	10.56	9.91
Turbidity	NTU			0	0	0	0
Field Notes							
Lake			Seagrave	Seagrave	Cromarty	Springpole	Springpole
Comments			See SP-SW-12				

3134 - Surface Water Sampling - Field Parameters September (Page 3 of 6).

Parameter	Units	Sample ID	SP-SW-22	SP-SW-28	SP-SW-07	SP-SW-16	SP-SW-25
		Date Sampled	12-Sep-20	12-Sep-20	12-Sep-20	12-Sep-20	12-Sep-20
		Time Sampled	11:21	12:26	13:08	13:38	14:45
		Media	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Physical Tests							
pH	pH		8.03	7.59	7.58	7.75	7.56
Conductivity	uS/cm		55.9	55.5	55.7	56.4	61.8
ORP	mV		102.6	161.5	165.3	171.5	181.5
Temperature	°C		15.7	14.2	14.1	15.0	13.9
Dissolved Oxygen	mg/L		10.15	10.13	9.85	10.34	9.83
Turbidity	NTU		2.8	0	0	0	0
Field Notes							
Lake			Springpole	Springpole	Springpole	Springpole	Springpole
Comments			Sample downstream from Springpole outflow	New location upsteam from Springpole outflow		low waves, sheltered area	

3134 - Surface Water Sampling - Field Parameters September (Page 4 of 6).

Parameter	Units	Sample ID	SP-SW-06	SP-SW-01	SP-SW-04	SP-SW-18	SP-SW-24
		Date Sampled	12-Sep-20	12-Sep-20	13-Sep-20	13-Sep-20	13-Sep-20
		Time Sampled	15:05	15:30	9:58	10:25	10:57
		Media	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Physical Tests							
pH	pH		7.64	7.69	7.8	7.66	7.58
Conductivity	uS/cm		61.7	61.7	57.4	57.3	57.5
ORP	mV		201.4	194.7	138.5	162.8	192.2
Temperature	°C		14.0	14.3	13.9	13.8	13.8
Dissolved Oxygen	mg/L		10.07	10.18	10.21	10.34	10.17
Turbidity	NTU		0	0	0	0	0
Field Notes							
Lake			Springpole	Springpole	Birch	Birch	Birch
Comments					Low wind, water clear at the top, very few suspended solids visible		

3134 - Surface Water Sampling - Field Parameters September (Page 5 of 6).

Parameter	Units	Sample ID	SP-SW-20	SP-SW-27	SP-SW-21	SP-SW-19	SP-SW-DUP-02
		Date Sampled	13-Sep-20	13-Sep-20	13-Sep-20	13-Sep-20	13-Sep-20
		Time Sampled	11:52	12:21	13:24	13:37	13:37
		Media	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Physical Tests							
pH	pH		7.54	7.64	7.99	7.68	
Conductivity	uS/cm		57.6	57.7	106	57.6	
ORP	mV		203.7	183.8	202.9	211.1	
Temperature	°C		13.7	14.3	13.7	14.0	
Dissolved Oxygen	mg/L		10.14	10	10.3	10.12	
Turbidity	NTU		0	10.26	0.05	0	
Field Notes							
Lake			Birch	Birch	Dole	Birch	Birch
Comments				New location on Northern shore of Birch Lake	Algae noted in lake		See SP-SW-19

3134 - Surface Water Sampling - Field Parameters September (Page 6 of 6).

Parameter	Units	Sample ID	SP-SW-23	SP-SW-03	SP-SW-09	Field Blank	SP-SW-26
		Date Sampled	13-Sep-20	13-Sep-20	13-Sep-20	13-Sep-20	13-Sep-20
		Time Sampled	14:05	14:56	16:27	16:27	17:43
		Media	Surface Water	Surface Water	Surface Water		
Physical Tests							
pH	pH		7.48	7.7	8.22		7.75
Conductivity	uS/cm		57.6	57.5	73.9		99.6
ORP	mV		215.4	194.5	203.7		170.1
Temperature	°C		14.1	13.9	13.6		14.9
Dissolved Oxygen	mg/L		9.9	10.26	11.45		12.22
Turbidity	NTU		0	0	0		0.9
Field Notes							
Lake			Birch	Birch	Jamie	Jamie	Unnamed Beaver
Comments					Filters clogged very easily		

3134 - Surface Water Sampling - Field Parameters November (Page 1 of 1).

Parameter	Units	Sample ID	SP-SW-15	SP-SW-02	SP-SW-25	SP-SW-06	SP-SW-01
		Date Sampled	8-Nov-20	8-Nov-20	8-Nov-20	8-Nov-20	8-Nov-20
		Time Sampled	9:38	10:04	10:40	11:32	12:05
		Media	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Physical Tests							
pH	pH		7.93	7.94	7.91	7.77	7.84
Conductivity	uS/cm		62.7	63.3	63.8	63.4	64.3
ORP	mV		226.6	215.6	222.3	234	213.2
Temperature	°C		2.1	2.0	2.6	2.7	2.9
Dissolved Oxygen	mg/L		13.31	13.18	12.76	12.95	12.88
Turbidity	NTU		0	0	0	0	0
Field Notes							
Lake			Springpole	Springpole	Springpole	Springpole	Springpole
Comments							

APPENDIX G-2

Aquifer Test

3134 - Water Sampling - Field Parameter using YSI

Date:	October 18, 2020	**Measured by:**	VS	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	12:10	12:17	18:20	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	7.2	7.3	4.2	°C
Barometric Pressure	726.1	726	725.4	mmHg
Dissolved Oxygen %	87.9	88.1	39	DO%
Dissolved Oxygen	10.6	10.62	4.88	DO
Specific Conductance	63.5	63.4	561	SPC uS/cm
pH	7.14	7.14	7.03	--
Oxidation-Reduction potential	266.9	273.7	31.4	ORP
Turbidity	-0.38	-0.96	0.23	FNU

Date:	October 19, 2020	**Measured by:**	VS	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	08:15	08:30	09:45	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	6.2	6.6	4.5	°C
Barometric Pressure	729.5	729.6	728.1	mmHg
Dissolved Oxygen %	83.4	84	37.7	DO%
Dissolved Oxygen	10.39	10.27	4.78	DO
Specific Conductance	69.1	64.6	690	SPC uS/cm
pH	6.3	6.73	6.82	--
Oxidation-Reduction potential	221.4	199.6	80.1	ORP
Turbidity	-0.05	-0.78	-0.09	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	October 20, 2020	**Measured by:**	VS		
		Location:	**Lake 1**	**Lake 2**	**SPW20-001**
		Time:	09:30	09:40	10:30
	Parameter		***Readings***	***Readings***	***Readings***	***Unit***
	Temperature		6	6.3	5.4	°C
	Barometric Pressure		733.3	733.3	731.4	mmHg
	Dissolved Oxygen %		83.3	84.2	42.2	DO%
	Dissolved Oxygen		10.36	10.39	5.17	DO
	Specific Conductance		70.2	64.5	795	SPC uS/cm
	pH		6.73	6.97	6.8	--
	Oxidation-Reduction potential		237.1	210.3	85.4	ORP
	Turbidity		-1.03	-0.97	3.01	FNU

Date:	October 21, 2020	**Measured by:**	VS		
		Location:	**Lake 1**	**Lake 2**	**SPW20-001**
		Time:	13:40	13:50	14:50
	Parameter		***Readings***	***Readings***	***Readings***	***Unit***
	Temperature		6.7	6.5	4.7	°C
	Barometric Pressure		727.6	727.6	726.3	mmHg
	Dissolved Oxygen %		88.3	91.7	50.3	DO%
	Dissolved Oxygen		10.79	11.1	6.07	DO
	Specific Conductance		68.8	63.6	787	SPC uS/cm
	pH		6.77	6.91	7.04	--
	Oxidation-Reduction potential		243.9	249.4	42.3	ORP
	Turbidity		-0.67	-0.88	5.47	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	October 22, 2020	**Measured by:**	VS	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	12:59	13:03	13:19	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	6.7	6.4	5.5	°C
Barometric Pressure	734.2	734.3	732.8	mmHg
Dissolved Oxygen %	88.2	90.4	30.3	DO%
Dissolved Oxygen	10.76	11.09	3.75	DO
Specific Conductance	88.5	64.5	846	SPC uS/cm
pH	6.66	6.75	6.83	--
Oxidation-Reduction potential	223.4	190.8	71.2	ORP
Turbidity	-0.81	-0.9	-0.62	FNU

Date:	October 23, 2020	**Measured by:**	VS	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	12:50	12:55	11:59	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	6	6	4.2	°C
Barometric Pressure	732.9	732.9	731.8	mmHg
Dissolved Oxygen %	87	86.8	47.3	DO%
Dissolved Oxygen	10.84	10.79	5.78	DO
Specific Conductance	66.3	64.6	825	SPC uS/cm
pH	6.79	6.93	6.95	--
Oxidation-Reduction potential	227.5	209.9	48	ORP
Turbidity	-0.88	-0.79	14.5	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	October 24, 2020	**Measured by:**	VS	
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**
	Time:	14:10	14:16	15:31

Parameter	*Readings*	*Readings*	*Readings*	*Unit*
Temperature	5.4	5.5	4.3	°C
Barometric Pressure	732.8	732.7	731	mmHg
Dissolved Oxygen %	81.6	83.8	36.4	DO%
Dissolved Oxygen	10.37	10.53	4.5	DO
Specific Conductance	66.3	66.3	860	SPC uS/cm
pH	6.67	6.79	7.21	--
Oxidation-Reduction potential	228.7	207.9	23.1	ORP
Turbidity	-0.97	-0.86	10.9	FNU

Date:	October 25, 2020	**Measured by:**	VS	
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**
	Time:	10:15	10:20	10:30

Parameter	*Readings*	*Readings*	*Readings*	*Unit*
Temperature	5.1	5	4.6	°C
Barometric Pressure	734.6	734.4	732.9	mmHg
Dissolved Oxygen %	81.3	82.2	32	DO%
Dissolved Oxygen	10.33	10.47	4.08	DO
Specific Conductance	67.3	64.6	884	SPC uS/cm
pH	6.67	6.87	6.96	--
Oxidation-Reduction potential	218.4	201.3	65.8	ORP
Turbidity	-0.86	-0.8	-0.27	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	October 26, 2020	**Measured by:**	VS		
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
	Time:	11:33	11:36	11:45	
	Parameter	***Readings***	***Readings***	***Readings***	***Unit***
	Temperature	5.1	5	5.4	°C
	Barometric Pressure	731.7	731.5	730.2	mmHg
	Dissolved Oxygen %	81.3	83	35.4	DO%
	Dissolved Oxygen	10.38	10.56	4.27	DO
	Specific Conductance	71.4	65.1	818	SPC uS/cm
	pH	6.56	6.56	6.87	--
	Oxidation-Reduction potential	219.7	183.9	66.6	ORP
	Turbidity	-0.81	-0.87	-0.44	FNU

Date:	October 27, 2020	**Measured by:**	VS		
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
	Time:	10:45	10:50	10:32	
	Parameter	***Readings***	***Readings***	***Readings***	***Unit***
	Temperature	4.6	4.6	4.5	°C
	Barometric Pressure	721.2	721.2	719.8	mmHg
	Dissolved Oxygen %	81.7	81.3	44.1	DO%
	Dissolved Oxygen	10.58	10.43	5.38	DO
	Specific Conductance	67	64.8	903	SPC uS/cm
	pH	6.65	6.72	6.96	--
	Oxidation-Reduction potential	195.3	191.8	31.2	ORP
	Turbidity	-0.7	-0.77	4.21	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	October 28, 2020	Measured by:	VS	
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**
	Time:	11:17	11:21	11:33

Parameter	*Readings*	*Readings*	*Readings*	*Unit*
Temperature	4.7	4.6	4.5	°C
Barometric Pressure	723.3	723.4	722.1	mmHg
Dissolved Oxygen %	82.5	82	41.2	DO%
Dissolved Oxygen	10.61	10.57	5.26	DO
Specific Conductance	67.3	64.8	938	SPC uS/cm
pH	6.66	6.84	7.12	--
Oxidation-Reduction potential	214.8	225.5	29.1	ORP
Turbidity	-0.59	-0.79	0.26	FNU

Date:	October 29, 2020	Measured by:	VS	
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**
	Time:	11:21	11:26	06:43

Parameter	*Readings*	*Readings*	*Readings*	*Unit*
Temperature	3.9	4	4.4	°C
Barometric Pressure	732	731.9	NA	mmHg
Dissolved Oxygen %	85.6	88	NA	DO%
Dissolved Oxygen	11.24	11.28	6.59	DO
Specific Conductance	65.3	64.8	963	SPC uS/cm
pH	6.64	6.52	7.1	--
Oxidation-Reduction potential	189.3	212.8	28.1	ORP
Turbidity	-0.69	-0.8	2.46	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	October 30, 2020	Measured by:	DN	
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**
	Time:	14:30	14:31	14:17

Parameter	*Readings*	*Readings*	*Readings*	*Unit*
Temperature	4	4	4.8	°C
Barometric Pressure	729.8	729.7	NA	mmHg
Dissolved Oxygen %	88.3	88.4	NA	DO%
Dissolved Oxygen	11.57	11.59	5.02	DO
Specific Conductance	67	64.7	998	SPC uS/cm
pH	6.31	6.57	7.08	--
Oxidation-Reduction potential	218.5	218.6	36	ORP
Turbidity	-0.87	-0.75	-0.59	FNU

Date:	October 31, 2020	Measured by:	DN	
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**
	Time:	11:42	11:40	11:25

Parameter	*Readings*	*Readings*	*Readings*	*Unit*
Temperature	3.7	3.7	4.8	°C
Barometric Pressure	709.8	709.8	708.4	mmHg
Dissolved Oxygen %	90.2	89.4	43.4	DO%
Dissolved Oxygen	11.9	11.8	5.55	DO
Specific Conductance	68.3	64.4	982	SPC uS/cm
pH	6.41	6.76	7.13	--
Oxidation-Reduction potential	214.8	212.7	16.3	ORP
Turbidity	-0.44	-0.75	17.75	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	November 1, 2020	**Measured by:**	DN	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	15:55	15:56	15:41	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	3.4	3.5	4.5	°C
Barometric Pressure	731.4	731.3	729.9	mmHg
Dissolved Oxygen %	93.3	93.6	32.9	DO%
Dissolved Oxygen	12.41	12.43	4.24	DO
Specific Conductance	67.6	65.2	998	SPC uS/cm
pH	7.29	7.29	7.26	--
Oxidation-Reduction potential	82.6	81.7	-2.9	ORP
Turbidity	-0.55	-0.64	1.99	FNU

Date:	November 2, 2020	**Measured by:**	DN	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	15:41	15:42	15:25	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	3.6	3.5	4.7	°C
Barometric Pressure	725.1	725.1	723.4	mmHg
Dissolved Oxygen %	95	94.1	33.1	DO%
Dissolved Oxygen	12.58	12.51	4.25	DO
Specific Conductance	65.2	64.5	1008	SPC uS/cm
pH	8.21	7.93	7.31	--
Oxidation-Reduction potential	42.8	54.8	-20.8	ORP
Turbidity	-0.59	-0.63	7.51	FNU

3134 - Water Sampling - Field Parameter using YSI

Date: November 3, 2020 **Measured by:** DN

	Location:	Lake 1	Lake 2	SPW20-001	
	Time:	15:29	15:30	15:10	
Parameter		*Readings*	*Readings*	*Readings*	*Unit*
Temperature		4.1	3.4	5.1	°C
Barometric Pressure		718.2	718.2	716.7	mmHg
Dissolved Oxygen %		94.9	94.8	31.7	DO%
Dissolved Oxygen		12.42	12.61	4.03	DO
Specific Conductance		66.3	64.6	1032	SPC uS/cm
pH		8.28	8.06	7.28	--
Oxidation-Reduction potential		91.3	94.2	-16.7	ORP
Turbidity		-0.76	-0.7	2.89	FNU

Date: November 4, 2020 **Measured by:** DN

	Location:	Lake 1	Lake 2	SPW20-001	
	Time:	10:40	10:40	09:30	
Parameter		*Readings*	*Readings*	*Readings*	*Unit*
Temperature		2.9	2.7	4.7	°C
Barometric Pressure		720.6	720.6	718.9	mmHg
Dissolved Oxygen %		90.7	92.2	23.8	DO%
Dissolved Oxygen		12.22	12.5	3.05	DO
Specific Conductance		66.2	64.4	1030	SPC uS/cm
pH		7.91	7.79	7.2	--
Oxidation-Reduction potential		172.3	172.9	3.8	ORP
Turbidity		-0.69	-0.77	-0.31	FNU

3134 - Water Sampling - Field Parameter using YSI

Date: November 5, 2020 **Measured by:** DN

	Location:	Lake 1	Lake 2	SPW20-001	
	Time:	15:47	15:47	15:33	
Parameter		*Readings*	*Readings*	*Readings*	*Unit*
Temperature		3.5	3.3	4.8	°C
Barometric Pressure		725.8	725.8	724.6	mmHg
Dissolved Oxygen %		98.3	96.4	32.3	DO%
Dissolved Oxygen		13.08	12.88	4.13	DO
Specific Conductance		64.5	64.3	1032	SPC uS/cm
pH		7.22	7.26	7.34	--
Oxidation-Reduction potential		87.4	90.3	12.5	ORP
Turbidity		-0.66	-0.55	-0.58	FNU

Date: November 6, 2020 **Measured by:** DN

	Location:	Lake 1	Lake 2	SPW20-001	
	Time:	15:17	15:18	15:08	
Parameter		*Readings*	*Readings*	*Readings*	*Unit*
Temperature		4.6	3.5	4.8	°C
Barometric Pressure		725.7	725.7	724.2	mmHg
Dissolved Oxygen %		92.1	91.8	32.3	DO%
Dissolved Oxygen		11.88	12.19	4.12	DO
Specific Conductance		66.7	65	1019	SPC uS/cm
pH		7.61	7.55	7.21	--
Oxidation-Reduction potential		92.3	104.5	2.8	ORP
Turbidity		-0.91	-0.85	3.71	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	November 7, 2020	**Measured by:**	DN	
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**
	Time:	14:35	14:37	14:20

Parameter	*Readings*	*Readings*	*Readings*	*Unit*
Temperature	3	2.9	4.6	°C
Barometric Pressure	725.4	725.5	723.9	mmHg
Dissolved Oxygen %	98.8	95.9	35.1	DO%
Dissolved Oxygen	13.29	12.93	4.52	DO
Specific Conductance	65	64.9	1040	SPC uS/cm
pH	7.92	7.77	7.14	--
Oxidation-Reduction potential	27.7	41	-6.5	ORP
Turbidity	-0.63	-0.82	-0.32	FNU

Date:	November 8, 2020	**Measured by:**	DN	
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**
	Time:	15:03	15:05	14:45

Parameter	*Readings*	*Readings*	*Readings*	*Unit*
Temperature	3.1	3	4.9	°C
Barometric Pressure	721.4	721.4	719.9	mmHg
Dissolved Oxygen %	97.5	96.7	27.2	DO%
Dissolved Oxygen	13.07	13.02	3.48	DO
Specific Conductance	65.9	65.6	1041	SPC uS/cm
pH	8.31	8.36	7.34	--
Oxidation-Reduction potential	91	92.5	-3.1	ORP
Turbidity	-0.59	-0.66	8.44	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	November 9, 2020	**Measured by:**	DN	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	10:30	10:32	09:21	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	3.5	3.5	5.5	°C
Barometric Pressure	719.1	719.1	717.7	mmHg
Dissolved Oxygen %	92.1	91.9	38.5	DO%
Dissolved Oxygen	12.23	12.19	4.84	DO
Specific Conductance	67.2	66.6	1066	SPC uS/cm
pH	8.24	8.32	7.25	--
Oxidation-Reduction potential	175.8	178.9	2.5	ORP
Turbidity	-0.69	-0.54	11	FNU

Date:	November 10, 2020	**Measured by:**	DN	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	16:18	16:19	15:50	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	2.8	2.8	4.7	°C
Barometric Pressure	722.7	722.6	721.5	mmHg
Dissolved Oxygen %	94.1	99.4	37.4	DO%
Dissolved Oxygen	12.72	13.44	4.8	DO
Specific Conductance	69.8	65	1065	SPC uS/cm
pH	8.21	7.99	7.31	--
Oxidation-Reduction potential	135.3	136.9	17.6	ORP
Turbidity	0.34	-0.54	0.17	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	November 11, 2020	**Measured by:**	DN	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	15:07	15:08	14:42	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	2.4	2.5	5.2	°C
Barometric Pressure	722.4	722.2	720.6	mmHg
Dissolved Oxygen %	105.2	101.4	44.4	DO%
Dissolved Oxygen	14.39	13.84	5.62	DO
Specific Conductance	64.9	65	1088	SPC uS/cm
pH	8.14	8.02	7.39	--
Oxidation-Reduction potential	141.9	140.4	35.4	ORP
Turbidity	-0.39	-0.48	0.01	FNU

Date:	November 12, 2020	**Measured by:**	DN	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	14:23	14:24	14:07	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	2.1	2.5	5.4	°C
Barometric Pressure	723.9	723.9	722.3	mmHg
Dissolved Oxygen %	93	94	38.5	DO%
Dissolved Oxygen	12.85	12.84	4.85	DO
Specific Conductance	71	66	1078	SPC uS/cm
pH	8.25	8.25	7.43	--
Oxidation-Reduction potential	155.2	147	4.1	ORP
Turbidity	0.99	-0.8	-0.24	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	November 13, 2020	**Measured by:**	DN	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	14:54	14:58	14:07	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	1.9	2	5	°C
Barometric Pressure	722.8	722.7	721.7	mmHg
Dissolved Oxygen %	95	97.4	23	DO%
Dissolved Oxygen	13.19	13.45	2.92	DO
Specific Conductance	66.3	64.9	1081	SPC uS/cm
pH	8.17	8.16	7.26	--
Oxidation-Reduction potential	169.1	173.3	-1.7	ORP
Turbidity	-0.36	-0.67	7.3	FNU

Date:	November 14, 2020	**Measured by:**	DN	
Location:	**Lake 1**	**Lake 2**	**SPW20-001**	
Time:	14:57	14:58	14:30	
Parameter	***Readings***	***Readings***	***Readings***	***Unit***
Temperature	0.3	1.3	4.7	°C
Barometric Pressure	713.1	713.1	711.5	mmHg
Dissolved Oxygen %	93.5	94	22.2	DO%
Dissolved Oxygen	13.56	13.25	2.85	DO
Specific Conductance	66.6	65	1080	SPC uS/cm
pH	8.12	7.97	7.27	--
Oxidation-Reduction potential	133	129.5	5	ORP
Turbidity	7.54	0.56	3.32	FNU

3134 - Water Sampling - Field Parameter using YSI

Date:	November 15, 2020	**Measured by:**	DN	
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**
	Time:	15:46	15:47	15:15

Parameter	*Readings*	*Readings*	*Readings*	*Unit*
Temperature	1.6	1.8	4.7	°C
Barometric Pressure	714.4	714.3	712.5	mmHg
Dissolved Oxygen %	96.6	99.3	38.5	DO%
Dissolved Oxygen	13.52	13.82	4.94	DO
Specific Conductance	80	67	1085	SPC uS/cm
pH	8.23	8.29	7.41	--
Oxidation-Reduction potential	84.3	87.1	59.2	ORP
Turbidity	0.32	-0.63	3.23	FNU

Date:	November 16, 2020	**Measured by:**	DN	
	Location:	**Lake 1**	**Lake 2**	**SPW20-001**
	Time:	NA	NA	11:42

Parameter	*Readings*	*Readings*	*Readings*	*Unit*
Temperature	NA	NA	4.6	°C
Barometric Pressure	NA	NA	724.8	mmHg
Dissolved Oxygen %	NA	NA	12.7	DO%
Dissolved Oxygen	NA	NA	1.64	DO
Specific Conductance	NA	NA	1096	SPC uS/cm
pH	NA	NA	7.25	--
Oxidation-Reduction potential	NA	NA	17.9	ORP
Turbidity	NA	NA	1.76	FNU

3134 - Water Sampling - Field Parameter using YSI

Date: November 17, 2020 **Measured by:** DN

	Location:	Lake 1	Lake 2	SPW20-001	
	Time:	11:10	12:35	NA	
Parameter		*Readings*	*Readings*	*Readings*	*Unit*
Temperature		2.2	1.6	NA	°C
Barometric Pressure		736.4	736.5	NA	mmHg
Dissolved Oxygen %		96.3	101.2	NA	DO%
Dissolved Oxygen		13.23	14.13	NA	DO
Specific Conductance		68	66.3	NA	SPC uS/cm
pH		8.24	8.36	NA	--
Oxidation-Reduction potential		260.4	263.3	NA	ORP
Turbidity		-0.57	-0.48	NA	FNU

APPENDIX H

Laboratory Analytical Reports

GOLD CANYON RESOURCES INC.
ATTN: David Mchaina
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 21-AUG-19
Report Date: 04-SEP-19 13:21 (MT)
Version: FINAL

Client Phone: 705-929-5245

Certificate of Analysis

Lab Work Order #: L2332873
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Amanda Loesch
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2332873-1 3134-BL98-40M Sampled By: CLIENT on 18-AUG-19 @ 15:30 Matrix: Ground Water							
Physical Tests							
Conductivity	486		2.0	uS/cm		27-AUG-19	R4774469
Hardness (as CaCO3)	255		0.50	mg/L		27-AUG-19	
pH	8.49		0.10	pH		27-AUG-19	R4774469
Total Suspended Solids	4.0		2.0	mg/L		22-AUG-19	R4765527
Total Dissolved Solids	297		20	mg/L		23-AUG-19	R4767934
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		28-AUG-19	R4773008
Alkalinity, Bicarbonate (as CaCO3)	249		1.0	mg/L		27-AUG-19	R4774469
Alkalinity, Carbonate (as CaCO3)	15.8		1.0	mg/L		27-AUG-19	R4774469
Alkalinity, Hydroxide (as CaCO3)	<1.0		1.0	mg/L		27-AUG-19	R4774469
Alkalinity, Phenolphthalein (as CaCO3)	7.9		2.0	mg/L		27-AUG-19	R4774469
Alkalinity, Total (as CaCO3)	265		1.0	mg/L		27-AUG-19	R4774469
Ammonia, Total (as N)	0.255		0.020	mg/L		23-AUG-19	R4765548
Bromide (Br)	<0.10		0.10	mg/L		23-AUG-19	R4767949
Chloride (Cl)	0.72		0.10	mg/L		23-AUG-19	R4767949
Fluoride (F)	0.136		0.020	mg/L		23-AUG-19	R4767949
Nitrate (as N)	<0.020		0.020	mg/L		23-AUG-19	R4767949
Nitrite (as N)	<0.010		0.010	mg/L		23-AUG-19	R4767949
Phosphorus (P)-Total	0.0129		0.0030	mg/L	23-AUG-19	23-AUG-19	R4768521
Silica, Reactive (as SiO2)	14.0		1.0	mg/L		27-AUG-19	R4774389
Sulfate (SO4)	21.6		0.30	mg/L		23-AUG-19	R4767949
Total Metals							
Aluminum (Al)-Total	0.0304		0.0030	mg/L	22-AUG-19	26-AUG-19	R4769444
Antimony (Sb)-Total	0.00017		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Arsenic (As)-Total	0.00630		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Barium (Ba)-Total	0.116		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Beryllium (Be)-Total	0.00071		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Boron (B)-Total	0.017		0.010	mg/L	22-AUG-19	26-AUG-19	R4769444
Cadmium (Cd)-Total	0.0000322		0.0000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Calcium (Ca)-Total	78.2		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Cesium (Cs)-Total	0.000293		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Chromium (Cr)-Total	0.00173		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Cobalt (Co)-Total	0.00192		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Copper (Cu)-Total	0.0241		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444
Iron (Fe)-Total	1.07		0.010	mg/L	22-AUG-19	26-AUG-19	R4769444
Lead (Pb)-Total	0.00266		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Lithium (Li)-Total	0.0024		0.0010	mg/L	22-AUG-19	26-AUG-19	R4769444
Magnesium (Mg)-Total	19.7		0.0050	mg/L	22-AUG-19	26-AUG-19	R4769444
Manganese (Mn)-Total	1.43		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Molybdenum (Mo)-Total	0.00172		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2332873-1 3134-BL98-40M Sampled By: CLIENT on 18-AUG-19 @ 15:30 Matrix: Ground Water							
Total Metals							
Nickel (Ni)-Total	0.00398		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444
Phosphorus (P)-Total	<0.050		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Potassium (K)-Total	2.31		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Rubidium (Rb)-Total	0.00201		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Selenium (Se)-Total	0.000092		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Silicon (Si)-Total	6.60		0.10	mg/L	22-AUG-19	26-AUG-19	R4769444
Silver (Ag)-Total	<0.000010		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Sodium (Na)-Total	4.50		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Strontium (Sr)-Total	1.19		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Sulfur (S)-Total	8.06		0.50	mg/L	22-AUG-19	26-AUG-19	R4769444
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Thallium (Tl)-Total	0.000021		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Thorium (Th)-Total	<0.00010		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Tin (Sn)-Total	<0.00010		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Titanium (Ti)-Total	0.00103		0.00030	mg/L	22-AUG-19	26-AUG-19	R4769444
Tungsten (W)-Total	0.00223		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Uranium (U)-Total	0.000297		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Vanadium (V)-Total	0.00127		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444
Zinc (Zn)-Total	0.170		0.0030	mg/L	22-AUG-19	26-AUG-19	R4769444
Zirconium (Zr)-Total	0.00303		0.000060	mg/L	22-AUG-19	26-AUG-19	R4769444
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					22-AUG-19	R4767424
Aluminum (Al)-Dissolved	0.0045		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Antimony (Sb)-Dissolved	0.00014		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Arsenic (As)-Dissolved	0.00263		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Barium (Ba)-Dissolved	0.107		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Beryllium (Be)-Dissolved	0.00038		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Boron (B)-Dissolved	0.016		0.010	mg/L	22-AUG-19	23-AUG-19	R4768494
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Calcium (Ca)-Dissolved	72.5		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Cesium (Cs)-Dissolved	0.000279		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Chromium (Cr)-Dissolved	0.00037		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Cobalt (Co)-Dissolved	0.00166		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Copper (Cu)-Dissolved	0.00115		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Iron (Fe)-Dissolved	0.262		0.010	mg/L	22-AUG-19	23-AUG-19	R4768494
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Lithium (Li)-Dissolved	0.0030		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Magnesium (Mg)-Dissolved	18.0		0.0050	mg/L	22-AUG-19	23-AUG-19	R4768494
Manganese (Mn)-Dissolved	1.27		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Molybdenum (Mo)-Dissolved	0.00169		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2332873-1 3134-BL98-40M Sampled By: CLIENT on 18-AUG-19 @ 15:30 Matrix: Ground Water							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00354		0.00050	mg/L	22-AUG-19	23-AUG-19	R4768494
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Potassium (K)-Dissolved	2.25		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Rubidium (Rb)-Dissolved	0.00186		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Selenium (Se)-Dissolved	0.000065		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Silicon (Si)-Dissolved	6.25		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Sodium (Na)-Dissolved	4.27		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Strontium (Sr)-Dissolved	1.10		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Sulfur (S)-Dissolved	8.21		0.50	mg/L	22-AUG-19	23-AUG-19	R4768494
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Thallium (Tl)-Dissolved	0.000011		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	22-AUG-19	23-AUG-19	R4768494
Tungsten (W)-Dissolved	0.00172		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Uranium (U)-Dissolved	0.000300		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Vanadium (V)-Dissolved	0.00070		0.00050	mg/L	22-AUG-19	23-AUG-19	R4768494
Zinc (Zn)-Dissolved	0.150		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Zirconium (Zr)-Dissolved	0.00198		0.000060	mg/L	22-AUG-19	23-AUG-19	R4768494
L2332873-2 3134-BL98-238M Sampled By: CLIENT on 19-AUG-19 @ 10:05 Matrix: Ground Water							
Physical Tests							
Conductivity	484		2.0	uS/cm		27-AUG-19	R4774469
Hardness (as CaCO3)	242		0.50	mg/L		27-AUG-19	
pH	8.50		0.10	pH		27-AUG-19	R4774469
Total Suspended Solids	10.4		6.0	mg/L		22-AUG-19	R4765951
Total Dissolved Solids	292		20	mg/L		23-AUG-19	R4768033
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		28-AUG-19	R4773008
Alkalinity, Bicarbonate (as CaCO3)	260		1.0	mg/L		27-AUG-19	R4774469
Alkalinity, Carbonate (as CaCO3)	16.6		1.0	mg/L		27-AUG-19	R4774469
Alkalinity, Hydroxide (as CaCO3)	<1.0		1.0	mg/L		27-AUG-19	R4774469
Alkalinity, Phenolphthalein (as CaCO3)	8.3		2.0	mg/L		27-AUG-19	R4774469
Alkalinity, Total (as CaCO3)	277		1.0	mg/L		27-AUG-19	R4774469
Ammonia, Total (as N)	0.254		0.020	mg/L		23-AUG-19	R4765548
Bromide (Br)	<0.10		0.10	mg/L		23-AUG-19	R4767949
Chloride (Cl)	1.90		0.10	mg/L		23-AUG-19	R4767949
Fluoride (F)	0.100		0.020	mg/L		23-AUG-19	R4767949
Nitrate (as N)	0.030		0.020	mg/L		23-AUG-19	R4767949
Nitrite (as N)	<0.010		0.010	mg/L		23-AUG-19	R4767949

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2332873-2 3134-BL98-238M Sampled By: CLIENT on 19-AUG-19 @ 10:05 Matrix: Ground Water							
Anions and Nutrients							
Phosphorus (P)-Total	0.0239		0.0030	mg/L	23-AUG-19	23-AUG-19	R4768521
Silica, Reactive (as SiO2)	14.5		1.0	mg/L		27-AUG-19	R4774389
Sulfate (SO4)	6.97		0.30	mg/L		23-AUG-19	R4767949
Total Metals							
Aluminum (Al)-Total	0.0272		0.0030	mg/L	22-AUG-19	26-AUG-19	R4769444
Antimony (Sb)-Total	0.00030		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Arsenic (As)-Total	0.0158		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Barium (Ba)-Total	0.134		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Beryllium (Be)-Total	0.00151		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Boron (B)-Total	0.027		0.010	mg/L	22-AUG-19	26-AUG-19	R4769444
Cadmium (Cd)-Total	0.0000135		0.0000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Calcium (Ca)-Total	76.0		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Cesium (Cs)-Total	0.000378		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Chromium (Cr)-Total	0.00234		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Cobalt (Co)-Total	0.00223		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Copper (Cu)-Total	0.00758		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444
Iron (Fe)-Total	2.69		0.010	mg/L	22-AUG-19	26-AUG-19	R4769444
Lead (Pb)-Total	0.00218		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Lithium (Li)-Total	0.0027		0.0010	mg/L	22-AUG-19	26-AUG-19	R4769444
Magnesium (Mg)-Total	18.2		0.0050	mg/L	22-AUG-19	26-AUG-19	R4769444
Manganese (Mn)-Total	3.39		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Molybdenum (Mo)-Total	0.00150		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Nickel (Ni)-Total	0.00156		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444
Phosphorus (P)-Total	<0.050		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Potassium (K)-Total	2.21		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Rubidium (Rb)-Total	0.00187		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Selenium (Se)-Total	0.000075		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Silicon (Si)-Total	6.69		0.10	mg/L	22-AUG-19	26-AUG-19	R4769444
Silver (Ag)-Total	<0.000010		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Sodium (Na)-Total	6.76		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Strontium (Sr)-Total	1.12		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Sulfur (S)-Total	2.73		0.50	mg/L	22-AUG-19	26-AUG-19	R4769444
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Thorium (Th)-Total	<0.00010		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Tin (Sn)-Total	<0.00010		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Titanium (Ti)-Total	0.00113		0.00030	mg/L	22-AUG-19	26-AUG-19	R4769444
Tungsten (W)-Total	0.00172		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Uranium (U)-Total	0.000374		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Vanadium (V)-Total	0.00209		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2332873-2 3134-BL98-238M Sampled By: CLIENT on 19-AUG-19 @ 10:05 Matrix: Ground Water							
Total Metals							
Zinc (Zn)-Total	0.129		0.0030	mg/L	22-AUG-19	26-AUG-19	R4769444
Zirconium (Zr)-Total	0.00540		0.000060	mg/L	22-AUG-19	26-AUG-19	R4769444
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					22-AUG-19	R4767424
Aluminum (Al)-Dissolved	0.0041		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Antimony (Sb)-Dissolved	0.00023		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Arsenic (As)-Dissolved	0.00709		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Barium (Ba)-Dissolved	0.120		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Beryllium (Be)-Dissolved	0.00069		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Boron (B)-Dissolved	0.023		0.010	mg/L	22-AUG-19	23-AUG-19	R4768494
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Calcium (Ca)-Dissolved	70.5		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Cesium (Cs)-Dissolved	0.000375		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Chromium (Cr)-Dissolved	0.00308		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Cobalt (Co)-Dissolved	0.00176		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Copper (Cu)-Dissolved	0.00023		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Iron (Fe)-Dissolved	1.10		0.010	mg/L	22-AUG-19	23-AUG-19	R4768494
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Lithium (Li)-Dissolved	0.0028		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Magnesium (Mg)-Dissolved	16.0		0.0050	mg/L	22-AUG-19	23-AUG-19	R4768494
Manganese (Mn)-Dissolved	3.27		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Molybdenum (Mo)-Dissolved	0.00166		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Nickel (Ni)-Dissolved	0.00162		0.00050	mg/L	22-AUG-19	23-AUG-19	R4768494
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Potassium (K)-Dissolved	2.11		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Rubidium (Rb)-Dissolved	0.00176		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Silicon (Si)-Dissolved	6.60		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Sodium (Na)-Dissolved	6.36		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Strontium (Sr)-Dissolved	1.03		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Sulfur (S)-Dissolved	2.53		0.50	mg/L	22-AUG-19	23-AUG-19	R4768494
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	22-AUG-19	23-AUG-19	R4768494
Tungsten (W)-Dissolved	0.00172		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Uranium (U)-Dissolved	0.000370		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Vanadium (V)-Dissolved	0.00108		0.00050	mg/L	22-AUG-19	23-AUG-19	R4768494

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2332873-2 3134-BL98-238M Sampled By: CLIENT on 19-AUG-19 @ 10:05 Matrix: Ground Water							
Dissolved Metals							
Zinc (Zn)-Dissolved	0.0354		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Zirconium (Zr)-Dissolved	0.00269		0.000060	mg/L	22-AUG-19	23-AUG-19	R4768494
L2332873-3 3134-BL24-49M Sampled By: CLIENT on 19-AUG-19 @ 13:30 Matrix: Ground Water							
Physical Tests							
Conductivity	444		2.0	uS/cm		27-AUG-19	R4774469
Hardness (as CaCO3)	230		0.50	mg/L		27-AUG-19	
pH	8.43		0.10	pH		27-AUG-19	R4774469
Total Suspended Solids	44.0		3.0	mg/L		22-AUG-19	R4765951
Total Dissolved Solids	275		20	mg/L		23-AUG-19	R4768033
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		28-AUG-19	R4773008
Alkalinity, Bicarbonate (as CaCO3)	218		1.0	mg/L		27-AUG-19	R4774469
Alkalinity, Carbonate (as CaCO3)	9.2		1.0	mg/L		27-AUG-19	R4774469
Alkalinity, Hydroxide (as CaCO3)	<1.0		1.0	mg/L		27-AUG-19	R4774469
Alkalinity, Phenolphthalein (as CaCO3)	4.6		2.0	mg/L		27-AUG-19	R4774469
Alkalinity, Total (as CaCO3)	227		1.0	mg/L		27-AUG-19	R4774469
Ammonia, Total (as N)	0.052		0.020	mg/L		23-AUG-19	R4765548
Bromide (Br)	<0.10		0.10	mg/L		23-AUG-19	R4767949
Chloride (Cl)	0.70		0.10	mg/L		23-AUG-19	R4767949
Fluoride (F)	0.030		0.020	mg/L		23-AUG-19	R4767949
Nitrate (as N)	<0.020		0.020	mg/L		23-AUG-19	R4767949
Nitrite (as N)	<0.010		0.010	mg/L		23-AUG-19	R4767949
Phosphorus (P)-Total	0.0486		0.0030	mg/L	23-AUG-19	23-AUG-19	R4768521
Silica, Reactive (as SiO2)	9.5		1.0	mg/L		27-AUG-19	R4774389
Sulfate (SO4)	23.1		0.30	mg/L		23-AUG-19	R4767949
Total Metals							
Aluminum (Al)-Total	1.36		0.0030	mg/L	22-AUG-19	26-AUG-19	R4769444
Antimony (Sb)-Total	0.00040		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Arsenic (As)-Total	0.0132		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Barium (Ba)-Total	0.0432		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Beryllium (Be)-Total	0.00092		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Boron (B)-Total	<0.010		0.010	mg/L	22-AUG-19	26-AUG-19	R4769444
Cadmium (Cd)-Total	0.0000428		0.0000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Calcium (Ca)-Total	78.4		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Cesium (Cs)-Total	0.00105		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Chromium (Cr)-Total	0.00650		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Cobalt (Co)-Total	0.00472		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Copper (Cu)-Total	0.0644		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444
Iron (Fe)-Total	2.34		0.010	mg/L	22-AUG-19	26-AUG-19	R4769444

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2332873-3 3134-BL24-49M Sampled By: CLIENT on 19-AUG-19 @ 13:30 Matrix: Ground Water							
Total Metals							
Lead (Pb)-Total	0.00981		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Lithium (Li)-Total	0.0016		0.0010	mg/L	22-AUG-19	26-AUG-19	R4769444
Magnesium (Mg)-Total	13.1		0.0050	mg/L	22-AUG-19	26-AUG-19	R4769444
Manganese (Mn)-Total	0.274		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Molybdenum (Mo)-Total	0.000553		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Nickel (Ni)-Total	0.00411		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444
Phosphorus (P)-Total	<0.050		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Potassium (K)-Total	1.00		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Rubidium (Rb)-Total	0.00221		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Selenium (Se)-Total	0.000089		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Silicon (Si)-Total	6.05		0.10	mg/L	22-AUG-19	26-AUG-19	R4769444
Silver (Ag)-Total	0.000082		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Sodium (Na)-Total	2.07		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Strontium (Sr)-Total	0.374		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Sulfur (S)-Total	9.44		0.50	mg/L	22-AUG-19	26-AUG-19	R4769444
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Thallium (Tl)-Total	0.000021		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Thorium (Th)-Total	0.00020		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Tin (Sn)-Total	0.00011		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Titanium (Ti)-Total	0.0401		0.00030	mg/L	22-AUG-19	26-AUG-19	R4769444
Tungsten (W)-Total	0.00214		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Uranium (U)-Total	0.000260		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Vanadium (V)-Total	0.00342		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444
Zinc (Zn)-Total	0.145		0.0030	mg/L	22-AUG-19	26-AUG-19	R4769444
Zirconium (Zr)-Total	0.00259		0.000060	mg/L	22-AUG-19	26-AUG-19	R4769444
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					22-AUG-19	R4767424
Aluminum (Al)-Dissolved	0.0196		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Antimony (Sb)-Dissolved	0.00019		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Arsenic (As)-Dissolved	0.00382		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Barium (Ba)-Dissolved	0.0354		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Beryllium (Be)-Dissolved	0.00014		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Boron (B)-Dissolved	<0.010		0.010	mg/L	22-AUG-19	23-AUG-19	R4768494
Cadmium (Cd)-Dissolved	0.0000214		0.0000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Calcium (Ca)-Dissolved	73.4		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Cesium (Cs)-Dissolved	0.000543		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Chromium (Cr)-Dissolved	0.00018		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Cobalt (Co)-Dissolved	0.00155		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Copper (Cu)-Dissolved	0.00393		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Iron (Fe)-Dissolved	0.069		0.010	mg/L	22-AUG-19	23-AUG-19	R4768494

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2332873-3 3134-BL24-49M Sampled By: CLIENT on 19-AUG-19 @ 13:30 Matrix: Ground Water							
Dissolved Metals							
Lead (Pb)-Dissolved	0.000136		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Magnesium (Mg)-Dissolved	11.4		0.0050	mg/L	22-AUG-19	23-AUG-19	R4768494
Manganese (Mn)-Dissolved	0.224		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Molybdenum (Mo)-Dissolved	0.000535		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Nickel (Ni)-Dissolved	0.00112		0.00050	mg/L	22-AUG-19	23-AUG-19	R4768494
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Potassium (K)-Dissolved	0.855		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Rubidium (Rb)-Dissolved	0.00130		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Selenium (Se)-Dissolved	0.000063		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Silicon (Si)-Dissolved	4.29		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Sodium (Na)-Dissolved	1.95		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Strontium (Sr)-Dissolved	0.354		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Sulfur (S)-Dissolved	9.32		0.50	mg/L	22-AUG-19	23-AUG-19	R4768494
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Titanium (Ti)-Dissolved	0.00051		0.00030	mg/L	22-AUG-19	23-AUG-19	R4768494
Tungsten (W)-Dissolved	0.00033		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Uranium (U)-Dissolved	0.000234		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	22-AUG-19	23-AUG-19	R4768494
Zinc (Zn)-Dissolved	0.131		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Zirconium (Zr)-Dissolved	0.00224		0.000060	mg/L	22-AUG-19	23-AUG-19	R4768494
L2332873-4 3134-BL24-238M Sampled By: CLIENT on 19-AUG-19 @ 18:00 Matrix: Ground Water							
Physical Tests							
Conductivity	494		2.0	uS/cm		27-AUG-19	R4770223
Hardness (as CaCO3)	251		0.50	mg/L		28-AUG-19	
pH	8.40		0.10	pH		27-AUG-19	R4770223
Total Suspended Solids	184		3.0	mg/L		22-AUG-19	R4765951
Total Dissolved Solids	327		20	mg/L		23-AUG-19	R4768037
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		31-AUG-19	R4779528
Alkalinity, Bicarbonate (as CaCO3)	242		1.0	mg/L		27-AUG-19	R4770223
Alkalinity, Carbonate (as CaCO3)	13.6		1.0	mg/L		27-AUG-19	R4770223
Alkalinity, Hydroxide (as CaCO3)	<1.0		1.0	mg/L		27-AUG-19	R4770223
Alkalinity, Phenolphthalein (as CaCO3)	6.8		2.0	mg/L		27-AUG-19	R4770223
Alkalinity, Total (as CaCO3)	256		1.0	mg/L		27-AUG-19	R4770223
Ammonia, Total (as N)	0.076		0.020	mg/L		23-AUG-19	R4765548

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2332873-4 3134-BL24-238M Sampled By: CLIENT on 19-AUG-19 @ 18:00 Matrix: Ground Water							
Anions and Nutrients							
Bromide (Br)	<0.10		0.10	mg/L		23-AUG-19	R4767949
Chloride (Cl)	0.42		0.10	mg/L		23-AUG-19	R4767949
Fluoride (F)	0.034		0.020	mg/L		23-AUG-19	R4767949
Nitrate (as N)	<0.020		0.020	mg/L		23-AUG-19	R4767949
Nitrite (as N)	<0.010		0.010	mg/L		23-AUG-19	R4767949
Phosphorus (P)-Total	0.237		0.030	mg/L	23-AUG-19	23-AUG-19	R4768521
Silica, Reactive (as SiO2)	9.2		1.0	mg/L		27-AUG-19	R4774389
Sulfate (SO4)	28.2		0.30	mg/L		23-AUG-19	R4767949
Total Metals							
Aluminum (Al)-Total	3.34		0.0030	mg/L	22-AUG-19	26-AUG-19	R4769444
Antimony (Sb)-Total	0.00063		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Arsenic (As)-Total	0.0304		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Barium (Ba)-Total	0.0839		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Beryllium (Be)-Total	0.00477		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Boron (B)-Total	0.011		0.010	mg/L	22-AUG-19	26-AUG-19	R4769444
Cadmium (Cd)-Total	0.000173		0.0000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Calcium (Ca)-Total	89.8		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Cesium (Cs)-Total	0.00258		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Chromium (Cr)-Total	0.0125		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Cobalt (Co)-Total	0.0191		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Copper (Cu)-Total	0.322		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444
Iron (Fe)-Total	5.96		0.010	mg/L	22-AUG-19	26-AUG-19	R4769444
Lead (Pb)-Total	0.0472		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Lithium (Li)-Total	0.0037		0.0010	mg/L	22-AUG-19	26-AUG-19	R4769444
Magnesium (Mg)-Total	15.2		0.0050	mg/L	22-AUG-19	26-AUG-19	R4769444
Manganese (Mn)-Total	0.603		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Molybdenum (Mo)-Total	0.000470		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Nickel (Ni)-Total	0.00919		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444
Phosphorus (P)-Total	0.218		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Potassium (K)-Total	1.29		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Rubidium (Rb)-Total	0.00342		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Selenium (Se)-Total	0.000098		0.000050	mg/L	22-AUG-19	26-AUG-19	R4769444
Silicon (Si)-Total	7.02		0.10	mg/L	22-AUG-19	26-AUG-19	R4769444
Silver (Ag)-Total	0.000121		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Sodium (Na)-Total	3.05		0.050	mg/L	22-AUG-19	26-AUG-19	R4769444
Strontium (Sr)-Total	0.448		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Sulfur (S)-Total	10.8		0.50	mg/L	22-AUG-19	26-AUG-19	R4769444
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	22-AUG-19	26-AUG-19	R4769444
Thallium (Tl)-Total	0.000048		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Thorium (Th)-Total	0.00061		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2332873-4 3134-BL24-238M Sampled By: CLIENT on 19-AUG-19 @ 18:00 Matrix: Ground Water							
Total Metals							
Tin (Sn)-Total	<0.00010		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Titanium (Ti)-Total	0.0413		0.00030	mg/L	22-AUG-19	26-AUG-19	R4769444
Tungsten (W)-Total	0.00142		0.00010	mg/L	22-AUG-19	26-AUG-19	R4769444
Uranium (U)-Total	0.000372		0.000010	mg/L	22-AUG-19	26-AUG-19	R4769444
Vanadium (V)-Total	0.00800		0.00050	mg/L	22-AUG-19	26-AUG-19	R4769444
Zinc (Zn)-Total	0.456		0.0030	mg/L	22-AUG-19	26-AUG-19	R4769444
Zirconium (Zr)-Total	0.00436		0.000060	mg/L	22-AUG-19	26-AUG-19	R4769444
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					22-AUG-19	R4767424
Aluminum (Al)-Dissolved	0.0206		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Antimony (Sb)-Dissolved	0.00030		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Arsenic (As)-Dissolved	0.00514		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Barium (Ba)-Dissolved	0.0392		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Beryllium (Be)-Dissolved	0.00028		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Boron (B)-Dissolved	<0.010		0.010	mg/L	22-AUG-19	23-AUG-19	R4768494
Cadmium (Cd)-Dissolved	0.0000230		0.0000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Calcium (Ca)-Dissolved	80.9		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Cesium (Cs)-Dissolved	0.000630		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Chromium (Cr)-Dissolved	0.00025		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Cobalt (Co)-Dissolved	0.00463		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Copper (Cu)-Dissolved	0.00265		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Iron (Fe)-Dissolved	0.087		0.010	mg/L	22-AUG-19	23-AUG-19	R4768494
Lead (Pb)-Dissolved	0.000125		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Lithium (Li)-Dissolved	0.0011		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Magnesium (Mg)-Dissolved	11.8		0.0050	mg/L	22-AUG-19	23-AUG-19	R4768494
Manganese (Mn)-Dissolved	0.413		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Molybdenum (Mo)-Dissolved	0.00102	DTC	0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Nickel (Ni)-Dissolved	0.00149		0.00050	mg/L	22-AUG-19	23-AUG-19	R4768494
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Potassium (K)-Dissolved	0.954		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Rubidium (Rb)-Dissolved	0.00165		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Selenium (Se)-Dissolved	0.000054		0.000050	mg/L	22-AUG-19	23-AUG-19	R4768494
Silicon (Si)-Dissolved	4.25		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Sodium (Na)-Dissolved	2.86		0.050	mg/L	22-AUG-19	23-AUG-19	R4768494
Strontium (Sr)-Dissolved	0.397		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Sulfur (S)-Dissolved	10.3		0.50	mg/L	22-AUG-19	23-AUG-19	R4768494
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	22-AUG-19	23-AUG-19	R4768494
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2332873-4 3134-BL24-238M Sampled By: CLIENT on 19-AUG-19 @ 18:00 Matrix: Ground Water							
Dissolved Metals							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Titanium (Ti)-Dissolved	0.00041		0.00030	mg/L	22-AUG-19	23-AUG-19	R4768494
Tungsten (W)-Dissolved	0.00078		0.00010	mg/L	22-AUG-19	23-AUG-19	R4768494
Uranium (U)-Dissolved	0.000241		0.000010	mg/L	22-AUG-19	23-AUG-19	R4768494
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	22-AUG-19	23-AUG-19	R4768494
Zinc (Zn)-Dissolved	0.242		0.0010	mg/L	22-AUG-19	23-AUG-19	R4768494
Zirconium (Zr)-Dissolved	0.00125		0.000060	mg/L	22-AUG-19	23-AUG-19	R4768494

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Acidity (as CaCO3)	B	L2332873-1, -2, -3
Laboratory Control Sample	Acidity (as CaCO3)	LCS-H	L2332873-1, -2, -3
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Iron (Fe)-Dissolved	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Barium (Ba)-Total	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Copper (Cu)-Total	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Manganese (Mn)-Total	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Sodium (Na)-Total	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Total	MS-B	L2332873-1, -2, -3, -4
Matrix Spike	Silica, Reactive (as SiO2)	MS-B	L2332873-1, -2, -3, -4

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 Acidity

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

Samples of industrial wastes, acid mine drainage, or other solutions that contain appreciable amounts of hydrolyzable metal ions such as aluminum, iron, and manganese may require hot peroxide treatment to ensure oxidation and hydrolysis of reduced forms of polyvalent cations. Acidity results may be highly variable if this procedure is not followed. Results in this report for 'Acidity (as CaCO3)' have not been peroxide treated.

ALK-TITR-VA	Water	Alkalinity Species by Titration	APHA 2320 Alkalinity

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Reference Information

NH3-COL-TB	Water	Ammonia by Discrete Analyzer	APHA 4500-NH3 G. (modified)

Ammonia in aqueous matrices is analyzed using discrete analyzer with colourimetric detection.

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

SIO2-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2332873 Report Date: 04-SEP-19

Client: GOLD CANYON RESOURCES INC.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2
Contact: David Mchaina

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-PCT-VA	Water							
Batch R4773008								
WG3143927-3 LCS								
Acidity (as CaCO3)			4.0	LCS-H	%		85-115	28-AUG-19
Acidity (as CaCO3)			4.0	LCS-H	%		85-115	28-AUG-19
WG3143927-1 MB								
Acidity (as CaCO3)			2.1	B	mg/L		2	28-AUG-19
Batch R4779528								
WG3143779-3 LCS								
Acidity (as CaCO3)			101.4		%		85-115	31-AUG-19
WG3143779-1 MB								
Acidity (as CaCO3)			<1.0		mg/L		2	31-AUG-19
ALK-TITR-VA	Water							
Batch R4770223								
WG3143762-9 DUP		**L2332873-4**						
Alkalinity, Total (as CaCO3)		256	252		mg/L	1.7	20	27-AUG-19
Alkalinity, Phenolphthalein (as CaCO3)		6.8	6.9		mg/L	1.5	20	27-AUG-19
WG3143762-3 LCS								
Alkalinity, Total (as CaCO3)			101.3		%		85-115	27-AUG-19
Alkalinity, Phenolphthalein (as CaCO3)			106.1		%		85-115	27-AUG-19
WG3143762-1 MB								
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	27-AUG-19
Alkalinity, Phenolphthalein (as CaCO3)			<2.0		mg/L		2	27-AUG-19
Batch R4774469								
WG3143870-3 LCS								
Alkalinity, Total (as CaCO3)			100.0		%		85-115	27-AUG-19
Alkalinity, Phenolphthalein (as CaCO3)			91.9		%		85-115	27-AUG-19
WG3143870-1 MB								
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	27-AUG-19
Alkalinity, Phenolphthalein (as CaCO3)			<2.0		mg/L		2	27-AUG-19
BR-IC-N-TB	Water							
Batch R4767949								
WG3141515-2 LCS								
Bromide (Br)			109.6		%		85-115	23-AUG-19
WG3141515-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	23-AUG-19
CL-L-IC-N-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB	Water							
Batch R4767949								
WG3141515-2 LCS								
Chloride (Cl)			103.7		%		90-110	23-AUG-19
WG3141515-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	23-AUG-19
EC-PCT-VA	Water							
Batch R4774469								
WG3143870-3 LCS								
Conductivity			100.4		%		90-110	27-AUG-19
WG3143870-1 MB								
Conductivity			<2.0		uS/cm		2	27-AUG-19
F-IC-N-TB	Water							
Batch R4767949								
WG3141515-2 LCS								
Fluoride (F)			105.5		%		90-110	23-AUG-19
WG3141515-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	23-AUG-19
MET-D-CCMS-TB	Water							
Batch R4768494								
WG3140270-2 LCS								
Aluminum (Al)-Dissolved			102.7		%		80-120	23-AUG-19
Antimony (Sb)-Dissolved			104.2		%		80-120	23-AUG-19
Arsenic (As)-Dissolved			101.3		%		80-120	23-AUG-19
Barium (Ba)-Dissolved			104.8		%		80-120	23-AUG-19
Beryllium (Be)-Dissolved			98.2		%		80-120	23-AUG-19
Bismuth (Bi)-Dissolved			100.9		%		80-120	23-AUG-19
Boron (B)-Dissolved			92.1		%		80-120	23-AUG-19
Cadmium (Cd)-Dissolved			100.9		%		80-120	23-AUG-19
Calcium (Ca)-Dissolved			100.1		%		80-120	23-AUG-19
Cesium (Cs)-Dissolved			106.0		%		80-120	23-AUG-19
Chromium (Cr)-Dissolved			102.8		%		80-120	23-AUG-19
Cobalt (Co)-Dissolved			102.2		%		80-120	23-AUG-19
Copper (Cu)-Dissolved			101.8		%		80-120	23-AUG-19
Iron (Fe)-Dissolved			108.7		%		80-120	23-AUG-19
Lead (Pb)-Dissolved			100.6		%		80-120	23-AUG-19
Lithium (Li)-Dissolved			91.8		%		80-120	23-AUG-19
Magnesium (Mg)-Dissolved			103.8		%		80-120	23-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4768494								
WG3140270-2 LCS								
Manganese (Mn)-Dissolved			104.1		%		80-120	23-AUG-19
Molybdenum (Mo)-Dissolved			102.8		%		80-120	23-AUG-19
Nickel (Ni)-Dissolved			101.4		%		80-120	23-AUG-19
Phosphorus (P)-Dissolved			105.2		%		80-120	23-AUG-19
Potassium (K)-Dissolved			107.8		%		80-120	23-AUG-19
Rubidium (Rb)-Dissolved			101.2		%		80-120	23-AUG-19
Selenium (Se)-Dissolved			102.8		%		80-120	23-AUG-19
Silicon (Si)-Dissolved			102.9		%		80-120	23-AUG-19
Silver (Ag)-Dissolved			107.4		%		80-120	23-AUG-19
Sodium (Na)-Dissolved			110.2		%		80-120	23-AUG-19
Strontium (Sr)-Dissolved			100.0		%		80-120	23-AUG-19
Sulfur (S)-Dissolved			91.7		%		80-120	23-AUG-19
Tellurium (Te)-Dissolved			108.2		%		80-120	23-AUG-19
Thallium (Tl)-Dissolved			99.4		%		80-120	23-AUG-19
Thorium (Th)-Dissolved			97.6		%		80-120	23-AUG-19
Tin (Sn)-Dissolved			103.7		%		80-120	23-AUG-19
Titanium (Ti)-Dissolved			102.9		%		80-120	23-AUG-19
Tungsten (W)-Dissolved			101.4		%		80-120	23-AUG-19
Uranium (U)-Dissolved			100.2		%		80-120	23-AUG-19
Vanadium (V)-Dissolved			104.0		%		80-120	23-AUG-19
Zinc (Zn)-Dissolved			102.8		%		80-120	23-AUG-19
Zirconium (Zr)-Dissolved			105.9		%		80-120	23-AUG-19
WG3140270-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	23-AUG-19
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	23-AUG-19
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	23-AUG-19
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	23-AUG-19
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	23-AUG-19
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	23-AUG-19
Boron (B)-Dissolved			<0.010		mg/L		0.01	23-AUG-19
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	23-AUG-19
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	23-AUG-19
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	23-AUG-19
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	23-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4768494								
WG3140270-1 MB								
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	23-AUG-19
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	23-AUG-19
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	23-AUG-19
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	23-AUG-19
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	23-AUG-19
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	23-AUG-19
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	23-AUG-19
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	23-AUG-19
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	23-AUG-19
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	23-AUG-19
Potassium (K)-Dissolved			<0.050		mg/L		0.05	23-AUG-19
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	23-AUG-19
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	23-AUG-19
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	23-AUG-19
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	23-AUG-19
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	23-AUG-19
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	23-AUG-19
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	23-AUG-19
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	23-AUG-19
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	23-AUG-19
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	23-AUG-19
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	23-AUG-19
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	23-AUG-19
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	23-AUG-19
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	23-AUG-19
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	23-AUG-19
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	23-AUG-19
Zirconium (Zr)-Dissolved			<0.000060		mg/L		0.00006	23-AUG-19
MET-T-CCMS-TB	Water							
Batch R4769444								
WG3140262-2 LCS								
Aluminum (Al)-Total			104.2		%		80-120	26-AUG-19
Antimony (Sb)-Total			108.2		%		80-120	26-AUG-19
Arsenic (As)-Total			99.9		%		80-120	26-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4769444								
WG3140262-2 LCS								
Barium (Ba)-Total			101.1		%		80-120	26-AUG-19
Beryllium (Be)-Total			99.5		%		80-120	26-AUG-19
Bismuth (Bi)-Total			105.0		%		80-120	26-AUG-19
Boron (B)-Total			86.7		%		80-120	26-AUG-19
Cadmium (Cd)-Total			102.2		%		80-120	26-AUG-19
Calcium (Ca)-Total			99.8		%		80-120	26-AUG-19
Cesium (Cs)-Total			101.6		%		80-120	26-AUG-19
Chromium (Cr)-Total			106.2		%		80-120	26-AUG-19
Cobalt (Co)-Total			103.0		%		80-120	26-AUG-19
Copper (Cu)-Total			102.6		%		80-120	26-AUG-19
Iron (Fe)-Total			103.8		%		80-120	26-AUG-19
Lead (Pb)-Total			103.1		%		80-120	26-AUG-19
Lithium (Li)-Total			91.9		%		80-120	26-AUG-19
Magnesium (Mg)-Total			111.3		%		80-120	26-AUG-19
Manganese (Mn)-Total			102.2		%		80-120	26-AUG-19
Molybdenum (Mo)-Total			101.9		%		80-120	26-AUG-19
Nickel (Ni)-Total			102.4		%		80-120	26-AUG-19
Phosphorus (P)-Total			106.0		%		80-120	26-AUG-19
Potassium (K)-Total			109.6		%		80-120	26-AUG-19
Rubidium (Rb)-Total			105.0		%		80-120	26-AUG-19
Selenium (Se)-Total			100.4		%		80-120	26-AUG-19
Silicon (Si)-Total			105.1		%		80-120	26-AUG-19
Silver (Ag)-Total			105.2		%		80-120	26-AUG-19
Sodium (Na)-Total			106.1		%		80-120	26-AUG-19
Strontium (Sr)-Total			97.6		%		80-120	26-AUG-19
Sulfur (S)-Total			93.6		%		80-120	26-AUG-19
Tellurium (Te)-Total			100.3		%		80-120	26-AUG-19
Thallium (Tl)-Total			103.9		%		80-120	26-AUG-19
Thorium (Th)-Total			98.0		%		80-120	26-AUG-19
Tin (Sn)-Total			104.5		%		80-120	26-AUG-19
Titanium (Ti)-Total			99.3		%		80-120	26-AUG-19
Tungsten (W)-Total			103.2		%		80-120	26-AUG-19
Uranium (U)-Total			100.3		%		80-120	26-AUG-19
Vanadium (V)-Total			102.9		%		80-120	26-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4769444								
WG3140262-2 LCS								
Zinc (Zn)-Total			97.3		%		80-120	26-AUG-19
Zirconium (Zr)-Total			107.6		%		80-120	26-AUG-19
WG3140262-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	26-AUG-19
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	26-AUG-19
Arsenic (As)-Total			<0.00010		mg/L		0.0001	26-AUG-19
Barium (Ba)-Total			<0.00010		mg/L		0.0001	26-AUG-19
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	26-AUG-19
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	26-AUG-19
Boron (B)-Total			<0.010		mg/L		0.01	26-AUG-19
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	26-AUG-19
Calcium (Ca)-Total			<0.050		mg/L		0.05	26-AUG-19
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	26-AUG-19
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	26-AUG-19
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	26-AUG-19
Copper (Cu)-Total			<0.00050		mg/L		0.0005	26-AUG-19
Iron (Fe)-Total			<0.010		mg/L		0.01	26-AUG-19
Lead (Pb)-Total			<0.000050		mg/L		0.00005	26-AUG-19
Lithium (Li)-Total			<0.0010		mg/L		0.001	26-AUG-19
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	26-AUG-19
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	26-AUG-19
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	26-AUG-19
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	26-AUG-19
Phosphorus (P)-Total			<0.050		mg/L		0.05	26-AUG-19
Potassium (K)-Total			<0.050		mg/L		0.05	26-AUG-19
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	26-AUG-19
Selenium (Se)-Total			<0.000050		mg/L		0.00005	26-AUG-19
Silicon (Si)-Total			<0.10		mg/L		0.1	26-AUG-19
Silver (Ag)-Total			<0.000010		mg/L		0.00001	26-AUG-19
Sodium (Na)-Total			<0.050		mg/L		0.05	26-AUG-19
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	26-AUG-19
Sulfur (S)-Total			<0.50		mg/L		0.5	26-AUG-19
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	26-AUG-19
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	26-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4769444								
WG3140262-1 MB								
Thorium (Th)-Total			<0.00010		mg/L		0.0001	26-AUG-19
Tin (Sn)-Total			<0.00010		mg/L		0.0001	26-AUG-19
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	26-AUG-19
Tungsten (W)-Total			<0.00010		mg/L		0.0001	26-AUG-19
Uranium (U)-Total			<0.000010		mg/L		0.00001	26-AUG-19
Vanadium (V)-Total			<0.00050		mg/L		0.0005	26-AUG-19
Zinc (Zn)-Total			<0.0030		mg/L		0.003	26-AUG-19
Zirconium (Zr)-Total			<0.000060		mg/L		0.00006	26-AUG-19
WG3140262-4 MS		**L2332873-1**						
Aluminum (Al)-Total			103.1		%		70-130	26-AUG-19
Antimony (Sb)-Total			108.3		%		70-130	26-AUG-19
Arsenic (As)-Total			99.9		%		70-130	26-AUG-19
Barium (Ba)-Total			N/A	MS-B	%		-	26-AUG-19
Beryllium (Be)-Total			101.4		%		70-130	26-AUG-19
Bismuth (Bi)-Total			95.4		%		70-130	26-AUG-19
Boron (B)-Total			94.1		%		70-130	26-AUG-19
Cadmium (Cd)-Total			104.5		%		70-120	26-AUG-19
Calcium (Ca)-Total			N/A	MS-B	%		-	26-AUG-19
Cesium (Cs)-Total			102.9		%		70-130	26-AUG-19
Chromium (Cr)-Total			103.3		%		70-130	26-AUG-19
Cobalt (Co)-Total			100.9		%		70-130	26-AUG-19
Copper (Cu)-Total			N/A	MS-B	%		-	26-AUG-19
Iron (Fe)-Total			95.8		%		70-130	26-AUG-19
Lead (Pb)-Total			96.7		%		70-130	26-AUG-19
Lithium (Li)-Total			103.9		%		70-130	26-AUG-19
Magnesium (Mg)-Total			N/A	MS-B	%		-	26-AUG-19
Manganese (Mn)-Total			N/A	MS-B	%		-	26-AUG-19
Molybdenum (Mo)-Total			101.5		%		70-130	26-AUG-19
Nickel (Ni)-Total			97.6		%		70-130	26-AUG-19
Phosphorus (P)-Total			104.4		%		70-130	26-AUG-19
Potassium (K)-Total			98.0		%		70-130	26-AUG-19
Rubidium (Rb)-Total			100.3		%		70-130	26-AUG-19
Selenium (Se)-Total			101.3		%		70-130	26-AUG-19
Silicon (Si)-Total			90.4		%		70-130	26-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4769444								
WG3140262-4 MS		**L2332873-1**						
Silver (Ag)-Total			104.9		%		70-130	26-AUG-19
Sodium (Na)-Total			N/A	MS-B	%		-	26-AUG-19
Strontium (Sr)-Total			N/A	MS-B	%		-	26-AUG-19
Sulfur (S)-Total			104.3		%		70-130	26-AUG-19
Tellurium (Te)-Total			99.6		%		70-130	26-AUG-19
Thallium (Tl)-Total			96.1		%		70-130	26-AUG-19
Thorium (Th)-Total			94.7		%		70-130	26-AUG-19
Tin (Sn)-Total			105.6		%		70-130	26-AUG-19
Titanium (Ti)-Total			100.6		%		70-130	26-AUG-19
Tungsten (W)-Total			103.7		%		70-130	26-AUG-19
Uranium (U)-Total			96.9		%		70-130	26-AUG-19
Vanadium (V)-Total			101.7		%		70-130	26-AUG-19
Zinc (Zn)-Total			91.5		%		70-130	26-AUG-19
Zirconium (Zr)-Total			107.0		%		70-130	26-AUG-19
NH3-COL-TB	Water							
Batch R4765548								
WG3141339-3 DUP		**L2332873-1**						
Ammonia, Total (as N)		0.255	0.254		mg/L	0.5	20	23-AUG-19
WG3141339-2 LCS								
Ammonia, Total (as N)			102.9		%		85-115	23-AUG-19
WG3141339-1 MB								
Ammonia, Total (as N)			<0.020		mg/L		0.02	23-AUG-19
WG3141339-4 MS		**L2332873-2**						
Ammonia, Total (as N)			87.9		%		75-125	23-AUG-19
NO2-IC-N-TB	Water							
Batch R4767949								
WG3141515-2 LCS								
Nitrite (as N)			100.0		%		90-110	23-AUG-19
WG3141515-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	23-AUG-19
NO3-IC-N-TB	Water							
Batch R4767949								
WG3141515-2 LCS								
Nitrate (as N)			100.3		%		90-110	23-AUG-19
WG3141515-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-N-TB	Water							
Batch R4767949								
WG3141515-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	23-AUG-19
P-T-COL-TB	Water							
Batch R4768521								
WG3140345-8 DUP		**L2332873-1**						
Phosphorus (P)-Total		0.0129	0.0117		mg/L	9.5	20	23-AUG-19
WG3140345-6 LCS								
Phosphorus (P)-Total			99.6		%		80-120	23-AUG-19
WG3140345-5 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	23-AUG-19
WG3140345-7 MS		**L2332873-2**						
Phosphorus (P)-Total			101.1		%		70-130	23-AUG-19
PH-PCT-VA	Water							
Batch R4774469								
WG3143870-2 CRM		**VA-PH7-BUF**						
pH			6.99		pH		6.9-7.1	27-AUG-19
SIO2-COL-WP	Water							
Batch R4774389								
WG3146418-3 DUP		**L2332873-1**						
Silica, Reactive (as SiO2)		14.0	13.6		mg/L	2.5	20	27-AUG-19
WG3146418-2 LCS								
Silica, Reactive (as SiO2)			101.9		%		85-115	27-AUG-19
WG3146418-1 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	27-AUG-19
WG3146418-4 MS		**L2332873-1**						
Silica, Reactive (as SiO2)			N/A	MS-B	%		-	27-AUG-19
SO4-IC-N-TB	Water							
Batch R4767949								
WG3141515-2 LCS								
Sulfate (SO4)			104.9		%		90-110	23-AUG-19
WG3141515-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	23-AUG-19
TDS-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-TB	Water							
Batch R4767934								
WG3141520-2 LCS								
Total Dissolved Solids			93.5		%		85-115	23-AUG-19
WG3141520-1 MB								
Total Dissolved Solids			<10		mg/L		10	23-AUG-19
Batch R4768033								
WG3141802-2 LCS								
Total Dissolved Solids			95.7		%		85-115	23-AUG-19
WG3141802-1 MB								
Total Dissolved Solids			<10		mg/L		10	23-AUG-19
Batch R4768037								
WG3142085-3 DUP		**L2332873-4**						
Total Dissolved Solids		327	314		mg/L	4.1	20	23-AUG-19
WG3142085-2 LCS								
Total Dissolved Solids			98.8		%		85-115	23-AUG-19
WG3142085-1 MB								
Total Dissolved Solids			<10		mg/L		10	23-AUG-19
TSS-TB	Water							
Batch R4765527								
WG3140570-2 LCS								
Total Suspended Solids			100.1		%		85-115	22-AUG-19
WG3140570-1 MB								
Total Suspended Solids			<2.0		mg/L		2	22-AUG-19
Batch R4765951								
WG3140645-2 LCS								
Total Suspended Solids			97.3		%		85-115	22-AUG-19
WG3140645-1 MB								
Total Suspended Solids			<2.0		mg/L		2	22-AUG-19

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH by Meter (Automated)							
	1	18-AUG-19 15:30	27-AUG-19 19:23	0.25	220	hours	EHTR-FM
	2	19-AUG-19 10:05	27-AUG-19 19:23	0.25	201	hours	EHTR-FM
	3	19-AUG-19 13:30	27-AUG-19 19:23	0.25	198	hours	EHTR-FM
	4	19-AUG-19 18:00	27-AUG-19 18:27	0.25	192	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2332873 were received on 21-AUG-19 10:35.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2332873-COFC

TS / CP

COC Number: 17 -

Page of

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	1800-925 West Georgia Street
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☑ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	dmchaina@firstmininggold.com
Email 2	shila@firstmininggold.com
Email 3	glenn_ffc@ns.aliantzinc.ca

Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☑ MAIL ☐ FAX
Email 1 or Fax	
Email 2	

Project Information	
ALS Account # / Quote #:	20864 / Q64154
Job #:	
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2332873 | **ALS Contact:** | **Sampler:**

Select Service Level: W - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

NUMBER OF CONTAINERS

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity	Total Metals	Dissolved Metals	Reactive Silica	F, Hardness, NO2, NO3, pH, SO4	Total Phosphorous, TSS	TDS	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-BL98-40m	18-Aug-19	15:30	Ground Water	R	R	R	R	R	R	R		
	3134-BL98-238m	19-Aug-19	10:05	Ground Water	R	R	R	R	R	R	R		
	3134-BL24-49m	19-Aug-19	13:30	Ground Water	R	R	R	R	R	R	R		
	3134-BL24-238m	19-Aug-19	18:00	Ground Water	R	R	R	R	R	R	R		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption/ use? ☐ YES ☐ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐

Ice Packs ☐ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
11.3							

SHIPMENT RELEASE (client use)		
Released by:	08/20/19	Time:

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by: CY	Date: Aug 21/19	Time: 1035

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2332873-COFC

COC Number: 17 -

Page 1 of 1

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	1800-925 West Georgia Street
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ ☐ NO
	Copy of Invoice with Report ☐ ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☑ ☑ EXCEL ☐ EDD (DIGITAL)

Quality Control (QC) Report with Report ☑ ☐ NO

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: dmchaina@firstmininggold.com

Email 2: shila@firstmininggold.com

Email 3: glenn_ffc@ns.aliantzinc.ca

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☑ MAIL ☐ FAX

Email 1 or Fax:

Email 2:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #:	20864 / Q64154
Job #:	
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2332873

ALS Contact: | Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

NUMBER OF CONTAINERS

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Routine Chemistry	Total Metals	Dissolved Metals	Reactive Silica	Nutrients	TSS	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-BL98-40m	18-Aug-19	15:30	Ground Water	R	R	R	R	R	R		
	3134-BL98-238m	19-Aug-19	10:05	Ground Water	R	R	R	R	R	R		
	3134-BL24-49m	19-Aug-19	13:30	Ground Water	R	R	R	R	R	R		
	3134-BL24-238m	19-Aug-19	18:00	Ground Water	R	R	R	R	R	R		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System?

☐ ☒ NO

Are samples for human consumption/ use?

☐ ☒ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
11.3							

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Glenn Burns	Aug 20/19	

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
SD	Aug 21/19	10:35

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

GOLD CANYON RESOURCES INC.
ATTN: David Mchaina
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 23-AUG-19
Report Date: 07-SEP-19 08:37 (MT)
Version: FINAL

Client Phone: 705-929-5245

Certificate of Analysis

Lab Work Order #: L2334537
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Amanda Loesch
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-1 3134-BL111-60M Sampled By: Client on 20-AUG-19 @ 11:00 Matrix: Ground Water							
Physical Tests							
Conductivity	394		2.0	uS/cm		30-AUG-19	R4778606
Hardness (as CaCO3)	207		0.50	mg/L		28-AUG-19	
pH	8.45		0.10	pH		30-AUG-19	R4778606
Total Suspended Solids	21.0		3.0	mg/L		23-AUG-19	R4767831
Total Dissolved Solids	236		20	mg/L		24-AUG-19	R4768226
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		01-SEP-19	R4782017
Alkalinity, Total (as CaCO3)	230		1.0	mg/L		30-AUG-19	R4778606
Ammonia, Total (as N)	0.257		0.020	mg/L		27-AUG-19	R4769416
Bromide (Br)	<0.10		0.10	mg/L		23-AUG-19	R4767949
Chloride (Cl)	0.57		0.10	mg/L		23-AUG-19	R4767949
Fluoride (F)	0.205		0.020	mg/L		23-AUG-19	R4767949
Nitrate (as N)	0.041		0.020	mg/L		23-AUG-19	R4767949
Nitrite (as N)	<0.010		0.010	mg/L		23-AUG-19	R4767949
Phosphorus (P)-Total	0.0800		0.0030	mg/L	26-AUG-19	26-AUG-19	R4769801
Silica, Reactive (as SiO2)	11.8		1.0	mg/L		27-AUG-19	R4774389
Sulfate (SO4)	24.8		0.30	mg/L		23-AUG-19	R4767949
Total Metals							
Aluminum (Al)-Total	0.223		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Antimony (Sb)-Total	0.00051		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Arsenic (As)-Total	0.00353		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Barium (Ba)-Total	0.228		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Beryllium (Be)-Total	0.00123		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Boron (B)-Total	0.017		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108
Cadmium (Cd)-Total	0.0000782		0.0000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Calcium (Ca)-Total	58.5		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Cesium (Cs)-Total	0.000415		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Chromium (Cr)-Total	0.00186		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Cobalt (Co)-Total	0.00330		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Copper (Cu)-Total	0.0644		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Iron (Fe)-Total	3.28		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108
Lead (Pb)-Total	0.0137		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Lithium (Li)-Total	0.0028		0.0010	mg/L	24-AUG-19	27-AUG-19	R4771108
Magnesium (Mg)-Total	12.4		0.0050	mg/L	24-AUG-19	27-AUG-19	R4771108
Manganese (Mn)-Total	0.528		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Molybdenum (Mo)-Total	0.000716		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Nickel (Ni)-Total	0.00240		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Phosphorus (P)-Total	0.092		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Potassium (K)-Total	2.36		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Rubidium (Rb)-Total	0.00380		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-1 3134-BL111-60M Sampled By: Client on 20-AUG-19 @ 11:00 Matrix: Ground Water							
Total Metals							
Selenium (Se)-Total	0.000121		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Silicon (Si)-Total	5.92		0.10	mg/L	24-AUG-19	27-AUG-19	R4771108
Silver (Ag)-Total	0.000168		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Sodium (Na)-Total	4.29		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Strontium (Sr)-Total	1.40		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Sulfur (S)-Total	9.18		0.50	mg/L	24-AUG-19	27-AUG-19	R4771108
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Thallium (Tl)-Total	0.000063		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Thorium (Th)-Total	<0.00010		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Tin (Sn)-Total	<0.00010		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Titanium (Ti)-Total	0.0121		0.00030	mg/L	24-AUG-19	27-AUG-19	R4771108
Tungsten (W)-Total	0.00642		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Uranium (U)-Total	0.000481		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Vanadium (V)-Total	0.00092		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Zinc (Zn)-Total	0.181		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Zirconium (Zr)-Total	0.00195		0.000060	mg/L	24-AUG-19	27-AUG-19	R4771108
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					27-AUG-19	R4770528
Aluminum (Al)-Dissolved	0.0025		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Antimony (Sb)-Dissolved	0.00012		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Arsenic (As)-Dissolved	0.00028		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Barium (Ba)-Dissolved	0.206		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Beryllium (Be)-Dissolved	0.00039		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Boron (B)-Dissolved	0.025		0.010	mg/L	27-AUG-19	27-AUG-19	R4770709
Cadmium (Cd)-Dissolved	0.0000300		0.0000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Calcium (Ca)-Dissolved	63.0		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Cesium (Cs)-Dissolved	0.000265		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Chromium (Cr)-Dissolved	0.00052		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Cobalt (Co)-Dissolved	0.00055		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Copper (Cu)-Dissolved	0.0154		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Iron (Fe)-Dissolved	0.058		0.010	mg/L	27-AUG-19	27-AUG-19	R4770709
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Lithium (Li)-Dissolved	0.0029		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Magnesium (Mg)-Dissolved	12.1		0.0050	mg/L	27-AUG-19	27-AUG-19	R4770709
Manganese (Mn)-Dissolved	0.114		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Molybdenum (Mo)-Dissolved	0.000581		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Nickel (Ni)-Dissolved	0.00095		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Potassium (K)-Dissolved	2.25		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Rubidium (Rb)-Dissolved	0.00280		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-1 3134-BL111-60M Sampled By: Client on 20-AUG-19 @ 11:00 Matrix: Ground Water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000068		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silicon (Si)-Dissolved	5.45		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Sodium (Na)-Dissolved	4.23		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Strontium (Sr)-Dissolved	1.47		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Sulfur (S)-Dissolved	9.30		0.50	mg/L	27-AUG-19	27-AUG-19	R4770709
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Thallium (Tl)-Dissolved	0.000013		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	27-AUG-19	27-AUG-19	R4770709
Tungsten (W)-Dissolved	0.00311		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Uranium (U)-Dissolved	0.000388		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Zinc (Zn)-Dissolved	0.160		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Zirconium (Zr)-Dissolved	0.000592		0.000060	mg/L	27-AUG-19	27-AUG-19	R4770709
L2334537-2 3134-BL111-138M Sampled By: Client on 20-AUG-19 @ 13:40 Matrix: Ground Water							
Physical Tests							
Conductivity	400		2.0	uS/cm		30-AUG-19	R4778606
Hardness (as CaCO3)	211		0.50	mg/L		30-AUG-19	
pH	8.46		0.10	pH		30-AUG-19	R4778606
Total Suspended Solids	45.4		3.0	mg/L		24-AUG-19	R4768186
Total Dissolved Solids	246		20	mg/L		24-AUG-19	R4768223
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		01-SEP-19	R4782017
Alkalinity, Total (as CaCO3)	227		1.0	mg/L		30-AUG-19	R4778606
Ammonia, Total (as N)	0.233		0.020	mg/L		27-AUG-19	R4769416
Bromide (Br)	<0.10		0.10	mg/L		23-AUG-19	R4767949
Chloride (Cl)	0.55		0.10	mg/L		23-AUG-19	R4767949
Fluoride (F)	0.265		0.020	mg/L		23-AUG-19	R4767949
Nitrate (as N)	0.059		0.020	mg/L		23-AUG-19	R4767949
Nitrite (as N)	<0.010		0.010	mg/L		23-AUG-19	R4767949
Phosphorus (P)-Total	0.124		0.030	mg/L	26-AUG-19	26-AUG-19	R4769801
Silica, Reactive (as SiO2)	11.9		1.0	mg/L		27-AUG-19	R4774389
Sulfate (SO4)	24.7		0.30	mg/L		23-AUG-19	R4767949
Total Metals							
Aluminum (Al)-Total	0.423		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Antimony (Sb)-Total	0.00066		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Arsenic (As)-Total	0.00619		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Barium (Ba)-Total	0.263		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-2 3134-BL111-138M Sampled By: Client on 20-AUG-19 @ 13:40 Matrix: Ground Water							
Total Metals							
Beryllium (Be)-Total	0.00186		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Boron (B)-Total	0.018		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108
Cadmium (Cd)-Total	0.000131		0.0000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Calcium (Ca)-Total	62.0		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Cesium (Cs)-Total	0.000581		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Chromium (Cr)-Total	0.00248		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Cobalt (Co)-Total	0.00779		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Copper (Cu)-Total	0.0967		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Iron (Fe)-Total	5.72		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108
Lead (Pb)-Total	0.0217		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Lithium (Li)-Total	0.0029		0.0010	mg/L	24-AUG-19	27-AUG-19	R4771108
Magnesium (Mg)-Total	12.8		0.0050	mg/L	24-AUG-19	27-AUG-19	R4771108
Manganese (Mn)-Total	0.885		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Molybdenum (Mo)-Total	0.000763		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Nickel (Ni)-Total	0.00516		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Phosphorus (P)-Total	0.141		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Potassium (K)-Total	2.55		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Rubidium (Rb)-Total	0.00487		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Selenium (Se)-Total	0.000103		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Silicon (Si)-Total	6.47		0.10	mg/L	24-AUG-19	27-AUG-19	R4771108
Silver (Ag)-Total	0.000203		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Sodium (Na)-Total	4.37		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Strontium (Sr)-Total	1.48		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Sulfur (S)-Total	9.34		0.50	mg/L	24-AUG-19	27-AUG-19	R4771108
Tellurium (Te)-Total	0.00022		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Thallium (Tl)-Total	0.000120		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Thorium (Th)-Total	<0.00010		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Tin (Sn)-Total	<0.00010		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Titanium (Ti)-Total	0.0242		0.00030	mg/L	24-AUG-19	27-AUG-19	R4771108
Tungsten (W)-Total	0.00822		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Uranium (U)-Total	0.000535		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Vanadium (V)-Total	0.00220		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Zinc (Zn)-Total	0.150		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Zirconium (Zr)-Total	0.00378		0.000060	mg/L	24-AUG-19	27-AUG-19	R4771108
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					27-AUG-19	R4770528
Aluminum (Al)-Dissolved	0.0028		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Antimony (Sb)-Dissolved	0.00013		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Arsenic (As)-Dissolved	0.00039		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Barium (Ba)-Dissolved	0.206		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-2 3134-BL111-138M Sampled By: Client on 20-AUG-19 @ 13:40 Matrix: Ground Water							
Dissolved Metals							
Beryllium (Be)-Dissolved	0.00048		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Boron (B)-Dissolved	0.018		0.010	mg/L	27-AUG-19	29-AUG-19	R4778007
Cadmium (Cd)-Dissolved	0.0000395		0.0000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Calcium (Ca)-Dissolved	64.1		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Cesium (Cs)-Dissolved	0.000320		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Cobalt (Co)-Dissolved	0.00043		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Copper (Cu)-Dissolved	0.0184		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Iron (Fe)-Dissolved	0.068		0.010	mg/L	27-AUG-19	27-AUG-19	R4770709
Lead (Pb)-Dissolved	0.000056		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Lithium (Li)-Dissolved	0.0029		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Magnesium (Mg)-Dissolved	12.4		0.0050	mg/L	27-AUG-19	27-AUG-19	R4770709
Manganese (Mn)-Dissolved	0.0962		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Molybdenum (Mo)-Dissolved	0.000620		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Nickel (Ni)-Dissolved	0.00103		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Potassium (K)-Dissolved	2.32		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Rubidium (Rb)-Dissolved	0.00313		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Selenium (Se)-Dissolved	0.000062		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silicon (Si)-Dissolved	5.56		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Sodium (Na)-Dissolved	4.19		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Strontium (Sr)-Dissolved	1.48		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Sulfur (S)-Dissolved	9.31		0.50	mg/L	27-AUG-19	27-AUG-19	R4770709
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Thallium (Tl)-Dissolved	0.000024		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	27-AUG-19	27-AUG-19	R4770709
Tungsten (W)-Dissolved	0.00224		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Uranium (U)-Dissolved	0.000398		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Zinc (Zn)-Dissolved	0.0983		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Zirconium (Zr)-Dissolved	0.000565		0.000060	mg/L	27-AUG-19	27-AUG-19	R4770709
L2334537-3 3134-BL111-238M Sampled By: Client on 20-AUG-19 @ 16:53 Matrix: Ground Water							
Physical Tests							
Conductivity	399		2.0	uS/cm		30-AUG-19	R4778606
Hardness (as CaCO3)	210		0.50	mg/L		28-AUG-19	
pH	8.45		0.10	pH		30-AUG-19	R4778606

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-3 3134-BL111-238M Sampled By: Client on 20-AUG-19 @ 16:53 Matrix: Ground Water							
Physical Tests							
Total Suspended Solids	47.8		3.0	mg/L		24-AUG-19	R4768186
Total Dissolved Solids	239		20	mg/L		24-AUG-19	R4768223
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		01-SEP-19	R4782017
Alkalinity, Total (as CaCO3)	216		1.0	mg/L		30-AUG-19	R4778606
Ammonia, Total (as N)	0.231		0.020	mg/L		27-AUG-19	R4769416
Bromide (Br)	<0.10		0.10	mg/L		23-AUG-19	R4767949
Chloride (Cl)	0.38		0.10	mg/L		23-AUG-19	R4767949
Fluoride (F)	0.215		0.020	mg/L		23-AUG-19	R4767949
Nitrate (as N)	0.062		0.020	mg/L		23-AUG-19	R4767949
Nitrite (as N)	<0.010		0.010	mg/L		23-AUG-19	R4767949
Phosphorus (P)-Total	0.153		0.030	mg/L	26-AUG-19	26-AUG-19	R4769801
Silica, Reactive (as SiO2)	12.1		1.0	mg/L		27-AUG-19	R4774389
Sulfate (SO4)	25.4		0.30	mg/L		23-AUG-19	R4767949
Total Metals							
Aluminum (Al)-Total	0.703		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Antimony (Sb)-Total	0.00100		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Arsenic (As)-Total	0.00845		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Barium (Ba)-Total	0.274		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Beryllium (Be)-Total	0.00303		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Boron (B)-Total	0.018		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108
Cadmium (Cd)-Total	0.000168		0.0000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Calcium (Ca)-Total	63.3		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Cesium (Cs)-Total	0.000921		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Chromium (Cr)-Total	0.00349		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Cobalt (Co)-Total	0.0144		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Copper (Cu)-Total	0.168		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Iron (Fe)-Total	7.20		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108
Lead (Pb)-Total	0.0418		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Lithium (Li)-Total	0.0034		0.0010	mg/L	24-AUG-19	27-AUG-19	R4771108
Magnesium (Mg)-Total	13.2		0.0050	mg/L	24-AUG-19	27-AUG-19	R4771108
Manganese (Mn)-Total	1.17		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Molybdenum (Mo)-Total	0.00100		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Nickel (Ni)-Total	0.00796		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Phosphorus (P)-Total	0.151		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Potassium (K)-Total	2.80		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Rubidium (Rb)-Total	0.00616		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Selenium (Se)-Total	0.000124		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Silicon (Si)-Total	7.21		0.10	mg/L	24-AUG-19	27-AUG-19	R4771108
Silver (Ag)-Total	0.000309		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-3 3134-BL111-238M Sampled By: Client on 20-AUG-19 @ 16:53 Matrix: Ground Water							
Total Metals							
Sodium (Na)-Total	4.51		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Strontium (Sr)-Total	1.52		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Sulfur (S)-Total	9.69		0.50	mg/L	24-AUG-19	27-AUG-19	R4771108
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Thallium (Tl)-Total	0.000176		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Thorium (Th)-Total	0.00014		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Tin (Sn)-Total	0.00017		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Titanium (Ti)-Total	0.0419		0.00030	mg/L	24-AUG-19	27-AUG-19	R4771108
Tungsten (W)-Total	0.0128		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Uranium (U)-Total	0.000597		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Vanadium (V)-Total	0.00337		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Zinc (Zn)-Total	0.190		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Zirconium (Zr)-Total	0.00498		0.000060	mg/L	24-AUG-19	27-AUG-19	R4771108
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					27-AUG-19	R4770528
Aluminum (Al)-Dissolved	0.0039		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Antimony (Sb)-Dissolved	0.00014		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Arsenic (As)-Dissolved	0.00040		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Barium (Ba)-Dissolved	0.203		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Beryllium (Be)-Dissolved	0.00064		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Boron (B)-Dissolved	0.019		0.010	mg/L	27-AUG-19	27-AUG-19	R4770709
Cadmium (Cd)-Dissolved	0.0000421		0.0000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Calcium (Ca)-Dissolved	64.0		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Cesium (Cs)-Dissolved	0.000376		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Cobalt (Co)-Dissolved	0.00038		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Copper (Cu)-Dissolved	0.0269		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Iron (Fe)-Dissolved	0.068		0.010	mg/L	27-AUG-19	27-AUG-19	R4770709
Lead (Pb)-Dissolved	0.000059		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Lithium (Li)-Dissolved	0.0028		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Magnesium (Mg)-Dissolved	12.1		0.0050	mg/L	27-AUG-19	27-AUG-19	R4770709
Manganese (Mn)-Dissolved	0.0868		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Molybdenum (Mo)-Dissolved	0.000782		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Nickel (Ni)-Dissolved	0.00148		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Potassium (K)-Dissolved	2.35		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Rubidium (Rb)-Dissolved	0.00330		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Selenium (Se)-Dissolved	0.000056		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silicon (Si)-Dissolved	5.50		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-3 3134-BL111-238M Sampled By: Client on 20-AUG-19 @ 16:53 Matrix: Ground Water							
Dissolved Metals							
Sodium (Na)-Dissolved	4.13		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Strontium (Sr)-Dissolved	1.51		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Sulfur (S)-Dissolved	9.25		0.50	mg/L	27-AUG-19	27-AUG-19	R4770709
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Thallium (Tl)-Dissolved	0.000029		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	27-AUG-19	27-AUG-19	R4770709
Tungsten (W)-Dissolved	0.00184		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Uranium (U)-Dissolved	0.000409		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Zinc (Zn)-Dissolved	0.113		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Zirconium (Zr)-Dissolved	0.000522		0.000060	mg/L	27-AUG-19	27-AUG-19	R4770709
L2334537-4 3134-BL111-338M Sampled By: Client on 21-AUG-19 @ 10:43 Matrix: Ground Water							
Physical Tests							
Conductivity	460		2.0	uS/cm		30-AUG-19	R4778606
Hardness (as CaCO3)	233		0.50	mg/L		28-AUG-19	
pH	8.50		0.10	pH		30-AUG-19	R4778606
Total Suspended Solids	18.0		2.0	mg/L		25-AUG-19	R4768401
Total Dissolved Solids	279		20	mg/L		24-AUG-19	R4769020
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		01-SEP-19	R4782017
Alkalinity, Total (as CaCO3)	251		1.0	mg/L		30-AUG-19	R4778606
Ammonia, Total (as N)	0.346		0.020	mg/L		27-AUG-19	R4769416
Bromide (Br)	0.14		0.10	mg/L		23-AUG-19	R4767949
Chloride (Cl)	6.17		0.10	mg/L		23-AUG-19	R4767949
Fluoride (F)	0.237		0.020	mg/L		23-AUG-19	R4767949
Nitrate (as N)	<0.020		0.020	mg/L		23-AUG-19	R4767949
Nitrite (as N)	<0.010		0.010	mg/L		23-AUG-19	R4767949
Phosphorus (P)-Total	0.0534		0.0030	mg/L	26-AUG-19	26-AUG-19	R4769801
Silica, Reactive (as SiO2)	11.7		1.0	mg/L		27-AUG-19	R4774389
Sulfate (SO4)	28.6		0.30	mg/L		23-AUG-19	R4767949
Total Metals							
Aluminum (Al)-Total	0.200		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Antimony (Sb)-Total	0.00060		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Arsenic (As)-Total	0.00404		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Barium (Ba)-Total	0.222		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Beryllium (Be)-Total	0.00133		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Boron (B)-Total	0.022		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-4 3134-BL111-338M Sampled By: Client on 21-AUG-19 @ 10:43 Matrix: Ground Water							
Total Metals							
Cadmium (Cd)-Total	0.000107		0.0000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Calcium (Ca)-Total	70.6		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Cesium (Cs)-Total	0.000655		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Chromium (Cr)-Total	0.00190		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Cobalt (Co)-Total	0.00867		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Copper (Cu)-Total	0.0867		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Iron (Fe)-Total	2.35		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108
Lead (Pb)-Total	0.00961		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Lithium (Li)-Total	0.0031		0.0010	mg/L	24-AUG-19	27-AUG-19	R4771108
Magnesium (Mg)-Total	12.5		0.0050	mg/L	24-AUG-19	27-AUG-19	R4771108
Manganese (Mn)-Total	2.02		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Molybdenum (Mo)-Total	0.00343		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Nickel (Ni)-Total	0.00568		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Phosphorus (P)-Total	0.059		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Potassium (K)-Total	2.74		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Rubidium (Rb)-Total	0.00588		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Selenium (Se)-Total	0.000053		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Silicon (Si)-Total	5.88		0.10	mg/L	24-AUG-19	27-AUG-19	R4771108
Silver (Ag)-Total	0.000069		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Sodium (Na)-Total	10.7		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Strontium (Sr)-Total	2.62		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Sulfur (S)-Total	10.9		0.50	mg/L	24-AUG-19	27-AUG-19	R4771108
Tellurium (Te)-Total	0.00025		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Thallium (Tl)-Total	0.000090		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Thorium (Th)-Total	<0.00010		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Tin (Sn)-Total	<0.00010		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Titanium (Ti)-Total	0.0100		0.00030	mg/L	24-AUG-19	27-AUG-19	R4771108
Tungsten (W)-Total	0.00495		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Uranium (U)-Total	0.000723		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Vanadium (V)-Total	0.00120		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Zinc (Zn)-Total	0.176		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Zirconium (Zr)-Total	0.00278		0.000060	mg/L	24-AUG-19	27-AUG-19	R4771108
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					27-AUG-19	R4770528
Aluminum (Al)-Dissolved	0.0036		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Antimony (Sb)-Dissolved	0.00037		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Arsenic (As)-Dissolved	0.00106		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Barium (Ba)-Dissolved	0.198		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Beryllium (Be)-Dissolved	0.00056		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Boron (B)-Dissolved	0.023		0.010	mg/L	27-AUG-19	27-AUG-19	R4770709

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-4 3134-BL111-338M Sampled By: Client on 21-AUG-19 @ 10:43 Matrix: Ground Water							
Dissolved Metals							
Cadmium (Cd)-Dissolved	0.0000702		0.0000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Calcium (Ca)-Dissolved	73.3		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Cesium (Cs)-Dissolved	0.000503		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Cobalt (Co)-Dissolved	0.00547		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Copper (Cu)-Dissolved	0.0276		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Iron (Fe)-Dissolved	0.016		0.010	mg/L	27-AUG-19	27-AUG-19	R4770709
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Lithium (Li)-Dissolved	0.0029		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Magnesium (Mg)-Dissolved	12.0		0.0050	mg/L	27-AUG-19	27-AUG-19	R4770709
Manganese (Mn)-Dissolved	1.71		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Molybdenum (Mo)-Dissolved	0.00389		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Nickel (Ni)-Dissolved	0.00417		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Potassium (K)-Dissolved	2.53		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Rubidium (Rb)-Dissolved	0.00520		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silicon (Si)-Dissolved	5.41		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Sodium (Na)-Dissolved	10.3		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Strontium (Sr)-Dissolved	2.62		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Sulfur (S)-Dissolved	10.5		0.50	mg/L	27-AUG-19	27-AUG-19	R4770709
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Thallium (Tl)-Dissolved	0.000049		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	27-AUG-19	27-AUG-19	R4770709
Tungsten (W)-Dissolved	0.00340		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Uranium (U)-Dissolved	0.000649		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Zinc (Zn)-Dissolved	0.144		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Zirconium (Zr)-Dissolved	0.000816		0.000060	mg/L	27-AUG-19	27-AUG-19	R4770709
L2334537-5 3134-BL49-60M Sampled By: Client on 21-AUG-19 @ 13:11 Matrix: Ground Water							
Physical Tests							
Conductivity	467		2.0	uS/cm		30-AUG-19	R4778606
Hardness (as CaCO3)	258		0.50	mg/L		28-AUG-19	
pH	8.45		0.10	pH		30-AUG-19	R4778606
Total Suspended Solids	50.9		2.0	mg/L		25-AUG-19	R4768401
Total Dissolved Solids	303		20	mg/L		24-AUG-19	R4769020
Anions and Nutrients							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-5 3134-BL49-60M Sampled By: Client on 21-AUG-19 @ 13:11 Matrix: Ground Water							
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		01-SEP-19	R4782017
Alkalinity, Total (as CaCO3)	264		1.0	mg/L		30-AUG-19	R4778606
Ammonia, Total (as N)	0.522		0.020	mg/L		27-AUG-19	R4769416
Bromide (Br)	<0.10		0.10	mg/L		23-AUG-19	R4767949
Chloride (Cl)	2.36		0.10	mg/L		23-AUG-19	R4767949
Fluoride (F)	0.179		0.020	mg/L		23-AUG-19	R4767949
Nitrate (as N)	<0.020		0.020	mg/L		23-AUG-19	R4767949
Nitrite (as N)	<0.010		0.010	mg/L		23-AUG-19	R4767949
Phosphorus (P)-Total	0.0732		0.0030	mg/L	26-AUG-19	26-AUG-19	R4769801
Silica, Reactive (as SiO2)	14.7		1.0	mg/L		27-AUG-19	R4774389
Sulfate (SO4)	27.7		0.30	mg/L		23-AUG-19	R4767949
Total Metals							
Aluminum (Al)-Total	0.576		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Antimony (Sb)-Total	0.00336		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Arsenic (As)-Total	0.0267		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Barium (Ba)-Total	0.284		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Beryllium (Be)-Total	0.00161		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Boron (B)-Total	0.014		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108
Cadmium (Cd)-Total	0.000317		0.0000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Calcium (Ca)-Total	78.0		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Cesium (Cs)-Total	0.000612		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Chromium (Cr)-Total	0.00340		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Cobalt (Co)-Total	0.00190		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Copper (Cu)-Total	0.100		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Iron (Fe)-Total	6.26		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108
Lead (Pb)-Total	0.0224		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Lithium (Li)-Total	0.0054		0.0010	mg/L	24-AUG-19	27-AUG-19	R4771108
Magnesium (Mg)-Total	16.8		0.0050	mg/L	24-AUG-19	27-AUG-19	R4771108
Manganese (Mn)-Total	0.774		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Molybdenum (Mo)-Total	0.00375		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Nickel (Ni)-Total	0.00371		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Phosphorus (P)-Total	0.065		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Potassium (K)-Total	2.19		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Rubidium (Rb)-Total	0.00325		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Selenium (Se)-Total	0.000193		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Silicon (Si)-Total	7.96		0.10	mg/L	24-AUG-19	27-AUG-19	R4771108
Silver (Ag)-Total	0.000058		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Sodium (Na)-Total	2.71		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Strontium (Sr)-Total	0.865		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Sulfur (S)-Total	10.9		0.50	mg/L	24-AUG-19	27-AUG-19	R4771108

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-5 3134-BL49-60M Sampled By: Client on 21-AUG-19 @ 13:11 Matrix: Ground Water							
Total Metals							
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Thallium (Tl)-Total	0.000092		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Thorium (Th)-Total	0.00034		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Tin (Sn)-Total	<0.00010		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Titanium (Ti)-Total	0.0237		0.00030	mg/L	24-AUG-19	27-AUG-19	R4771108
Tungsten (W)-Total	0.00582		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Uranium (U)-Total	0.00292		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Vanadium (V)-Total	0.00332		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Zinc (Zn)-Total	0.198		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Zirconium (Zr)-Total	0.00940		0.000060	mg/L	24-AUG-19	27-AUG-19	R4771108
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					27-AUG-19	R4770528
Aluminum (Al)-Dissolved	0.0453		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Antimony (Sb)-Dissolved	0.00075		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Arsenic (As)-Dissolved	0.0203		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Barium (Ba)-Dissolved	0.253		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Beryllium (Be)-Dissolved	0.00055		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Boron (B)-Dissolved	0.013		0.010	mg/L	27-AUG-19	27-AUG-19	R4770709
Cadmium (Cd)-Dissolved	0.0000143		0.0000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Calcium (Ca)-Dissolved	77.5		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Cesium (Cs)-Dissolved	0.000224		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Chromium (Cr)-Dissolved	0.00029		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Cobalt (Co)-Dissolved	0.00065		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Copper (Cu)-Dissolved	0.00179		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Iron (Fe)-Dissolved	4.83		0.010	mg/L	27-AUG-19	27-AUG-19	R4770709
Lead (Pb)-Dissolved	0.000649		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Lithium (Li)-Dissolved	0.0046		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Magnesium (Mg)-Dissolved	15.8		0.0050	mg/L	27-AUG-19	27-AUG-19	R4770709
Manganese (Mn)-Dissolved	0.742		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Molybdenum (Mo)-Dissolved	0.00269		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Nickel (Ni)-Dissolved	0.00148		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Potassium (K)-Dissolved	1.99		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Rubidium (Rb)-Dissolved	0.00198		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Selenium (Se)-Dissolved	0.000084		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silicon (Si)-Dissolved	7.05		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silver (Ag)-Dissolved	0.000013		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Sodium (Na)-Dissolved	2.63		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Strontium (Sr)-Dissolved	0.816		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Sulfur (S)-Dissolved	9.97		0.50	mg/L	27-AUG-19	27-AUG-19	R4770709

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-5 3134-BL49-60M Sampled By: Client on 21-AUG-19 @ 13:11 Matrix: Ground Water							
Dissolved Metals							
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Titanium (Ti)-Dissolved	0.00176		0.00030	mg/L	27-AUG-19	27-AUG-19	R4770709
Tungsten (W)-Dissolved	0.00077		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Uranium (U)-Dissolved	0.00208		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Vanadium (V)-Dissolved	0.00105		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Zinc (Zn)-Dissolved	0.113		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Zirconium (Zr)-Dissolved	0.00601		0.000060	mg/L	27-AUG-19	27-AUG-19	R4770709
L2334537-6 3134-BL49-214M Sampled By: Client on 21-AUG-19 @ 16:00 Matrix: Ground Water							
Physical Tests							
Conductivity	578		2.0	uS/cm		30-AUG-19	R4778606
Hardness (as CaCO3)	344		0.50	mg/L		28-AUG-19	
pH	8.25		0.10	pH		30-AUG-19	R4778606
Total Suspended Solids	264		3.0	mg/L		25-AUG-19	R4768401
Total Dissolved Solids	422		40	mg/L		24-AUG-19	R4769020
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		01-SEP-19	R4782017
Alkalinity, Total (as CaCO3)	348		1.0	mg/L		30-AUG-19	R4778606
Ammonia, Total (as N)	1.65		0.20	mg/L		27-AUG-19	R4769416
Bromide (Br)	<0.10		0.10	mg/L		23-AUG-19	R4767949
Chloride (Cl)	0.72		0.10	mg/L		23-AUG-19	R4767949
Fluoride (F)	0.114		0.020	mg/L		23-AUG-19	R4767949
Nitrate (as N)	<0.020		0.020	mg/L		23-AUG-19	R4767949
Nitrite (as N)	<0.010		0.010	mg/L		23-AUG-19	R4767949
Phosphorus (P)-Total	0.546		0.030	mg/L	26-AUG-19	26-AUG-19	R4769801
Silica, Reactive (as SiO2)	11.4		1.0	mg/L		27-AUG-19	R4774389
Sulfate (SO4)	11.6		0.30	mg/L		23-AUG-19	R4767949
Total Metals							
Aluminum (Al)-Total	1.58		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Antimony (Sb)-Total	0.00690		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Arsenic (As)-Total	0.486		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Barium (Ba)-Total	0.455		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Beryllium (Be)-Total	0.0112		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Boron (B)-Total	0.014		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108
Cadmium (Cd)-Total	0.00153		0.0000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Calcium (Ca)-Total	107		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Cesium (Cs)-Total	0.00121		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-6 3134-BL49-214M Sampled By: Client on 21-AUG-19 @ 16:00 Matrix: Ground Water							
Total Metals							
Chromium (Cr)-Total	0.00630		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Cobalt (Co)-Total	0.00660		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Copper (Cu)-Total	0.564		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Iron (Fe)-Total	44.8		0.010	mg/L	24-AUG-19	27-AUG-19	R4771108
Lead (Pb)-Total	0.0591		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Lithium (Li)-Total	0.0076		0.0010	mg/L	24-AUG-19	27-AUG-19	R4771108
Magnesium (Mg)-Total	19.9		0.0050	mg/L	24-AUG-19	27-AUG-19	R4771108
Manganese (Mn)-Total	1.22		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Molybdenum (Mo)-Total	0.00676		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Nickel (Ni)-Total	0.00936		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Phosphorus (P)-Total	0.572		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Potassium (K)-Total	2.38		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Rubidium (Rb)-Total	0.00439		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Selenium (Se)-Total	0.000317		0.000050	mg/L	24-AUG-19	27-AUG-19	R4771108
Silicon (Si)-Total	8.20		0.10	mg/L	24-AUG-19	27-AUG-19	R4771108
Silver (Ag)-Total	0.000058		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Sodium (Na)-Total	2.86		0.050	mg/L	24-AUG-19	27-AUG-19	R4771108
Strontium (Sr)-Total	0.889		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Sulfur (S)-Total	5.41		0.50	mg/L	24-AUG-19	27-AUG-19	R4771108
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	24-AUG-19	27-AUG-19	R4771108
Thallium (Tl)-Total	0.000307		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Thorium (Th)-Total	0.00053		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Tin (Sn)-Total	<0.00010		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Titanium (Ti)-Total	0.0383		0.00030	mg/L	24-AUG-19	27-AUG-19	R4771108
Tungsten (W)-Total	0.0136		0.00010	mg/L	24-AUG-19	27-AUG-19	R4771108
Uranium (U)-Total	0.00702		0.000010	mg/L	24-AUG-19	27-AUG-19	R4771108
Vanadium (V)-Total	0.0175		0.00050	mg/L	24-AUG-19	27-AUG-19	R4771108
Zinc (Zn)-Total	0.692		0.0030	mg/L	24-AUG-19	27-AUG-19	R4771108
Zirconium (Zr)-Total	0.0172		0.000060	mg/L	24-AUG-19	27-AUG-19	R4771108
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					27-AUG-19	R4770528
Aluminum (Al)-Dissolved	0.0545		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Antimony (Sb)-Dissolved	0.00198		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Arsenic (As)-Dissolved	0.406		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Barium (Ba)-Dissolved	0.330		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Beryllium (Be)-Dissolved	0.00167		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Boron (B)-Dissolved	0.013		0.010	mg/L	27-AUG-19	27-AUG-19	R4770709
Cadmium (Cd)-Dissolved	0.0000055		0.0000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Calcium (Ca)-Dissolved	108		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Cesium (Cs)-Dissolved	0.000477		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2334537-6 3134-BL49-214M Sampled By: Client on 21-AUG-19 @ 16:00 Matrix: Ground Water							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00075		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Cobalt (Co)-Dissolved	0.00179		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Copper (Cu)-Dissolved	0.00576		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Iron (Fe)-Dissolved	34.7		0.010	mg/L	27-AUG-19	27-AUG-19	R4770709
Lead (Pb)-Dissolved	0.000315		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Lithium (Li)-Dissolved	0.0065		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Magnesium (Mg)-Dissolved	18.2		0.0050	mg/L	27-AUG-19	27-AUG-19	R4770709
Manganese (Mn)-Dissolved	0.919		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Molybdenum (Mo)-Dissolved	0.00574		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Nickel (Ni)-Dissolved	0.00185		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Phosphorus (P)-Dissolved	0.209		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Potassium (K)-Dissolved	2.18		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Rubidium (Rb)-Dissolved	0.00314		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Selenium (Se)-Dissolved	0.000132		0.000050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silicon (Si)-Dissolved	6.50		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Silver (Ag)-Dissolved	0.000014		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Sodium (Na)-Dissolved	2.70		0.050	mg/L	27-AUG-19	27-AUG-19	R4770709
Strontium (Sr)-Dissolved	0.878		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Sulfur (S)-Dissolved	5.31		0.50	mg/L	27-AUG-19	27-AUG-19	R4770709
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	27-AUG-19	27-AUG-19	R4770709
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Titanium (Ti)-Dissolved	0.00353		0.00030	mg/L	27-AUG-19	27-AUG-19	R4770709
Tungsten (W)-Dissolved	0.00719		0.00010	mg/L	27-AUG-19	27-AUG-19	R4770709
Uranium (U)-Dissolved	0.00283		0.000010	mg/L	27-AUG-19	27-AUG-19	R4770709
Vanadium (V)-Dissolved	0.00705		0.00050	mg/L	27-AUG-19	27-AUG-19	R4770709
Zinc (Zn)-Dissolved	0.161		0.0010	mg/L	27-AUG-19	27-AUG-19	R4770709
Zirconium (Zr)-Dissolved	0.00806		0.000060	mg/L	27-AUG-19	27-AUG-19	R4770709

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Iron (Fe)-Dissolved	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Aluminum (Al)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Arsenic (As)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Barium (Ba)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Barium (Ba)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Calcium (Ca)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Calcium (Ca)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Copper (Cu)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Iron (Fe)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Lead (Pb)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Manganese (Mn)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Manganese (Mn)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Sodium (Na)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Strontium (Sr)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Strontium (Sr)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Uranium (U)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Zinc (Zn)-Total	MS-B	L2334537-1, -2, -3, -4, -5, -6
Matrix Spike	Silica, Reactive (as SiO2)	MS-B	L2334537-1, -2, -3, -4, -5, -6

Sample Parameter Qualifier key listed:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 Acidity

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

Samples of industrial wastes, acid mine drainage, or other solutions that contain appreciable amounts of hydrolyzable metal ions such as aluminum, iron, and manganese may require hot peroxide treatment to ensure oxidation and hydrolysis of reduced forms of polyvalent cations. Acidity results may be highly variable if this procedure is not followed. Results in this report for 'Acidity (as CaCO3)' have not been peroxide treated.

ALK-TITR-VA	Water	Alkalinity Species by Titration	APHA 2320 Alkalinity

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC	APHA 3030B/6020B (mod)

Reference Information

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB Water Total Metals in Water by CRC ICPMS EPA 200.2/6020B (mod)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-COL-TB Water Ammonia by Discrete Analyzer APHA 4500-NH3 G. (modified)
Ammonia in aqueous matrices is analyzed using discrete analyzer with colourimetric detection.

NO2-IC-N-TB Water Nitrite in Water by IC EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB Water Nitrate in Water by IC EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB Water Total Phosphorus by Discrete Analyzer APHA 4500-P B, F, G (modified)
Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H pH Value
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

SIO2-COL-WP Water Reactive Silica by colour APHA 4500 SIO2
This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-TB Water Sulfate in Water by IC EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB Water Total Dissolved Solids APHA 2540 C (modified)
Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB Water Total Suspended Solids APHA 2540 D (modified)
Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: GOLD CANYON RESOURCES INC.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2
Contact: David Mchaina

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-PCT-VA	Water							
Batch R4782017								
WG3145225-3 LCS								
Acidity (as CaCO3)			102.6		%		85-115	01-SEP-19
WG3145225-1 MB								
Acidity (as CaCO3)			1.4		mg/L		2	01-SEP-19
ALK-TITR-VA	Water							
Batch R4778606								
WG3145229-3 LCS								
Alkalinity, Total (as CaCO3)			113.0		%		85-115	30-AUG-19
WG3145229-1 MB								
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	30-AUG-19
BR-IC-N-TB	Water							
Batch R4767949								
WG3141515-15 DUP		**L2334537-4**						
Bromide (Br)		0.14	0.11		mg/L	18	20	23-AUG-19
WG3141515-14 LCS								
Bromide (Br)			97.4		%		85-115	23-AUG-19
WG3141515-13 MB								
Bromide (Br)			<0.10		mg/L		0.1	23-AUG-19
WG3141515-16 MS		**L2334537-5**						
Bromide (Br)			102.2		%		75-125	23-AUG-19
CL-L-IC-N-TB	Water							
Batch R4767949								
WG3141515-15 DUP		**L2334537-4**						
Chloride (Cl)		6.17	5.90		mg/L	4.3	20	23-AUG-19
WG3141515-14 LCS								
Chloride (Cl)			97.8		%		90-110	23-AUG-19
WG3141515-13 MB								
Chloride (Cl)			<0.10		mg/L		0.1	23-AUG-19
WG3141515-16 MS		**L2334537-5**						
Chloride (Cl)			96.5		%		75-125	23-AUG-19
EC-PCT-VA	Water							
Batch R4778606								
WG3145229-3 LCS								
Conductivity			99.1		%		90-110	30-AUG-19
WG3145229-1 MB								
Conductivity			<2.0		uS/cm		2	30-AUG-19
F-IC-N-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-TB	Water							
Batch R4767949								
WG3141515-15 DUP		**L2334537-4**						
Fluoride (F)		0.237	0.219		mg/L	7.7	20	23-AUG-19
WG3141515-14 LCS								
Fluoride (F)			102.7		%		90-110	23-AUG-19
WG3141515-13 MB								
Fluoride (F)			<0.020		mg/L		0.02	23-AUG-19
WG3141515-16 MS		**L2334537-5**						
Fluoride (F)			106.1		%		75-125	23-AUG-19
MET-D-CCMS-TB	Water							
Batch R4770709								
WG3143570-3 DUP		**L2334537-5**						
Aluminum (Al)-Dissolved		0.0453	0.0458		mg/L	1.1	20	27-AUG-19
Antimony (Sb)-Dissolved		0.00075	0.00075		mg/L	0.0	20	27-AUG-19
Arsenic (As)-Dissolved		0.0203	0.0201		mg/L	0.9	20	27-AUG-19
Barium (Ba)-Dissolved		0.253	0.256		mg/L	1.5	20	27-AUG-19
Beryllium (Be)-Dissolved		0.00055	0.00054		mg/L	2.5	20	27-AUG-19
Bismuth (Bi)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	27-AUG-19
Boron (B)-Dissolved		0.013	0.013		mg/L	4.7	20	27-AUG-19
Cadmium (Cd)-Dissolved		0.0000143	0.0000170		mg/L	18	20	27-AUG-19
Calcium (Ca)-Dissolved		77.5	75.8		mg/L	2.1	20	27-AUG-19
Cesium (Cs)-Dissolved		0.000224	0.000220		mg/L	1.6	20	27-AUG-19
Chromium (Cr)-Dissolved		0.00029	0.00026		mg/L	8.8	20	27-AUG-19
Cobalt (Co)-Dissolved		0.00065	0.00067		mg/L	3.8	20	27-AUG-19
Copper (Cu)-Dissolved		0.00179	0.00182		mg/L	1.7	20	27-AUG-19
Iron (Fe)-Dissolved		4.83	4.87		mg/L	1.0	20	27-AUG-19
Lead (Pb)-Dissolved		0.000649	0.000662		mg/L	2.1	20	27-AUG-19
Lithium (Li)-Dissolved		0.0046	0.0047		mg/L	1.8	20	27-AUG-19
Magnesium (Mg)-Dissolved		15.8	15.8		mg/L	0.1	20	27-AUG-19
Manganese (Mn)-Dissolved		0.742	0.735		mg/L	1.0	20	27-AUG-19
Molybdenum (Mo)-Dissolved		0.00269	0.00274		mg/L	2.0	20	27-AUG-19
Nickel (Ni)-Dissolved		0.00148	0.00146		mg/L	0.9	20	27-AUG-19
Phosphorus (P)-Dissolved		<0.050	<0.050	RPD-NA	mg/L	N/A	20	27-AUG-19
Potassium (K)-Dissolved		1.99	1.97		mg/L	0.7	20	27-AUG-19
Rubidium (Rb)-Dissolved		0.00198	0.00191		mg/L	3.5	20	27-AUG-19
Selenium (Se)-Dissolved		0.000084	0.000088		mg/L	5.1	20	27-AUG-19
Silicon (Si)-Dissolved		7.05	7.06		mg/L	0.2	20	27-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4770709								
WG3143570-3 DUP		**L2334537-5**						
Silver (Ag)-Dissolved		0.000013	0.000011		mg/L	15	20	27-AUG-19
Sodium (Na)-Dissolved		2.63	2.60		mg/L	1.3	20	27-AUG-19
Strontium (Sr)-Dissolved		0.816	0.825		mg/L	1.0	20	27-AUG-19
Sulfur (S)-Dissolved		9.97	10.1		mg/L	1.5	20	27-AUG-19
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-AUG-19
Thallium (Tl)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	27-AUG-19
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-AUG-19
Tin (Sn)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-AUG-19
Titanium (Ti)-Dissolved		0.00176	0.00191		mg/L	8.2	20	27-AUG-19
Tungsten (W)-Dissolved		0.00077	0.00077		mg/L	0.8	20	27-AUG-19
Uranium (U)-Dissolved		0.00208	0.00209		mg/L	0.3	20	27-AUG-19
Vanadium (V)-Dissolved		0.00105	0.00104		mg/L	1.8	20	27-AUG-19
Zinc (Zn)-Dissolved		0.113	0.113		mg/L	0.2	20	27-AUG-19
Zirconium (Zr)-Dissolved		0.00601	0.00608		mg/L	1.2	20	27-AUG-19
WG3143570-2 LCS								
Aluminum (Al)-Dissolved			100.4		%		80-120	27-AUG-19
Antimony (Sb)-Dissolved			104.4		%		80-120	27-AUG-19
Arsenic (As)-Dissolved			98.3		%		80-120	27-AUG-19
Barium (Ba)-Dissolved			101.6		%		80-120	27-AUG-19
Beryllium (Be)-Dissolved			104.5		%		80-120	27-AUG-19
Bismuth (Bi)-Dissolved			102.3		%		80-120	27-AUG-19
Boron (B)-Dissolved			92.9		%		80-120	27-AUG-19
Cadmium (Cd)-Dissolved			101.2		%		80-120	27-AUG-19
Calcium (Ca)-Dissolved			102.6		%		80-120	27-AUG-19
Cesium (Cs)-Dissolved			105.3		%		80-120	27-AUG-19
Chromium (Cr)-Dissolved			100.8		%		80-120	27-AUG-19
Cobalt (Co)-Dissolved			101.8		%		80-120	27-AUG-19
Copper (Cu)-Dissolved			98.3		%		80-120	27-AUG-19
Iron (Fe)-Dissolved			104.2		%		80-120	27-AUG-19
Lead (Pb)-Dissolved			101.3		%		80-120	27-AUG-19
Lithium (Li)-Dissolved			100.2		%		80-120	27-AUG-19
Magnesium (Mg)-Dissolved			104.0		%		80-120	27-AUG-19
Manganese (Mn)-Dissolved			98.7		%		80-120	27-AUG-19
Molybdenum (Mo)-Dissolved			103.4		%		80-120	27-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4770709								
WG3143570-2 LCS								
Nickel (Ni)-Dissolved			99.7		%		80-120	27-AUG-19
Phosphorus (P)-Dissolved			99.9		%		80-120	27-AUG-19
Potassium (K)-Dissolved			97.4		%		80-120	27-AUG-19
Rubidium (Rb)-Dissolved			102.0		%		80-120	27-AUG-19
Selenium (Se)-Dissolved			104.5		%		80-120	27-AUG-19
Silicon (Si)-Dissolved			97.4		%		80-120	27-AUG-19
Silver (Ag)-Dissolved			107.0		%		80-120	27-AUG-19
Sodium (Na)-Dissolved			101.3		%		80-120	27-AUG-19
Strontium (Sr)-Dissolved			102.4		%		80-120	27-AUG-19
Sulfur (S)-Dissolved			107.2		%		80-120	27-AUG-19
Tellurium (Te)-Dissolved			99.4		%		80-120	27-AUG-19
Thallium (Tl)-Dissolved			101.9		%		80-120	27-AUG-19
Thorium (Th)-Dissolved			97.0		%		80-120	27-AUG-19
Tin (Sn)-Dissolved			101.5		%		80-120	27-AUG-19
Titanium (Ti)-Dissolved			95.1		%		80-120	27-AUG-19
Tungsten (W)-Dissolved			100.9		%		80-120	27-AUG-19
Uranium (U)-Dissolved			94.8		%		80-120	27-AUG-19
Vanadium (V)-Dissolved			102.0		%		80-120	27-AUG-19
Zinc (Zn)-Dissolved			99.1		%		80-120	27-AUG-19
Zirconium (Zr)-Dissolved			98.5		%		80-120	27-AUG-19
WG3143570-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	27-AUG-19
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	27-AUG-19
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	27-AUG-19
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	27-AUG-19
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	27-AUG-19
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	27-AUG-19
Boron (B)-Dissolved			<0.010		mg/L		0.01	27-AUG-19
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	27-AUG-19
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	27-AUG-19
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	27-AUG-19
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	27-AUG-19
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	27-AUG-19
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	27-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4770709								
WG3143570-1 MB								
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	27-AUG-19
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	27-AUG-19
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	27-AUG-19
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	27-AUG-19
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	27-AUG-19
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	27-AUG-19
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	27-AUG-19
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	27-AUG-19
Potassium (K)-Dissolved			<0.050		mg/L		0.05	27-AUG-19
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	27-AUG-19
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	27-AUG-19
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	27-AUG-19
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	27-AUG-19
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	27-AUG-19
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	27-AUG-19
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	27-AUG-19
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	27-AUG-19
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	27-AUG-19
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	27-AUG-19
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	27-AUG-19
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	27-AUG-19
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	27-AUG-19
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	27-AUG-19
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	27-AUG-19
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	27-AUG-19
Zirconium (Zr)-Dissolved			<0.000060		mg/L		0.00006	27-AUG-19
WG3143570-4 MS		**L2334537-6**						
Aluminum (Al)-Dissolved			101.0		%		70-130	27-AUG-19
Antimony (Sb)-Dissolved			106.8		%		70-130	27-AUG-19
Arsenic (As)-Dissolved			N/A	MS-B	%		-	27-AUG-19
Barium (Ba)-Dissolved			N/A	MS-B	%		-	27-AUG-19
Beryllium (Be)-Dissolved			106.5		%		70-130	27-AUG-19
Bismuth (Bi)-Dissolved			95.4		%		70-130	27-AUG-19
Boron (B)-Dissolved			98.6		%		70-130	27-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4770709								
WG3143570-4 MS		**L2334537-6**						
Cadmium (Cd)-Dissolved			104.9		%		70-130	27-AUG-19
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	27-AUG-19
Cesium (Cs)-Dissolved			109.4		%		70-130	27-AUG-19
Chromium (Cr)-Dissolved			101.8		%		70-130	27-AUG-19
Cobalt (Co)-Dissolved			101.5		%		70-130	27-AUG-19
Copper (Cu)-Dissolved			97.5		%		70-130	27-AUG-19
Iron (Fe)-Dissolved			N/A	MS-B	%		-	27-AUG-19
Lead (Pb)-Dissolved			99.6		%		70-130	27-AUG-19
Lithium (Li)-Dissolved			97.4		%		70-130	27-AUG-19
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	27-AUG-19
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	27-AUG-19
Molybdenum (Mo)-Dissolved			105.8		%		70-130	27-AUG-19
Nickel (Ni)-Dissolved			98.8		%		70-130	27-AUG-19
Phosphorus (P)-Dissolved			102.9		%		70-130	27-AUG-19
Potassium (K)-Dissolved			95.8		%		70-130	27-AUG-19
Rubidium (Rb)-Dissolved			105.0		%		70-130	27-AUG-19
Selenium (Se)-Dissolved			109.3		%		70-130	27-AUG-19
Silicon (Si)-Dissolved			85.9		%		70-130	27-AUG-19
Silver (Ag)-Dissolved			102.9		%		70-130	27-AUG-19
Sodium (Na)-Dissolved			N/A	MS-B	%		-	27-AUG-19
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	27-AUG-19
Sulfur (S)-Dissolved			105.1		%		70-130	27-AUG-19
Tellurium (Te)-Dissolved			110.4		%		70-130	27-AUG-19
Thallium (Tl)-Dissolved			96.8		%		70-130	27-AUG-19
Thorium (Th)-Dissolved			98.9		%		70-130	27-AUG-19
Tin (Sn)-Dissolved			105.6		%		70-130	27-AUG-19
Titanium (Ti)-Dissolved			101.7		%		70-130	27-AUG-19
Tungsten (W)-Dissolved			104.4		%		70-130	27-AUG-19
Uranium (U)-Dissolved			94.3		%		70-130	27-AUG-19
Vanadium (V)-Dissolved			103.7		%		70-130	27-AUG-19
Zinc (Zn)-Dissolved			100.9		%		70-130	27-AUG-19
Zirconium (Zr)-Dissolved			106.7		%		70-130	27-AUG-19
MET-T-CCMS-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4771108								
WG3142409-7 DUP		**L2334537-5**						
Aluminum (Al)-Total		0.576	0.625		mg/L	8.2	20	27-AUG-19
Antimony (Sb)-Total		0.00336	0.00361		mg/L	7.1	20	27-AUG-19
Arsenic (As)-Total		0.0267	0.0266		mg/L	0.2	20	27-AUG-19
Barium (Ba)-Total		0.284	0.284		mg/L	0.1	20	27-AUG-19
Beryllium (Be)-Total		0.00161	0.00159		mg/L	1.1	20	27-AUG-19
Bismuth (Bi)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	27-AUG-19
Boron (B)-Total		0.014	0.013		mg/L	4.7	20	27-AUG-19
Cadmium (Cd)-Total		0.000317	0.000328		mg/L	3.3	20	27-AUG-19
Calcium (Ca)-Total		78.0	77.1		mg/L	1.1	20	27-AUG-19
Cesium (Cs)-Total		0.000612	0.000664		mg/L	8.1	20	27-AUG-19
Chromium (Cr)-Total		0.00340	0.00370		mg/L	8.6	20	27-AUG-19
Cobalt (Co)-Total		0.00190	0.00201		mg/L	5.6	20	27-AUG-19
Copper (Cu)-Total		0.100	0.102		mg/L	1.9	20	27-AUG-19
Iron (Fe)-Total		6.26	6.33		mg/L	1.2	20	27-AUG-19
Lead (Pb)-Total		0.0224	0.0219		mg/L	2.2	20	27-AUG-19
Lithium (Li)-Total		0.0054	0.0051		mg/L	4.3	20	27-AUG-19
Magnesium (Mg)-Total		16.8	16.7		mg/L	0.6	20	27-AUG-19
Manganese (Mn)-Total		0.774	0.783		mg/L	1.1	20	27-AUG-19
Molybdenum (Mo)-Total		0.00375	0.00358		mg/L	4.8	20	27-AUG-19
Nickel (Ni)-Total		0.00371	0.00378		mg/L	1.8	20	27-AUG-19
Phosphorus (P)-Total		0.065	0.068		mg/L	5.8	20	27-AUG-19
Potassium (K)-Total		2.19	2.22		mg/L	1.6	20	27-AUG-19
Rubidium (Rb)-Total		0.00325	0.00336		mg/L	3.2	20	27-AUG-19
Selenium (Se)-Total		0.000193	0.000186		mg/L	3.5	20	27-AUG-19
Silicon (Si)-Total		7.96	8.03		mg/L	0.9	20	27-AUG-19
Silver (Ag)-Total		0.000058	0.000066		mg/L	13	20	27-AUG-19
Sodium (Na)-Total		2.71	2.69		mg/L	0.7	20	27-AUG-19
Strontium (Sr)-Total		0.865	0.843		mg/L	2.6	20	27-AUG-19
Sulfur (S)-Total		10.9	10.9		mg/L	0.9	20	27-AUG-19
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	27-AUG-19
Thallium (Tl)-Total		0.000092	0.000087		mg/L	4.5	20	27-AUG-19
Thorium (Th)-Total		0.00034	0.00035		mg/L	3.8	20	27-AUG-19
Tin (Sn)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-AUG-19
Titanium (Ti)-Total		0.0237	0.0259		mg/L	9.0	20	27-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4771108								
WG3142409-7 DUP		**L2334537-5**						
Tungsten (W)-Total		0.00582	0.00579		mg/L	0.6	20	27-AUG-19
Uranium (U)-Total		0.00292	0.00284		mg/L	2.8	20	27-AUG-19
Vanadium (V)-Total		0.00332	0.00343		mg/L	3.2	20	27-AUG-19
Zinc (Zn)-Total		0.198	0.198		mg/L	0.0	20	27-AUG-19
Zirconium (Zr)-Total		0.00940	0.00932		mg/L	0.8	20	27-AUG-19
WG3142409-2 LCS								
Aluminum (Al)-Total			101.5		%		80-120	27-AUG-19
Antimony (Sb)-Total			101.9		%		80-120	27-AUG-19
Arsenic (As)-Total			100.2		%		80-120	27-AUG-19
Barium (Ba)-Total			100.7		%		80-120	27-AUG-19
Beryllium (Be)-Total			96.0		%		80-120	27-AUG-19
Bismuth (Bi)-Total			105.0		%		80-120	27-AUG-19
Boron (B)-Total			83.7		%		80-120	27-AUG-19
Cadmium (Cd)-Total			102.5		%		80-120	27-AUG-19
Calcium (Ca)-Total			97.2		%		80-120	27-AUG-19
Cesium (Cs)-Total			96.1		%		80-120	27-AUG-19
Chromium (Cr)-Total			104.8		%		80-120	27-AUG-19
Cobalt (Co)-Total			101.2		%		80-120	27-AUG-19
Copper (Cu)-Total			99.3		%		80-120	27-AUG-19
Iron (Fe)-Total			103.8		%		80-120	27-AUG-19
Lead (Pb)-Total			104.7		%		80-120	27-AUG-19
Lithium (Li)-Total			85.3		%		80-120	27-AUG-19
Magnesium (Mg)-Total			105.7		%		80-120	27-AUG-19
Manganese (Mn)-Total			100.8		%		80-120	27-AUG-19
Molybdenum (Mo)-Total			100.5		%		80-120	27-AUG-19
Nickel (Ni)-Total			99.5		%		80-120	27-AUG-19
Phosphorus (P)-Total			104.5		%		80-120	27-AUG-19
Potassium (K)-Total			100.8		%		80-120	27-AUG-19
Rubidium (Rb)-Total			103.2		%		80-120	27-AUG-19
Selenium (Se)-Total			101.2		%		80-120	27-AUG-19
Silicon (Si)-Total			100.4		%		80-120	27-AUG-19
Silver (Ag)-Total			98.9		%		80-120	27-AUG-19
Sodium (Na)-Total			102.0		%		80-120	27-AUG-19
Strontium (Sr)-Total			100.3		%		80-120	27-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4771108								
WG3142409-2 LCS								
Sulfur (S)-Total			94.8		%		80-120	27-AUG-19
Tellurium (Te)-Total			91.2		%		80-120	27-AUG-19
Thallium (Tl)-Total			105.8		%		80-120	27-AUG-19
Thorium (Th)-Total			98.9		%		80-120	27-AUG-19
Tin (Sn)-Total			98.3		%		80-120	27-AUG-19
Titanium (Ti)-Total			102.7		%		80-120	27-AUG-19
Tungsten (W)-Total			103.1		%		80-120	27-AUG-19
Uranium (U)-Total			102.4		%		80-120	27-AUG-19
Vanadium (V)-Total			102.6		%		80-120	27-AUG-19
Zinc (Zn)-Total			105.2		%		80-120	27-AUG-19
Zirconium (Zr)-Total			104.6		%		80-120	27-AUG-19
WG3142409-6 LCS								
Aluminum (Al)-Total			103.8		%		80-120	27-AUG-19
Antimony (Sb)-Total			102.6		%		80-120	27-AUG-19
Arsenic (As)-Total			100.4		%		80-120	27-AUG-19
Barium (Ba)-Total			103.4		%		80-120	27-AUG-19
Beryllium (Be)-Total			96.1		%		80-120	27-AUG-19
Bismuth (Bi)-Total			105.2		%		80-120	27-AUG-19
Boron (B)-Total			84.4		%		80-120	27-AUG-19
Cadmium (Cd)-Total			103.5		%		80-120	27-AUG-19
Calcium (Ca)-Total			98.5		%		80-120	27-AUG-19
Cesium (Cs)-Total			97.9		%		80-120	27-AUG-19
Chromium (Cr)-Total			106.3		%		80-120	27-AUG-19
Cobalt (Co)-Total			101.4		%		80-120	27-AUG-19
Copper (Cu)-Total			102.6		%		80-120	27-AUG-19
Iron (Fe)-Total			107.5		%		80-120	27-AUG-19
Lead (Pb)-Total			105.4		%		80-120	27-AUG-19
Lithium (Li)-Total			91.6		%		80-120	27-AUG-19
Magnesium (Mg)-Total			108.8		%		80-120	27-AUG-19
Manganese (Mn)-Total			103.8		%		80-120	27-AUG-19
Molybdenum (Mo)-Total			100.9		%		80-120	27-AUG-19
Nickel (Ni)-Total			99.8		%		80-120	27-AUG-19
Phosphorus (P)-Total			106.2		%		80-120	27-AUG-19
Potassium (K)-Total			101.5		%		80-120	27-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4771108								
WG3142409-6 LCS								
Rubidium (Rb)-Total			101.5		%		80-120	27-AUG-19
Selenium (Se)-Total			104.7		%		80-120	27-AUG-19
Silicon (Si)-Total			107.6		%		80-120	27-AUG-19
Silver (Ag)-Total			99.3		%		80-120	27-AUG-19
Sodium (Na)-Total			101.9		%		80-120	27-AUG-19
Strontium (Sr)-Total			97.9		%		80-120	27-AUG-19
Sulfur (S)-Total			93.3		%		80-120	27-AUG-19
Tellurium (Te)-Total			95.8		%		80-120	27-AUG-19
Thallium (Tl)-Total			105.6		%		80-120	27-AUG-19
Thorium (Th)-Total			101.5		%		80-120	27-AUG-19
Tin (Sn)-Total			99.7		%		80-120	27-AUG-19
Titanium (Ti)-Total			104.2		%		80-120	27-AUG-19
Tungsten (W)-Total			105.3		%		80-120	27-AUG-19
Uranium (U)-Total			105.2		%		80-120	27-AUG-19
Vanadium (V)-Total			101.9		%		80-120	27-AUG-19
Zinc (Zn)-Total			103.3		%		80-120	27-AUG-19
Zirconium (Zr)-Total			103.4		%		80-120	27-AUG-19
WG3142409-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	27-AUG-19
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Arsenic (As)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Barium (Ba)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	27-AUG-19
Boron (B)-Total			<0.010		mg/L		0.01	27-AUG-19
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	27-AUG-19
Calcium (Ca)-Total			<0.050		mg/L		0.05	27-AUG-19
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	27-AUG-19
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Copper (Cu)-Total			<0.00050		mg/L		0.0005	27-AUG-19
Iron (Fe)-Total			<0.010		mg/L		0.01	27-AUG-19
Lead (Pb)-Total			<0.000050		mg/L		0.00005	27-AUG-19
Lithium (Li)-Total			<0.0010		mg/L		0.001	27-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4771108								
WG3142409-1 MB								
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	27-AUG-19
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	27-AUG-19
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	27-AUG-19
Phosphorus (P)-Total			<0.050		mg/L		0.05	27-AUG-19
Potassium (K)-Total			<0.050		mg/L		0.05	27-AUG-19
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	27-AUG-19
Selenium (Se)-Total			<0.000050		mg/L		0.00005	27-AUG-19
Silicon (Si)-Total			<0.10		mg/L		0.1	27-AUG-19
Silver (Ag)-Total			<0.000010		mg/L		0.00001	27-AUG-19
Sodium (Na)-Total			<0.050		mg/L		0.05	27-AUG-19
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	27-AUG-19
Sulfur (S)-Total			<0.50		mg/L		0.5	27-AUG-19
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	27-AUG-19
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	27-AUG-19
Thorium (Th)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Tin (Sn)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	27-AUG-19
Tungsten (W)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Uranium (U)-Total			<0.000010		mg/L		0.00001	27-AUG-19
Vanadium (V)-Total			<0.00050		mg/L		0.0005	27-AUG-19
Zinc (Zn)-Total			<0.0030		mg/L		0.003	27-AUG-19
Zirconium (Zr)-Total			<0.000060		mg/L		0.00006	27-AUG-19
WG3142409-5 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	27-AUG-19
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Arsenic (As)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Barium (Ba)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	27-AUG-19
Boron (B)-Total			<0.010		mg/L		0.01	27-AUG-19
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	27-AUG-19
Calcium (Ca)-Total			<0.050		mg/L		0.05	27-AUG-19
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	27-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4771108								
WG3142409-5 MB								
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Copper (Cu)-Total			<0.00050		mg/L		0.0005	27-AUG-19
Iron (Fe)-Total			<0.010		mg/L		0.01	27-AUG-19
Lead (Pb)-Total			<0.000050		mg/L		0.00005	27-AUG-19
Lithium (Li)-Total			<0.0010		mg/L		0.001	27-AUG-19
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	27-AUG-19
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	27-AUG-19
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	27-AUG-19
Phosphorus (P)-Total			<0.050		mg/L		0.05	27-AUG-19
Potassium (K)-Total			<0.050		mg/L		0.05	27-AUG-19
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	27-AUG-19
Selenium (Se)-Total			<0.000050		mg/L		0.00005	27-AUG-19
Silicon (Si)-Total			<0.10		mg/L		0.1	27-AUG-19
Silver (Ag)-Total			<0.000010		mg/L		0.00001	27-AUG-19
Sodium (Na)-Total			<0.050		mg/L		0.05	27-AUG-19
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	27-AUG-19
Sulfur (S)-Total			<0.50		mg/L		0.5	27-AUG-19
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	27-AUG-19
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	27-AUG-19
Thorium (Th)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Tin (Sn)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	27-AUG-19
Tungsten (W)-Total			<0.00010		mg/L		0.0001	27-AUG-19
Uranium (U)-Total			<0.000010		mg/L		0.00001	27-AUG-19
Vanadium (V)-Total			<0.00050		mg/L		0.0005	27-AUG-19
Zinc (Zn)-Total			<0.0030		mg/L		0.003	27-AUG-19
Zirconium (Zr)-Total			<0.000060		mg/L		0.00006	27-AUG-19
WG3142409-8 MS		**L2334537-6**						
Aluminum (Al)-Total			N/A	MS-B	%		-	27-AUG-19
Antimony (Sb)-Total			104.1		%		70-130	27-AUG-19
Arsenic (As)-Total			N/A	MS-B	%		-	27-AUG-19
Barium (Ba)-Total			N/A	MS-B	%		-	27-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4771108								
WG3142409-8 MS		**L2334537-6**						
Beryllium (Be)-Total			99.6		%		70-130	27-AUG-19
Bismuth (Bi)-Total			101.7		%		70-130	27-AUG-19
Boron (B)-Total			90.6		%		70-130	27-AUG-19
Cadmium (Cd)-Total			106.0		%		70-120	27-AUG-19
Calcium (Ca)-Total			N/A	MS-B	%		-	27-AUG-19
Cesium (Cs)-Total			102.0		%		70-130	27-AUG-19
Chromium (Cr)-Total			109.8		%		70-130	27-AUG-19
Cobalt (Co)-Total			103.8		%		70-130	27-AUG-19
Copper (Cu)-Total			N/A	MS-B	%		-	27-AUG-19
Iron (Fe)-Total			N/A	MS-B	%		-	27-AUG-19
Lead (Pb)-Total			N/A	MS-B	%		-	27-AUG-19
Lithium (Li)-Total			89.7		%		70-130	27-AUG-19
Magnesium (Mg)-Total			N/A	MS-B	%		-	27-AUG-19
Manganese (Mn)-Total			N/A	MS-B	%		-	27-AUG-19
Molybdenum (Mo)-Total			102.0		%		70-130	27-AUG-19
Nickel (Ni)-Total			101.9		%		70-130	27-AUG-19
Phosphorus (P)-Total			111.0		%		70-130	27-AUG-19
Potassium (K)-Total			102.5		%		70-130	27-AUG-19
Rubidium (Rb)-Total			103.5		%		70-130	27-AUG-19
Selenium (Se)-Total			111.1		%		70-130	27-AUG-19
Silicon (Si)-Total			89.1		%		70-130	27-AUG-19
Silver (Ag)-Total			101.7		%		70-130	27-AUG-19
Sodium (Na)-Total			N/A	MS-B	%		-	27-AUG-19
Strontium (Sr)-Total			N/A	MS-B	%		-	27-AUG-19
Sulfur (S)-Total			110.3		%		70-130	27-AUG-19
Tellurium (Te)-Total			99.9		%		70-130	27-AUG-19
Thallium (Tl)-Total			100.4		%		70-130	27-AUG-19
Thorium (Th)-Total			100.7		%		70-130	27-AUG-19
Tin (Sn)-Total			101.5		%		70-130	27-AUG-19
Titanium (Ti)-Total			113.1		%		70-130	27-AUG-19
Tungsten (W)-Total			105.8		%		70-130	27-AUG-19
Uranium (U)-Total			N/A	MS-B	%		-	27-AUG-19
Vanadium (V)-Total			105.7		%		70-130	27-AUG-19
Zinc (Zn)-Total			N/A	MS-B	%		-	27-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4771108								
WG3142409-8 MS		**L2334537-6**						
Zirconium (Zr)-Total			105.0		%		70-130	27-AUG-19
NH3-COL-TB	Water							
Batch R4769416								
WG3144217-7 DUP		**L2334537-1**						
Ammonia, Total (as N)		0.257	0.256		mg/L	0.4	20	27-AUG-19
WG3144217-6 LCS								
Ammonia, Total (as N)			98.6		%		85-115	27-AUG-19
WG3144217-5 MB								
Ammonia, Total (as N)			<0.020		mg/L		0.02	27-AUG-19
WG3144217-8 MS		**L2334537-2**						
Ammonia, Total (as N)			89.8		%		75-125	27-AUG-19
NO2-IC-N-TB	Water							
Batch R4767949								
WG3141515-15 DUP		**L2334537-4**						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	20	23-AUG-19
WG3141515-14 LCS								
Nitrite (as N)			100.0		%		90-110	23-AUG-19
WG3141515-13 MB								
Nitrite (as N)			<0.010		mg/L		0.01	23-AUG-19
WG3141515-16 MS		**L2334537-5**						
Nitrite (as N)			102.0		%		75-125	23-AUG-19
NO3-IC-N-TB	Water							
Batch R4767949								
WG3141515-15 DUP		**L2334537-4**						
Nitrate (as N)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	23-AUG-19
WG3141515-14 LCS								
Nitrate (as N)			101.4		%		90-110	23-AUG-19
WG3141515-13 MB								
Nitrate (as N)			<0.020		mg/L		0.02	23-AUG-19
WG3141515-16 MS		**L2334537-5**						
Nitrate (as N)			101.5		%		75-125	23-AUG-19
P-T-COL-TB	Water							
Batch R4769801								
WG3141856-6 LCS								
Phosphorus (P)-Total			100.2		%		80-120	26-AUG-19
WG3141856-5 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-T-COL-TB	Water							
Batch R4769801								
WG3141856-5 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	26-AUG-19
PH-PCT-VA	Water							
Batch R4778606								
WG3145229-2 CRM		**VA-PH7-BUF**						
pH			7.00		pH		6.9-7.1	30-AUG-19
SIO2-COL-WP	Water							
Batch R4774389								
WG3146418-2 LCS								
Silica, Reactive (as SiO2)			101.9		%		85-115	27-AUG-19
WG3146418-6 LCS								
Silica, Reactive (as SiO2)			100.8		%		85-115	27-AUG-19
WG3146418-1 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	27-AUG-19
WG3146418-5 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	27-AUG-19
SO4-IC-N-TB	Water							
Batch R4767949								
WG3141515-15 DUP		**L2334537-4**						
Sulfate (SO4)		28.6	26.4		mg/L	8.0	20	23-AUG-19
WG3141515-14 LCS								
Sulfate (SO4)			100.1		%		90-110	23-AUG-19
WG3141515-13 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	23-AUG-19
WG3141515-16 MS		**L2334537-5**						
Sulfate (SO4)			96.1		%		75-125	23-AUG-19
TDS-TB	Water							
Batch R4768223								
WG3142505-3 DUP		**L2334537-3**						
Total Dissolved Solids		239	233		mg/L	2.3	20	24-AUG-19
WG3142505-2 LCS								
Total Dissolved Solids			95.2		%		85-115	24-AUG-19
WG3142505-1 MB								
Total Dissolved Solids			<10		mg/L		10	24-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-TB	Water							
Batch R4768226								
WG3142387-2 LCS								
Total Dissolved Solids			95.0		%		85-115	24-AUG-19
WG3142387-1 MB								
Total Dissolved Solids			<10		mg/L		10	24-AUG-19
Batch R4769020								
WG3142553-3 DUP		**L2334537-5**						
Total Dissolved Solids		303	308		mg/L	1.6	20	24-AUG-19
WG3142553-2 LCS								
Total Dissolved Solids			92.1		%		85-115	24-AUG-19
WG3142553-1 MB								
Total Dissolved Solids			<10		mg/L		10	24-AUG-19
TSS-TB	Water							
Batch R4767831								
WG3141937-2 LCS								
Total Suspended Solids			96.8		%		85-115	23-AUG-19
WG3141937-1 MB								
Total Suspended Solids			<2.0		mg/L		2	23-AUG-19
Batch R4768186								
WG3142375-2 LCS								
Total Suspended Solids			97.2		%		85-115	24-AUG-19
WG3142375-1 MB								
Total Suspended Solids			<2.0		mg/L		2	24-AUG-19
Batch R4768401								
WG3142500-2 LCS								
Total Suspended Solids			94.1		%		85-115	25-AUG-19
WG3142500-1 MB								
Total Suspended Solids			<2.0		mg/L		2	25-AUG-19

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH by Meter (Automated)							
	1	20-AUG-19 11:00	30-AUG-19 13:19	0.25	242	hours	EHTR-FM
	2	20-AUG-19 13:40	30-AUG-19 13:19	0.25	240	hours	EHTR-FM
	3	20-AUG-19 16:53	30-AUG-19 13:19	0.25	236	hours	EHTR-FM
	4	21-AUG-19 10:43	30-AUG-19 13:19	0.25	219	hours	EHTR-FM
	5	21-AUG-19 13:11	30-AUG-19 13:19	0.25	216	hours	EHTR-FM
	6	21-AUG-19 16:00	30-AUG-19 13:19	0.25	213	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2334537 were received on 23-AUG-19 09:10.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2334537-COFC

COC Number: 17 -

Page 1 of

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	1800-925 West Georgia Street
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Quality Control (QC) Report with Report ☑ YES ☐ NO

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: dmchaina@firstmininggold.com

Email 2: shila@firstmininggold.com

Email 3: glenn_ffc@ns.aliantzinc.ca

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☑ MAIL ☐ FAX

Email 1 or Fax:

Email 2:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

Priority (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

Emergency: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	20864 / Q64154	AFE/Cost Center:	PO#:
Job #:		Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2334537	ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity	Total Metals	Dissolved Metals	Reactive Silica	F, Hardness, NO2, NO3, pH, SO4	Total Phosphorous, TSS	TDS	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-BL111-60m	20-Aug-19	11:00	Ground Water		R	R	R	R	R	R	R		
	3134-BL111-138m	20-Aug-19	13:40	Ground Water		R	R	R	R	R	R	R		
	3134-BL111-238m	20-Aug-19	16:53	Ground Water		R	R	R	R	R	R	R		
	3134-BL111-338m	21-Aug-19	10:43	Ground Water		R	R	R	R	R	R	R		
	3134-BL49-60m	21-Aug-19	13:11	Ground Water		R	R	R	R	R	R	R		
	3134-BL49-214m	21-Aug-19	16:00	Ground Water		R	R	R	R	R	R	R		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☑ SD | SIF Observations Yes ☐ No ☑

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
8.3							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: Glenn Burley	08/22/19	Time:	Received by: SD	Date: Aug 23/19	Time: 9:10	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2015 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

SD

Client: Gold Canyon

Sample Layout Verification:	Verified By	Date	Time
	SD	Aug. 23/ 2019	9:32

Labels Verification:	Verified By	Do any samples require prep?
	ET	NO P F/P

L2334537-COFC

		Sample #:	1-6															
1L	Plastic																	
500mL	Plastic																	
250mL	Plastic		2															
145mL	Plastic		2															
60mL	Plastic		1															
Micro																		
Toxicity Pail																		
1L	Glass																	
500mL	Glass																	
250mL	Glass																	
120mL	Glass																	
60mL	Glass																	
40mL	Vial (Glass)																	
40mL	Methanol Vials																	
Soil Jar (120, 250 or 500mL)																		
Other:	100ml glass		1															
Other:																		
Total Number of Bottles			6															

Trip/Travel/Field Blank Information

Solids Batch#:	Metals Batch#:	T:	D:
Routine Batch#:	Mercury Batch#:	T:	D:
BOD Batch#:	Cyanide Batch#:	T:	D:
Nutrients Batch#:	OGG Batch#:		
DOC/Carbon Batch#:	Phenols Batch#:		
VOC Batch#:			
Other:			

COOLER TRACKING

EPP		Coleman	
Small		Micro (5QT)	
Med		Sm(9QT)	
Lrg		Med(16QT)	
Micro Box		Lrg(28QT)	
		Lrg(48QT)	

GOLD CANYON RESOURCES INC.
ATTN: David Mchaina
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 27-AUG-19
Report Date: 10-SEP-19 12:25 (MT)
Version: FINAL

Client Phone: 705-929-5245

Certificate of Analysis

Lab Work Order #: L2336229
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Amanda Loesch
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2336229-1 3134-BL0034-60M Sampled By: Client on 22-AUG-19 @ 10:40 Matrix: Ground Water							
Physical Tests							
Conductivity	519		2.0	uS/cm		29-AUG-19	R4777566
Hardness (as CaCO3)	271		0.50	mg/L		06-SEP-19	
pH	7.92		0.10	pH		29-AUG-19	R4777566
Total Suspended Solids	7.9		2.0	mg/L		27-AUG-19	R4771730
Total Dissolved Solids	362		20	mg/L		27-AUG-19	R4773270
Anions and Nutrients							
Acidity (as CaCO3)	3.6	DLIS	1.0	mg/L		06-SEP-19	R4785330
Alkalinity, Total (as CaCO3)	379		1.0	mg/L		29-AUG-19	R4777566
Ammonia, Total (as N)	0.382		0.020	mg/L		29-AUG-19	R4776188
Bromide (Br)	<0.10		0.10	mg/L		27-AUG-19	R4771071
Chloride (Cl)	1.09		0.10	mg/L		28-AUG-19	R4775829
Fluoride (F)	0.184		0.020	mg/L		27-AUG-19	R4771071
Nitrate (as N)	<0.020		0.020	mg/L		27-AUG-19	R4771071
Nitrite (as N)	<0.010		0.010	mg/L		27-AUG-19	R4771071
Phosphorus (P)-Total	0.0724		0.0030	mg/L	28-AUG-19	29-AUG-19	R4776916
Silica, Reactive (as SiO2)	19.4		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	13.8		0.30	mg/L		27-AUG-19	R4771071
Total Metals							
Aluminum (Al)-Total	0.0590		0.0030	mg/L	28-AUG-19	29-AUG-19	R4777975
Antimony (Sb)-Total	0.00060		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Arsenic (As)-Total	0.0535		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Barium (Ba)-Total	0.205		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Beryllium (Be)-Total	0.00256		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Boron (B)-Total	0.012		0.010	mg/L	28-AUG-19	30-AUG-19	R4781961
Cadmium (Cd)-Total	0.0000140		0.0000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Calcium (Ca)-Total	90.4		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Cesium (Cs)-Total	0.000364		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Chromium (Cr)-Total	0.00296		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Cobalt (Co)-Total	0.00472		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Copper (Cu)-Total	0.0570		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Iron (Fe)-Total	8.27		0.010	mg/L	28-AUG-19	29-AUG-19	R4777975
Lead (Pb)-Total	0.00142		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Lithium (Li)-Total	0.0037		0.0010	mg/L	28-AUG-19	29-AUG-19	R4777975
Magnesium (Mg)-Total	14.4		0.0050	mg/L	28-AUG-19	29-AUG-19	R4777975
Manganese (Mn)-Total	1.05		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Molybdenum (Mo)-Total	0.00533		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Nickel (Ni)-Total	0.00528		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Phosphorus (P)-Total	0.067		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Potassium (K)-Total	1.72		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Rubidium (Rb)-Total	0.00182		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2336229-1 3134-BL0034-60M Sampled By: Client on 22-AUG-19 @ 10:40 Matrix: Ground Water							
Total Metals							
Selenium (Se)-Total	0.000102		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Silicon (Si)-Total	9.00		0.10	mg/L	28-AUG-19	29-AUG-19	R4777975
Silver (Ag)-Total	0.000016		0.000010	mg/L	28-AUG-19	30-AUG-19	R4781961
Sodium (Na)-Total	2.18		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Strontium (Sr)-Total	0.448		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975
Sulfur (S)-Total	5.13		0.50	mg/L	28-AUG-19	29-AUG-19	R4777975
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Thorium (Th)-Total	0.00041		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Tin (Sn)-Total	<0.00010		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Titanium (Ti)-Total	0.0128		0.00030	mg/L	28-AUG-19	29-AUG-19	R4777975
Tungsten (W)-Total	0.00071		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Uranium (U)-Total	0.000407		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Vanadium (V)-Total	0.00757		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Zinc (Zn)-Total	0.382		0.0030	mg/L	28-AUG-19	29-AUG-19	R4777975
Zirconium (Zr)-Total	0.0115		0.000060	mg/L	28-AUG-19	29-AUG-19	R4777975
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0365		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00036		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.0385		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.174		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	0.00202		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	0.011		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.0000084		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	86.8		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000323		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00147		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00438		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.0219		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	5.31		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	0.000535		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0033		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	13.1		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.996		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00478		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00482		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	1.74		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00177		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2336229-1 3134-BL0034-60M Sampled By: Client on 22-AUG-19 @ 10:40 Matrix: Ground Water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000071		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	8.96		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	0.000016		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	2.00		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	0.415		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	5.06		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	0.00030		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	0.00111	DTC	0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	0.00917		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00055		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000349		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	0.00538		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.372		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.00948		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2336229-2 3134-BL0034-138M Sampled By: Client on 22-AUG-19 @ 13:40 Matrix: Ground Water							
Physical Tests							
Conductivity	521		2.0	uS/cm		29-AUG-19	R4777566
Hardness (as CaCO3)	271		0.50	mg/L		03-SEP-19	
pH	7.93		0.10	pH		29-AUG-19	R4777566
Total Suspended Solids	8.4		2.0	mg/L		27-AUG-19	R4771730
Total Dissolved Solids	368		20	mg/L		27-AUG-19	R4773270
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		05-SEP-19	R4785228
Alkalinity, Total (as CaCO3)	398		1.0	mg/L		29-AUG-19	R4777566
Ammonia, Total (as N)	0.364		0.020	mg/L		29-AUG-19	R4776188
Bromide (Br)	<0.10		0.10	mg/L		27-AUG-19	R4771071
Chloride (Cl)	0.56		0.10	mg/L		28-AUG-19	R4775829
Fluoride (F)	0.147		0.020	mg/L		27-AUG-19	R4771071
Nitrate (as N)	0.030		0.020	mg/L		27-AUG-19	R4771071
Nitrite (as N)	<0.010		0.010	mg/L		27-AUG-19	R4771071
Phosphorus (P)-Total	0.0838		0.0030	mg/L	28-AUG-19	29-AUG-19	R4776916
Silica, Reactive (as SiO2)	19.4		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	13.6		0.30	mg/L		27-AUG-19	R4771071
Total Metals							
Aluminum (Al)-Total	0.0792		0.0030	mg/L	28-AUG-19	29-AUG-19	R4777975
Antimony (Sb)-Total	0.00129		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Arsenic (As)-Total	0.0615		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Barium (Ba)-Total	0.207		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2336229-2 3134-BL0034-138M Sampled By: Client on 22-AUG-19 @ 13:40 Matrix: Ground Water							
Total Metals							
Beryllium (Be)-Total	0.00441		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Boron (B)-Total	0.012		0.010	mg/L	28-AUG-19	30-AUG-19	R4781961
Cadmium (Cd)-Total	0.0000178		0.0000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Calcium (Ca)-Total	92.1		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Cesium (Cs)-Total	0.000475		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Chromium (Cr)-Total	0.00361		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Cobalt (Co)-Total	0.00655		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Copper (Cu)-Total	0.0754		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Iron (Fe)-Total	9.03		0.010	mg/L	28-AUG-19	29-AUG-19	R4777975
Lead (Pb)-Total	0.00275		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Lithium (Li)-Total	0.0036		0.0010	mg/L	28-AUG-19	29-AUG-19	R4777975
Magnesium (Mg)-Total	13.7		0.0050	mg/L	28-AUG-19	29-AUG-19	R4777975
Manganese (Mn)-Total	1.05		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Molybdenum (Mo)-Total	0.00686		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Nickel (Ni)-Total	0.00772		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Phosphorus (P)-Total	0.086		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Potassium (K)-Total	1.72		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Rubidium (Rb)-Total	0.00192		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975
Selenium (Se)-Total	0.000066		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Silicon (Si)-Total	8.97		0.10	mg/L	28-AUG-19	29-AUG-19	R4777975
Silver (Ag)-Total	0.000016		0.000010	mg/L	28-AUG-19	30-AUG-19	R4781961
Sodium (Na)-Total	2.05		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Strontium (Sr)-Total	0.503		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975
Sulfur (S)-Total	5.15		0.50	mg/L	28-AUG-19	29-AUG-19	R4777975
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Thorium (Th)-Total	0.00043		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Tin (Sn)-Total	<0.00010		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Titanium (Ti)-Total	0.0143		0.00030	mg/L	28-AUG-19	29-AUG-19	R4777975
Tungsten (W)-Total	0.00075		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Uranium (U)-Total	0.000440		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Vanadium (V)-Total	0.00807		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Zinc (Zn)-Total	0.379		0.0030	mg/L	28-AUG-19	29-AUG-19	R4777975
Zirconium (Zr)-Total	0.0119		0.000060	mg/L	28-AUG-19	29-AUG-19	R4777975
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0365		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00083		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.0418		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.175		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2336229-2 3134-BL0034-138M Sampled By: Client on 22-AUG-19 @ 13:40 Matrix: Ground Water							
Dissolved Metals							
Beryllium (Be)-Dissolved	0.00364		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	0.011		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.0000103		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	87.1		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000419		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00142		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00598		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.0290		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	5.72		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	0.00115		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0032		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	13.1		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.999		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00607		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00692		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	1.71		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00194		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	0.000086		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	8.99		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	0.000013		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	1.92		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	0.487		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	5.12		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	0.00033		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	0.00903		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00052		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000371		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	0.00555		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.362		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.00975		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2336229-3 3134-BL0034-288M Sampled By: Client on 22-AUG-19 @ 16:45 Matrix: Ground Water							
Physical Tests							
Conductivity	606		2.0	uS/cm		29-AUG-19	R4777566
Hardness (as CaCO3)	296		0.50	mg/L		03-SEP-19	
pH	7.92		0.10	pH		29-AUG-19	R4777566

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2336229-3 3134-BL0034-288M Sampled By: Client on 22-AUG-19 @ 16:45 Matrix: Ground Water							
Physical Tests							
Total Suspended Solids	93.7		2.0	mg/L		27-AUG-19	R4771730
Total Dissolved Solids	385		20	mg/L		27-AUG-19	R4773270
Anions and Nutrients							
Acidity (as CaCO3)	2.9	DLIS	1.0	mg/L		06-SEP-19	R4785330
Alkalinity, Total (as CaCO3)	388		1.0	mg/L		29-AUG-19	R4777566
Ammonia, Total (as N)	0.543		0.020	mg/L		29-AUG-19	R4776188
Bromide (Br)	<0.10		0.10	mg/L		27-AUG-19	R4771071
Chloride (Cl)	1.42		0.10	mg/L		27-AUG-19	R4771071
Fluoride (F)	0.102		0.020	mg/L		27-AUG-19	R4771071
Nitrate (as N)	0.024		0.020	mg/L		27-AUG-19	R4771071
Nitrite (as N)	<0.010		0.010	mg/L		27-AUG-19	R4771071
Phosphorus (P)-Total	0.121		0.030	mg/L	28-AUG-19	29-AUG-19	R4776916
Silica, Reactive (as SiO2)	15.6		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	20.8		0.30	mg/L		27-AUG-19	R4771071
Total Metals							
Aluminum (Al)-Total	0.271		0.0030	mg/L	28-AUG-19	29-AUG-19	R4777975
Antimony (Sb)-Total	0.00159		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Arsenic (As)-Total	0.0435		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Barium (Ba)-Total	0.356		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Beryllium (Be)-Total	0.00528		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Boron (B)-Total	0.015		0.010	mg/L	28-AUG-19	30-AUG-19	R4781961
Cadmium (Cd)-Total	0.0000430		0.0000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Calcium (Ca)-Total	97.6		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Cesium (Cs)-Total	0.000770		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Chromium (Cr)-Total	0.00426		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Cobalt (Co)-Total	0.00558		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Copper (Cu)-Total	0.177		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Iron (Fe)-Total	6.04		0.010	mg/L	28-AUG-19	29-AUG-19	R4777975
Lead (Pb)-Total	0.00654		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Lithium (Li)-Total	0.0036		0.0010	mg/L	28-AUG-19	29-AUG-19	R4777975
Magnesium (Mg)-Total	18.0		0.0050	mg/L	28-AUG-19	29-AUG-19	R4777975
Manganese (Mn)-Total	0.799		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Molybdenum (Mo)-Total	0.00709		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Nickel (Ni)-Total	0.00640		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Phosphorus (P)-Total	0.116		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Potassium (K)-Total	2.15		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Rubidium (Rb)-Total	0.00307		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975
Selenium (Se)-Total	0.000084		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Silicon (Si)-Total	7.63		0.10	mg/L	28-AUG-19	29-AUG-19	R4777975
Silver (Ag)-Total	0.000018		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2336229-3 3134-BL0034-288M Sampled By: Client on 22-AUG-19 @ 16:45 Matrix: Ground Water							
Total Metals							
Sodium (Na)-Total	4.20		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Strontium (Sr)-Total	2.69		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975
Sulfur (S)-Total	8.16		0.50	mg/L	28-AUG-19	29-AUG-19	R4777975
Tellurium (Te)-Total	0.00028		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975
Thallium (Tl)-Total	0.000019		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Thorium (Th)-Total	0.00027		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Tin (Sn)-Total	<0.00010		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Titanium (Ti)-Total	0.0185		0.00030	mg/L	28-AUG-19	29-AUG-19	R4777975
Tungsten (W)-Total	0.00287		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Uranium (U)-Total	0.000425		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Vanadium (V)-Total	0.00638		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Zinc (Zn)-Total	0.345		0.0030	mg/L	28-AUG-19	29-AUG-19	R4777975
Zirconium (Zr)-Total	0.0103		0.000060	mg/L	28-AUG-19	29-AUG-19	R4777975
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0280		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00113		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.0189		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.301		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	0.00263		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	0.013		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.0000064		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	90.5		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000528		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00127		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00322		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.00391		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	2.47		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	0.000427		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0027		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	17.0		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.643		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00644		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00418		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	2.12		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00267		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	0.000089		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	7.15		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	0.000011		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2336229-3 3134-BL0034-288M Sampled By: Client on 22-AUG-19 @ 16:45 Matrix: Ground Water							
Dissolved Metals							
Sodium (Na)-Dissolved	3.83		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	2.52		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	8.19		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	0.00012		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	0.00362		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00189		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000279		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	0.00345		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.194		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.00767		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2336229-4 3134-BL0034-448M Sampled By: Client on 22-AUG-19 @ 11:10 Matrix: Ground Water							
Physical Tests							
Conductivity	648		2.0	uS/cm		29-AUG-19	R4777566
Hardness (as CaCO3)	308		0.50	mg/L		06-SEP-19	
pH	8.01		0.10	pH		29-AUG-19	R4777566
Total Suspended Solids	9.7		2.0	mg/L		27-AUG-19	R4771730
Total Dissolved Solids	380		20	mg/L		27-AUG-19	R4773270
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		31-AUG-19	R4779488
Alkalinity, Total (as CaCO3)	432		1.0	mg/L		29-AUG-19	R4777566
Ammonia, Total (as N)	0.591		0.020	mg/L		29-AUG-19	R4776188
Bromide (Br)	<0.10		0.10	mg/L		27-AUG-19	R4771071
Chloride (Cl)	2.97		0.10	mg/L		27-AUG-19	R4771071
Fluoride (F)	0.114		0.020	mg/L		27-AUG-19	R4771071
Nitrate (as N)	6.26		0.020	mg/L		27-AUG-19	R4771071
Nitrite (as N)	<0.010		0.010	mg/L		27-AUG-19	R4771071
Phosphorus (P)-Total	0.0439		0.0030	mg/L	28-AUG-19	29-AUG-19	R4776916
Silica, Reactive (as SiO2)	14.7		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	26.8		0.30	mg/L		27-AUG-19	R4771071
Total Metals							
Aluminum (Al)-Total	0.196		0.0030	mg/L	28-AUG-19	29-AUG-19	R4777975
Antimony (Sb)-Total	0.00091		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Arsenic (As)-Total	0.0162		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Barium (Ba)-Total	0.351		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Beryllium (Be)-Total	0.00329		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Boron (B)-Total	0.016		0.010	mg/L	28-AUG-19	30-AUG-19	R4781961

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2336229-4 3134-BL0034-448M Sampled By: Client on 22-AUG-19 @ 11:10 Matrix: Ground Water							
Total Metals							
Cadmium (Cd)-Total	0.0000237		0.0000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Calcium (Ca)-Total	102		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Cesium (Cs)-Total	0.000666		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Chromium (Cr)-Total	0.00374		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Cobalt (Co)-Total	0.00217		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Copper (Cu)-Total	0.0542		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Iron (Fe)-Total	2.70		0.010	mg/L	28-AUG-19	29-AUG-19	R4777975
Lead (Pb)-Total	0.00243		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Lithium (Li)-Total	0.0034		0.0010	mg/L	28-AUG-19	29-AUG-19	R4777975
Magnesium (Mg)-Total	19.5		0.0050	mg/L	28-AUG-19	29-AUG-19	R4777975
Manganese (Mn)-Total	0.594		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Molybdenum (Mo)-Total	0.00306		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Nickel (Ni)-Total	0.00214		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Phosphorus (P)-Total	0.058		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Potassium (K)-Total	2.31		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Rubidium (Rb)-Total	0.00315		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975
Selenium (Se)-Total	<0.000050		0.000050	mg/L	28-AUG-19	29-AUG-19	R4777975
Silicon (Si)-Total	7.02		0.10	mg/L	28-AUG-19	29-AUG-19	R4777975
Silver (Ag)-Total	0.000024		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Sodium (Na)-Total	4.82		0.050	mg/L	28-AUG-19	29-AUG-19	R4777975
Strontium (Sr)-Total	3.27		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975
Sulfur (S)-Total	9.59		0.50	mg/L	28-AUG-19	29-AUG-19	R4777975
Tellurium (Te)-Total	0.00040		0.00020	mg/L	28-AUG-19	29-AUG-19	R4777975
Thallium (Tl)-Total	0.000013		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Thorium (Th)-Total	0.00015		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Tin (Sn)-Total	<0.00010		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Titanium (Ti)-Total	0.0114		0.00030	mg/L	28-AUG-19	29-AUG-19	R4777975
Tungsten (W)-Total	0.00294		0.00010	mg/L	28-AUG-19	29-AUG-19	R4777975
Uranium (U)-Total	0.000389		0.000010	mg/L	28-AUG-19	29-AUG-19	R4777975
Vanadium (V)-Total	0.00427		0.00050	mg/L	28-AUG-19	29-AUG-19	R4777975
Zinc (Zn)-Total	0.169		0.0030	mg/L	28-AUG-19	29-AUG-19	R4777975
Zirconium (Zr)-Total	0.00883		0.000060	mg/L	28-AUG-19	29-AUG-19	R4777975
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0280		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00048		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.0106		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.319		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	0.00256		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	0.015		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2336229-4 3134-BL0034-448M Sampled By: Client on 22-AUG-19 @ 11:10 Matrix: Ground Water							
Dissolved Metals							
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	92.9		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000515		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00119		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00118		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.00198		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	1.71		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	0.000257		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0028		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	18.5		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.521		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00246		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00125		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	2.23		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00285		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	0.000125		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	6.67		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	0.000012		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	4.51		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	3.14		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	9.60		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	0.00094	DTC	0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	0.00243		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00234		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000238		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	0.00302		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.0997		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.00775		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Acidity (as CaCO3)	B	L2336229-2
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2336229-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2336229-1, -2, -3, -4
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2336229-1, -2, -3, -4
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2336229-1, -2, -3, -4
Matrix Spike	Potassium (K)-Dissolved	MS-B	L2336229-1, -2, -3, -4
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2336229-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2336229-1, -2, -3, -4
Matrix Spike	Silica, Reactive (as SiO2)	MS-B	L2336229-1, -2, -3, -4

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
DLIS	Detection Limit Adjusted: Insufficient Sample
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 Acidity

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

Samples of industrial wastes, acid mine drainage, or other solutions that contain appreciable amounts of hydrolyzable metal ions such as aluminum, iron, and manganese may require hot peroxide treatment to ensure oxidation and hydrolysis of reduced forms of polyvalent cations. Acidity results may be highly variable if this procedure is not followed. Results in this report for 'Acidity (as CaCO3)' have not been peroxide treated.

ALK-TITR-VA	Water	Alkalinity Species by Titration	APHA 2320 Alkalinity

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-COL-TB	Water	Ammonia by Discrete Analyzer	APHA 4500-NH3 G. (modified)

Ammonia in aqueous matrices is analyzed using discrete analyzer with colourimetric detection.

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Reference Information

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H pH Value
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

SIO2-COL-WP Water Reactive Silica by colour APHA 4500 SIO2
This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-TB Water Sulfate in Water by IC EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB Water Total Dissolved Solids APHA 2540 C (modified)
Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB Water Total Suspended Solids APHA 2540 D (modified)
Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS
Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: GOLD CANYON RESOURCES INC.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2
Contact: David Mchaina

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-PCT-VA	Water							
Batch R4779488								
WG3146586-3 LCS								
Acidity (as CaCO3)			104.0		%		85-115	31-AUG-19
WG3146586-1 MB								
Acidity (as CaCO3)			1.9		mg/L		2	31-AUG-19
Batch R4785228								
WG3152294-3 LCS								
Acidity (as CaCO3)			112.7		%		85-115	05-SEP-19
WG3152294-1 MB								
Acidity (as CaCO3)			2.9	B	mg/L		2	05-SEP-19
ALK-TITR-VA	Water							
Batch R4777566								
WG3146579-3 LCS								
Alkalinity, Total (as CaCO3)			109.5		%		85-115	29-AUG-19
WG3146579-1 MB								
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	29-AUG-19
BR-IC-N-TB	Water							
Batch R4771071								
WG3144854-2 LCS								
Bromide (Br)			93.7		%		85-115	27-AUG-19
WG3144854-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	27-AUG-19
CL-L-IC-N-TB	Water							
Batch R4771071								
WG3144854-2 LCS								
Chloride (Cl)			104.6		%		90-110	27-AUG-19
WG3144854-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	27-AUG-19
Batch R4775829								
WG3146207-6 LCS								
Chloride (Cl)			105.2		%		90-110	28-AUG-19
WG3146207-5 MB								
Chloride (Cl)			<0.10		mg/L		0.1	28-AUG-19
EC-PCT-VA	Water							
Batch R4777566								
WG3146579-3 LCS								
Conductivity			104.9		%		90-110	29-AUG-19
WG3146579-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-PCT-VA	Water							
Batch R4777566								
WG3146579-1 MB								
Conductivity			<2.0		uS/cm		2	29-AUG-19
F-IC-N-TB	Water							
Batch R4771071								
WG3144854-2 LCS								
Fluoride (F)			102.2		%		90-110	27-AUG-19
WG3144854-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	27-AUG-19
MET-D-CCMS-TB	Water							
Batch R4782072								
WG3148256-2 LCS								
Aluminum (Al)-Dissolved			104.8		%		80-120	30-AUG-19
Antimony (Sb)-Dissolved			105.9		%		80-120	30-AUG-19
Arsenic (As)-Dissolved			106.1		%		80-120	30-AUG-19
Barium (Ba)-Dissolved			106.2		%		80-120	30-AUG-19
Beryllium (Be)-Dissolved			98.6		%		80-120	30-AUG-19
Bismuth (Bi)-Dissolved			101.7		%		80-120	30-AUG-19
Boron (B)-Dissolved			88.3		%		80-120	30-AUG-19
Cadmium (Cd)-Dissolved			105.5		%		80-120	30-AUG-19
Calcium (Ca)-Dissolved			105.0		%		80-120	30-AUG-19
Cesium (Cs)-Dissolved			107.6		%		80-120	30-AUG-19
Chromium (Cr)-Dissolved			102.1		%		80-120	30-AUG-19
Cobalt (Co)-Dissolved			105.1		%		80-120	30-AUG-19
Copper (Cu)-Dissolved			103.4		%		80-120	30-AUG-19
Iron (Fe)-Dissolved			108.2		%		80-120	30-AUG-19
Lead (Pb)-Dissolved			105.3		%		80-120	30-AUG-19
Lithium (Li)-Dissolved			92.9		%		80-120	30-AUG-19
Magnesium (Mg)-Dissolved			103.2		%		80-120	30-AUG-19
Manganese (Mn)-Dissolved			104.4		%		80-120	30-AUG-19
Molybdenum (Mo)-Dissolved			107.0		%		80-120	30-AUG-19
Nickel (Ni)-Dissolved			101.8		%		80-120	30-AUG-19
Phosphorus (P)-Dissolved			109.6		%		80-120	30-AUG-19
Potassium (K)-Dissolved			107.1		%		80-120	30-AUG-19
Rubidium (Rb)-Dissolved			104.9		%		80-120	30-AUG-19
Selenium (Se)-Dissolved			106.3		%		80-120	30-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4782072								
WG3148256-2 LCS								
Silicon (Si)-Dissolved			106.0		%		80-120	30-AUG-19
Silver (Ag)-Dissolved			105.2		%		80-120	30-AUG-19
Sodium (Na)-Dissolved			102.8		%		80-120	30-AUG-19
Strontium (Sr)-Dissolved			103.0		%		80-120	30-AUG-19
Sulfur (S)-Dissolved			110.3		%		80-120	30-AUG-19
Tellurium (Te)-Dissolved			104.7		%		80-120	30-AUG-19
Thallium (Tl)-Dissolved			105.2		%		80-120	30-AUG-19
Thorium (Th)-Dissolved			101.4		%		80-120	30-AUG-19
Tin (Sn)-Dissolved			106.9		%		80-120	30-AUG-19
Titanium (Ti)-Dissolved			103.8		%		80-120	30-AUG-19
Tungsten (W)-Dissolved			105.8		%		80-120	30-AUG-19
Uranium (U)-Dissolved			99.1		%		80-120	30-AUG-19
Vanadium (V)-Dissolved			106.0		%		80-120	30-AUG-19
Zinc (Zn)-Dissolved			105.9		%		80-120	30-AUG-19
Zirconium (Zr)-Dissolved			111.5		%		80-120	30-AUG-19
WG3148256-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	30-AUG-19
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Boron (B)-Dissolved			<0.010		mg/L		0.01	30-AUG-19
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	30-AUG-19
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	30-AUG-19
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	30-AUG-19
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	30-AUG-19
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4782072								
WG3148256-1 MB								
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	30-AUG-19
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Potassium (K)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	30-AUG-19
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	30-AUG-19
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	30-AUG-19
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	30-AUG-19
Zirconium (Zr)-Dissolved			<0.000060		mg/L		0.00006	30-AUG-19
MET-T-CCMS-TB	Water							
Batch R4777975								
WG3145468-2 LCS								
Aluminum (Al)-Total			102.6		%		80-120	29-AUG-19
Antimony (Sb)-Total			104.7		%		80-120	29-AUG-19
Arsenic (As)-Total			97.5		%		80-120	29-AUG-19
Barium (Ba)-Total			110.6		%		80-120	29-AUG-19
Beryllium (Be)-Total			101.8		%		80-120	29-AUG-19
Bismuth (Bi)-Total			103.5		%		80-120	29-AUG-19
Boron (B)-Total			91.1		%		80-120	29-AUG-19
Cadmium (Cd)-Total			99.0		%		80-120	29-AUG-19
Calcium (Ca)-Total			98.6		%		80-120	29-AUG-19
Cesium (Cs)-Total			103.6		%		80-120	29-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4777975								
WG3145468-2 LCS								
Chromium (Cr)-Total			101.6		%		80-120	29-AUG-19
Cobalt (Co)-Total			99.6		%		80-120	29-AUG-19
Copper (Cu)-Total			97.4		%		80-120	29-AUG-19
Iron (Fe)-Total			102.4		%		80-120	29-AUG-19
Lead (Pb)-Total			102.2		%		80-120	29-AUG-19
Lithium (Li)-Total			102.6		%		80-120	29-AUG-19
Magnesium (Mg)-Total			105.3		%		80-120	29-AUG-19
Manganese (Mn)-Total			102.1		%		80-120	29-AUG-19
Molybdenum (Mo)-Total			100.5		%		80-120	29-AUG-19
Nickel (Ni)-Total			97.4		%		80-120	29-AUG-19
Phosphorus (P)-Total			105.1		%		80-120	29-AUG-19
Potassium (K)-Total			101.0		%		80-120	29-AUG-19
Rubidium (Rb)-Total			97.3		%		80-120	29-AUG-19
Selenium (Se)-Total			101.3		%		80-120	29-AUG-19
Silicon (Si)-Total			104.1		%		80-120	29-AUG-19
Silver (Ag)-Total			102.6		%		80-120	29-AUG-19
Sodium (Na)-Total			101.8		%		80-120	29-AUG-19
Strontium (Sr)-Total			95.0		%		80-120	29-AUG-19
Sulfur (S)-Total			102.7		%		80-120	29-AUG-19
Tellurium (Te)-Total			96.3		%		80-120	29-AUG-19
Thallium (Tl)-Total			102.2		%		80-120	29-AUG-19
Thorium (Th)-Total			96.7		%		80-120	29-AUG-19
Tin (Sn)-Total			102.1		%		80-120	29-AUG-19
Titanium (Ti)-Total			99.2		%		80-120	29-AUG-19
Tungsten (W)-Total			103.2		%		80-120	29-AUG-19
Uranium (U)-Total			89.9		%		80-120	29-AUG-19
Vanadium (V)-Total			100.6		%		80-120	29-AUG-19
Zinc (Zn)-Total			98.8		%		80-120	29-AUG-19
Zirconium (Zr)-Total			103.1		%		80-120	29-AUG-19
WG3145468-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	29-AUG-19
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	29-AUG-19
Arsenic (As)-Total			<0.00010		mg/L		0.0001	29-AUG-19
Barium (Ba)-Total			<0.00010		mg/L		0.0001	29-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4777975								
WG3145468-1 MB								
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	29-AUG-19
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	29-AUG-19
Boron (B)-Total			<0.010		mg/L		0.01	29-AUG-19
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	29-AUG-19
Calcium (Ca)-Total			<0.050		mg/L		0.05	29-AUG-19
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	29-AUG-19
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	29-AUG-19
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	29-AUG-19
Copper (Cu)-Total			<0.00050		mg/L		0.0005	29-AUG-19
Iron (Fe)-Total			<0.010		mg/L		0.01	29-AUG-19
Lead (Pb)-Total			<0.000050		mg/L		0.00005	29-AUG-19
Lithium (Li)-Total			<0.0010		mg/L		0.001	29-AUG-19
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	29-AUG-19
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	29-AUG-19
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	29-AUG-19
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	29-AUG-19
Phosphorus (P)-Total			<0.050		mg/L		0.05	29-AUG-19
Potassium (K)-Total			<0.050		mg/L		0.05	29-AUG-19
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	29-AUG-19
Selenium (Se)-Total			<0.000050		mg/L		0.00005	29-AUG-19
Silicon (Si)-Total			<0.10		mg/L		0.1	29-AUG-19
Silver (Ag)-Total			<0.000010		mg/L		0.00001	29-AUG-19
Sodium (Na)-Total			<0.050		mg/L		0.05	29-AUG-19
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	29-AUG-19
Sulfur (S)-Total			<0.50		mg/L		0.5	29-AUG-19
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	29-AUG-19
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	29-AUG-19
Thorium (Th)-Total			<0.00010		mg/L		0.0001	29-AUG-19
Tin (Sn)-Total			<0.00010		mg/L		0.0001	29-AUG-19
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	29-AUG-19
Tungsten (W)-Total			<0.00010		mg/L		0.0001	29-AUG-19
Uranium (U)-Total			<0.000010		mg/L		0.00001	29-AUG-19
Vanadium (V)-Total			<0.00050		mg/L		0.0005	29-AUG-19
Zinc (Zn)-Total			<0.0030		mg/L		0.003	29-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4777975								
WG3145468-1 MB								
Zirconium (Zr)-Total			<0.000060		mg/L		0.00006	29-AUG-19
NH3-COL-TB	Water							
Batch R4776188								
WG3146983-3 DUP		**L2336229-1**						
Ammonia, Total (as N)		0.382	0.378		mg/L	1.2	20	29-AUG-19
WG3146983-2 LCS								
Ammonia, Total (as N)			98.7		%		85-115	29-AUG-19
WG3146983-1 MB								
Ammonia, Total (as N)			<0.020		mg/L		0.02	29-AUG-19
WG3146983-4 MS		**L2336229-2**						
Ammonia, Total (as N)			82.8		%		75-125	29-AUG-19
NO2-IC-N-TB	Water							
Batch R4771071								
WG3144854-2 LCS								
Nitrite (as N)			104.9		%		90-110	27-AUG-19
WG3144854-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	27-AUG-19
NO3-IC-N-TB	Water							
Batch R4771071								
WG3144854-2 LCS								
Nitrate (as N)			104.4		%		90-110	27-AUG-19
WG3144854-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	27-AUG-19
P-T-COL-TB	Water							
Batch R4776916								
WG3145455-3 DUP		**L2336229-3**						
Phosphorus (P)-Total		0.121	0.115		mg/L	5.2	20	29-AUG-19
WG3145455-2 LCS								
Phosphorus (P)-Total			106.3		%		80-120	29-AUG-19
WG3145455-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	29-AUG-19
WG3145455-4 MS		**L2336229-4**						
Phosphorus (P)-Total			87.6		%		70-130	29-AUG-19
PH-PCT-VA	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-PCT-VA	Water							
Batch R4777566								
WG3146579-2 CRM		**VA-PH7-BUF**						
pH			7.01		pH		6.9-7.1	29-AUG-19
SIO2-COL-WP	Water							
Batch R4783888								
WG3153058-2 LCS								
Silica, Reactive (as SiO2)			102.1		%		85-115	04-SEP-19
WG3153058-1 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	04-SEP-19
SO4-IC-N-TB	Water							
Batch R4771071								
WG3144854-2 LCS								
Sulfate (SO4)			106.9		%		90-110	27-AUG-19
WG3144854-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	27-AUG-19
TDS-TB	Water							
Batch R4773270								
WG3144951-2 LCS								
Total Dissolved Solids			94.8		%		85-115	27-AUG-19
WG3144951-1 MB								
Total Dissolved Solids			<10		mg/L		10	27-AUG-19
TSS-TB	Water							
Batch R4771730								
WG3144894-2 LCS								
Total Suspended Solids			100.5		%		85-115	27-AUG-19
WG3144894-1 MB								
Total Suspended Solids			<2.0		mg/L		2	27-AUG-19

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH by Meter (Automated)							
	1	22-AUG-19 10:40	29-AUG-19 14:21	0.25	172	hours	EHTR-FM
	2	22-AUG-19 13:40	29-AUG-19 14:21	0.25	169	hours	EHTR-FM
	3	22-AUG-19 16:45	29-AUG-19 14:21	0.25	166	hours	EHTR-FM
	4	22-AUG-19 11:10	29-AUG-19 14:21	0.25	171	hours	EHTR-FM
Anions and Nutrients							
Acidity by Automatic Titration							
	1	22-AUG-19 10:40	06-SEP-19 11:53	14	15	days	EHT
	3	22-AUG-19 16:45	06-SEP-19 11:53	14	15	days	EHT

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2336229 were received on 27-AUG-19 09:05.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2336229-COFC

COC Number: 17 -

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Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	Gold Canyon Resources Inc.	Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	David Mchaina	Quality Control (QC) Report with Report ☑ YES ☐ NO	PRIORITY (Business Days): 4 day [P4-20%] ☐ / 3 day [P3-25%] ☐ / 2 day [P2-50%] ☐
Phone:	519-241-9655	☐ Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E - 100%] ☐ / Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐
	Company address below will appear on the final report	Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:	1800-925 West Georgia Street	Email 1 or Fax: dmchaina@firstmininggold.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:	Vancouver, BC	Email 2: shila@firstmininggold.com	
Postal Code:	V6C 3L2	Email 3: glenn_ffc@ns.aliantzinc.ca	
Invoice To	Same as Report To ☑ YES ☐ NO	**Invoice Distribution**	
	Copy of Invoice with Report ☐ YES ☐ NO	Select Invoice Distribution: ☑ EMAIL ☑ MAIL ☐ FAX	
Company:		Email 1 or Fax	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	20864 / Q64154	AFE/Cost Center:	PO#
Job #:		Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	L2336229	ALS Contact:	Sampler:

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity	Total Metals	Dissolved Metals	Reactive Silica	F, Hardness, NO2, NO3, pH, SO4	Total Phosphorous, TSS	TDS	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-BL0034-60m	22-Aug-19	10:40	Ground Water		R	R	R	R	R	R	R		
	3134-BL0034-138m	22-Aug-19	13:40	Ground Water		R	R	R	R	R	R	R		
	3134-BL0034-288m	22-Aug-19	16:45	Ground Water		R	R	R	R	R	R	R		
	3134-BL0034-448m	23-Aug-19	11:10	Ground Water		R	R	R	R	R	R	R		

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐	SIF Observations	Yes ☑	No	☐
Ice Packs ☑	Ice Cubes ☐	Custody seal intact	Yes ☐	No	☐
Cooling Initiated	☑				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
8.6							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	08/23/19	Time:	Received by: SD	Date: Aug.27/19	Time: 9:05	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

SD

Client: Gold Canyon

Verified By	Date	Time
ET	04/27/19	11:07

Sample Layout Verification:

Verified By
ET

Labels Verification:

L2336229-COFC

NO P F/P

Sample #:		1-L1																
1L	Plastic																	
500mL	Plastic	2																
250mL	Plastic	2																
145mL	Plastic	2																
60mL	Plastic	1																
Micro																		
Toxicity Pall																		
1L	Glass																	
500mL	Glass																	
250mL	Glass																	
120mL	Glass	1																
60mL	Glass																	
40mL	Vial (Glass)																	
40mL	Methanol Vials																	
Soil Jar (120, 250 or 500mL)																		
Other:																		
Other:																		
Total Number of Bottles		6																

Trip/Travel/Field Blank Information

Solids Batch#:	Metals Batch#:	T:	D:
Routine Batch#:	Mercury Batch#:	T:	D:
BOD Batch#:	Cyanide Batch#:	T:	D:
Nutrients Batch#:	OGG Batch#:		
DOC/Carbon Batch#:	Phenols Batch#:		
VOC Batch#:			
Other:			

COOLER TRACKING

EPP		Coleman	
Small		Micro (5QT)	
Med		Sm(9QT)	
Lrg		Med(16QT)	
Micro Box		Lrg(28QT)	
		Lrg(48QT)	

GOLD CANYON RESOURCES INC.
ATTN: David Mchaina
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 29-AUG-19
Report Date: 12-SEP-19 12:13 (MT)
Version: FINAL

Client Phone: 705-929-5245

Certificate of Analysis

Lab Work Order #: L2338207
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Amanda Loesch
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-1 3134-BL0385-108M Sampled By: CLIENT on 24-AUG-19 @ 10:15 Matrix: Ground Water							
Physical Tests							
Conductivity	509		2.0	uS/cm		05-SEP-19	R4785228
Hardness (as CaCO3)	265		0.50	mg/L		04-SEP-19	
pH	7.55		0.10	pH		29-AUG-19	R4777648
Total Suspended Solids	3.9		2.0	mg/L		30-AUG-19	R4778887
Total Dissolved Solids	300		20	mg/L		30-AUG-19	R4778949
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		06-SEP-19	R4785330
Alkalinity, Total (as CaCO3)	281		1.0	mg/L		10-SEP-19	R4794232
Ammonia, Total (as N)	0.144		0.020	mg/L		30-AUG-19	R4778343
Bromide (Br)	<0.10		0.10	mg/L		30-AUG-19	R4779231
Chloride (Cl)	8.58		0.10	mg/L		30-AUG-19	R4779231
Fluoride (F)	0.059		0.020	mg/L		30-AUG-19	R4779231
Nitrate (as N)	<0.020		0.020	mg/L		30-AUG-19	R4779231
Nitrite (as N)	<0.010		0.010	mg/L		30-AUG-19	R4779231
Phosphorus (P)-Total	0.0069		0.0030	mg/L	31-AUG-19	03-SEP-19	R4781589
Silica, Reactive (as SiO2)	12.9		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	25.1		0.30	mg/L		30-AUG-19	R4779231
Total Metals							
Aluminum (Al)-Total	0.0448		0.0030	mg/L	30-AUG-19	03-SEP-19	R4782648
Antimony (Sb)-Total	0.00120		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Arsenic (As)-Total	0.00379		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Barium (Ba)-Total	0.136		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Beryllium (Be)-Total	0.00019		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Boron (B)-Total	0.019		0.010	mg/L	30-AUG-19	03-SEP-19	R4782648
Cadmium (Cd)-Total	0.0000165		0.0000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Calcium (Ca)-Total	88.5		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Cesium (Cs)-Total	0.000331		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Chromium (Cr)-Total	0.00161		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Cobalt (Co)-Total	0.00121		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Copper (Cu)-Total	0.00154		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Iron (Fe)-Total	1.56		0.010	mg/L	30-AUG-19	03-SEP-19	R4782648
Lead (Pb)-Total	0.000227		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Lithium (Li)-Total	0.0014		0.0010	mg/L	30-AUG-19	03-SEP-19	R4782648
Magnesium (Mg)-Total	16.2		0.0050	mg/L	30-AUG-19	03-SEP-19	R4782648
Manganese (Mn)-Total	0.316		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Molybdenum (Mo)-Total	0.00448		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Nickel (Ni)-Total	0.00207		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Phosphorus (P)-Total	<0.050		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Potassium (K)-Total	1.16		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Rubidium (Rb)-Total	0.00202		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-1 3134-BL0385-108M Sampled By: CLIENT on 24-AUG-19 @ 10:15 Matrix: Ground Water							
Total Metals							
Selenium (Se)-Total	0.000083		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Silicon (Si)-Total	5.71		0.10	mg/L	30-AUG-19	03-SEP-19	R4782648
Silver (Ag)-Total	<0.000010		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Sodium (Na)-Total	3.95		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Strontium (Sr)-Total	1.43		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Sulfur (S)-Total	9.18		0.50	mg/L	30-AUG-19	03-SEP-19	R4782648
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Thorium (Th)-Total	<0.00010		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Tin (Sn)-Total	<0.00010		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Titanium (Ti)-Total	<0.0015	DLM	0.0015	mg/L	30-AUG-19	03-SEP-19	R4782648
Tungsten (W)-Total	0.00106		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Uranium (U)-Total	0.000290		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Vanadium (V)-Total	<0.00050		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Zinc (Zn)-Total	0.0527		0.0030	mg/L	30-AUG-19	03-SEP-19	R4782648
Zirconium (Zr)-Total	0.000840		0.000060	mg/L	30-AUG-19	03-SEP-19	R4782648
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0049		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00086		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.00223		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.132		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	0.00016		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	0.016		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.0000128		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	82.2		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000316		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00114		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	0.951		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0019		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	14.6		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.272		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00488		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00170		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	1.14		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00194		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-1 3134-BL0385-108M Sampled By: CLIENT on 24-AUG-19 @ 10:15 Matrix: Ground Water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000105		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	5.55		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	3.65		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	1.29		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	9.56		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00130		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000279		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.0498		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.000652		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2338207-2 3134-BLDUP-1 Sampled By: CLIENT on 24-AUG-19 @ 00:01 Matrix: Ground Water							
Physical Tests							
Conductivity	502		2.0	uS/cm		05-SEP-19	R4785228
Hardness (as CaCO3)	266		0.50	mg/L		04-SEP-19	
pH	7.49		0.10	pH		29-AUG-19	R4777648
Total Suspended Solids	5.9		2.0	mg/L		30-AUG-19	R4778887
Total Dissolved Solids	317		20	mg/L		30-AUG-19	R4778949
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		06-SEP-19	R4785330
Alkalinity, Total (as CaCO3)	258		1.0	mg/L		10-SEP-19	R4794232
Ammonia, Total (as N)	0.118		0.020	mg/L		30-AUG-19	R4778343
Bromide (Br)	<0.10		0.10	mg/L		30-AUG-19	R4779231
Chloride (Cl)	8.65		0.10	mg/L		30-AUG-19	R4779231
Fluoride (F)	0.059		0.020	mg/L		30-AUG-19	R4779231
Nitrate (as N)	<0.020		0.020	mg/L		30-AUG-19	R4779231
Nitrite (as N)	<0.010		0.010	mg/L		30-AUG-19	R4779231
Phosphorus (P)-Total	0.0079		0.0030	mg/L	31-AUG-19	03-SEP-19	R4781589
Silica, Reactive (as SiO2)	12.4		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	25.5		0.30	mg/L		30-AUG-19	R4779231
Total Metals							
Aluminum (Al)-Total	0.0476		0.0030	mg/L	30-AUG-19	03-SEP-19	R4782648
Antimony (Sb)-Total	0.00127		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Arsenic (As)-Total	0.00399		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Barium (Ba)-Total	0.140		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-2 3134-BLDUP-1 Sampled By: CLIENT on 24-AUG-19 @ 00:01 Matrix: Ground Water							
Total Metals							
Beryllium (Be)-Total	0.00023		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Boron (B)-Total	0.020		0.010	mg/L	30-AUG-19	03-SEP-19	R4782648
Cadmium (Cd)-Total	0.0000175		0.0000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Calcium (Ca)-Total	91.0		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Cesium (Cs)-Total	0.000342		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Chromium (Cr)-Total	0.00159		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Cobalt (Co)-Total	0.00125		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Copper (Cu)-Total	0.00184		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Iron (Fe)-Total	1.58		0.010	mg/L	30-AUG-19	03-SEP-19	R4782648
Lead (Pb)-Total	0.000199		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Lithium (Li)-Total	0.0016		0.0010	mg/L	30-AUG-19	03-SEP-19	R4782648
Magnesium (Mg)-Total	16.3		0.0050	mg/L	30-AUG-19	03-SEP-19	R4782648
Manganese (Mn)-Total	0.312		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Molybdenum (Mo)-Total	0.00468		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Nickel (Ni)-Total	0.00210		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Phosphorus (P)-Total	<0.050		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Potassium (K)-Total	1.18		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Rubidium (Rb)-Total	0.00203		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Selenium (Se)-Total	0.000054		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Silicon (Si)-Total	5.81		0.10	mg/L	30-AUG-19	03-SEP-19	R4782648
Silver (Ag)-Total	<0.000010		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Sodium (Na)-Total	4.13		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Strontium (Sr)-Total	1.51		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Sulfur (S)-Total	9.26		0.50	mg/L	30-AUG-19	03-SEP-19	R4782648
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Thorium (Th)-Total	<0.00010		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Tin (Sn)-Total	<0.00010		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Titanium (Ti)-Total	0.00110		0.00030	mg/L	30-AUG-19	03-SEP-19	R4782648
Tungsten (W)-Total	0.00108		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Uranium (U)-Total	0.000300		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Vanadium (V)-Total	<0.00050		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Zinc (Zn)-Total	0.0545		0.0030	mg/L	30-AUG-19	03-SEP-19	R4782648
Zirconium (Zr)-Total	0.000905		0.000060	mg/L	30-AUG-19	03-SEP-19	R4782648
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0054		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00083		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.00223		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.133		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-2 3134-BLDUP-1 Sampled By: CLIENT on 24-AUG-19 @ 00:01 Matrix: Ground Water							
Dissolved Metals							
Beryllium (Be)-Dissolved	0.00014		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	0.015		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.0000108		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	81.9		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000317		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00014		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00114		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	0.944		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0019		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	14.9		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.267		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00464		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00170		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	1.15		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00200		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	0.000091		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	5.64		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	3.59		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	1.27		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	9.46		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00122		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000257		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.0493		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.000665		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2338207-3 3134-BL354-104M Sampled By: CLIENT on 24-AUG-19 @ 14:35 Matrix: Ground Water							
Physical Tests							
Conductivity	430		2.0	uS/cm		05-SEP-19	R4785228
Hardness (as CaCO3)	226		0.50	mg/L		04-SEP-19	
pH	7.02		0.10	pH		29-AUG-19	R4777648

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-3 3134-BL354-104M Sampled By: CLIENT on 24-AUG-19 @ 14:35 Matrix: Ground Water							
Physical Tests							
Total Suspended Solids	115		2.0	mg/L		30-AUG-19	R4778887
Total Dissolved Solids	274		20	mg/L		30-AUG-19	R4778949
Anions and Nutrients							
Acidity (as CaCO3)	3.4		1.0	mg/L		06-SEP-19	R4785330
Alkalinity, Total (as CaCO3)	247		1.0	mg/L		10-SEP-19	R4794232
Ammonia, Total (as N)	<0.020		0.020	mg/L		30-AUG-19	R4778343
Bromide (Br)	<0.10		0.10	mg/L		30-AUG-19	R4779231
Chloride (Cl)	0.69		0.10	mg/L		30-AUG-19	R4779231
Fluoride (F)	0.038		0.020	mg/L		30-AUG-19	R4779231
Nitrate (as N)	0.373		0.020	mg/L		30-AUG-19	R4779231
Nitrite (as N)	<0.010		0.010	mg/L		30-AUG-19	R4779231
Phosphorus (P)-Total	0.091		0.030	mg/L	31-AUG-19	03-SEP-19	R4781589
Silica, Reactive (as SiO2)	12.0		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	19.0		0.30	mg/L		30-AUG-19	R4779231
Total Metals							
Aluminum (Al)-Total	1.03		0.0030	mg/L	30-AUG-19	03-SEP-19	R4782648
Antimony (Sb)-Total	0.00099		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Arsenic (As)-Total	0.0536		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Barium (Ba)-Total	0.0193		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Beryllium (Be)-Total	0.00018		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Boron (B)-Total	<0.010		0.010	mg/L	30-AUG-19	03-SEP-19	R4782648
Cadmium (Cd)-Total	0.0000424		0.0000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Calcium (Ca)-Total	76.7		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Cesium (Cs)-Total	0.000578		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Chromium (Cr)-Total	0.00626		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Cobalt (Co)-Total	0.00392		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Copper (Cu)-Total	0.0190		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Iron (Fe)-Total	11.1		0.010	mg/L	30-AUG-19	03-SEP-19	R4782648
Lead (Pb)-Total	0.00268		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Lithium (Li)-Total	0.0025		0.0010	mg/L	30-AUG-19	03-SEP-19	R4782648
Magnesium (Mg)-Total	12.6		0.0050	mg/L	30-AUG-19	03-SEP-19	R4782648
Manganese (Mn)-Total	0.445		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Molybdenum (Mo)-Total	0.000302		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Nickel (Ni)-Total	0.00678		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Phosphorus (P)-Total	0.096		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Potassium (K)-Total	0.764		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Rubidium (Rb)-Total	0.00210		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Selenium (Se)-Total	0.000255		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Silicon (Si)-Total	6.67		0.10	mg/L	30-AUG-19	03-SEP-19	R4782648
Silver (Ag)-Total	0.000276		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-3 3134-BL354-104M Sampled By: CLIENT on 24-AUG-19 @ 14:35 Matrix: Ground Water							
Total Metals							
Sodium (Na)-Total	1.45		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Strontium (Sr)-Total	0.203		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Sulfur (S)-Total	6.86		0.50	mg/L	30-AUG-19	03-SEP-19	R4782648
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Thallium (Tl)-Total	0.000067		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Thorium (Th)-Total	0.00012		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Tin (Sn)-Total	<0.00010		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Titanium (Ti)-Total	0.0275		0.00030	mg/L	30-AUG-19	03-SEP-19	R4782648
Tungsten (W)-Total	0.00275		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Uranium (U)-Total	0.000107		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Vanadium (V)-Total	0.00383		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Zinc (Zn)-Total	0.159		0.0030	mg/L	30-AUG-19	03-SEP-19	R4782648
Zirconium (Zr)-Total	0.000988		0.000060	mg/L	30-AUG-19	03-SEP-19	R4782648
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0112		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00022		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.00072		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.00957		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.0000115		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	70.8		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000116		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00011		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00016		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.00502		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	0.070		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0020		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	11.8		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.0197		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.000205		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00200		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	0.609		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00117		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	0.000180		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	5.47		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-3 3134-BL354-104M Sampled By: CLIENT on 24-AUG-19 @ 14:35 Matrix: Ground Water							
Dissolved Metals							
Sodium (Na)-Dissolved	1.33		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	0.170		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	7.16		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00011		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000058		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.136		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.000089		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2338207-4 3134-BL52-60M Sampled By: CLIENT on 24-AUG-19 @ 18:20 Matrix: Ground Water							
Physical Tests							
Conductivity	551		2.0	uS/cm		05-SEP-19	R4785228
Hardness (as CaCO3)	279		0.50	mg/L		09-SEP-19	
pH	7.51		0.10	pH		29-AUG-19	R4777648
Total Suspended Solids	15.2		2.0	mg/L		30-AUG-19	R4778887
Total Dissolved Solids	336		20	mg/L		30-AUG-19	R4778949
Anions and Nutrients							
Acidity (as CaCO3)	1.6		1.0	mg/L		06-SEP-19	R4785330
Alkalinity, Total (as CaCO3)	289		1.0	mg/L		10-SEP-19	R4794232
Ammonia, Total (as N)	0.246		0.020	mg/L		30-AUG-19	R4778343
Bromide (Br)	<0.10		0.10	mg/L		30-AUG-19	R4779231
Chloride (Cl)	1.49		0.10	mg/L		30-AUG-19	R4779231
Fluoride (F)	0.100		0.020	mg/L		30-AUG-19	R4779231
Nitrate (as N)	0.107		0.020	mg/L		30-AUG-19	R4779231
Nitrite (as N)	<0.010		0.010	mg/L		30-AUG-19	R4779231
Phosphorus (P)-Total	0.0162		0.0030	mg/L	31-AUG-19	03-SEP-19	R4781589
Silica, Reactive (as SiO2)	13.1		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	36.4		0.30	mg/L		30-AUG-19	R4779231
Total Metals							
Aluminum (Al)-Total	0.127		0.0030	mg/L	30-AUG-19	03-SEP-19	R4782648
Antimony (Sb)-Total	0.00045		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Arsenic (As)-Total	0.00471		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Barium (Ba)-Total	0.108		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Beryllium (Be)-Total	0.00055		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Boron (B)-Total	0.036		0.010	mg/L	30-AUG-19	03-SEP-19	R4782648

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-4 3134-BL52-60M Sampled By: CLIENT on 24-AUG-19 @ 18:20 Matrix: Ground Water							
Total Metals							
Cadmium (Cd)-Total	0.0000350		0.0000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Calcium (Ca)-Total	90.6		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Cesium (Cs)-Total	0.00105		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Chromium (Cr)-Total	0.00162		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Cobalt (Co)-Total	0.00253		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Copper (Cu)-Total	0.0278		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Iron (Fe)-Total	2.32		0.010	mg/L	30-AUG-19	03-SEP-19	R4782648
Lead (Pb)-Total	0.00137		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Lithium (Li)-Total	0.0024		0.0010	mg/L	30-AUG-19	03-SEP-19	R4782648
Magnesium (Mg)-Total	20.6		0.0050	mg/L	30-AUG-19	03-SEP-19	R4782648
Manganese (Mn)-Total	0.467		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Molybdenum (Mo)-Total	0.000705		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Nickel (Ni)-Total	0.00343		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Phosphorus (P)-Total	<0.050		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Potassium (K)-Total	1.63		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Rubidium (Rb)-Total	0.00240		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Selenium (Se)-Total	0.000100		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Silicon (Si)-Total	6.05		0.10	mg/L	30-AUG-19	03-SEP-19	R4782648
Silver (Ag)-Total	0.000014		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Sodium (Na)-Total	8.59		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Strontium (Sr)-Total	3.98		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Sulfur (S)-Total	13.2		0.50	mg/L	30-AUG-19	03-SEP-19	R4782648
Tellurium (Te)-Total	0.00034		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Thallium (Tl)-Total	0.000029		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Thorium (Th)-Total	<0.00010		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Tin (Sn)-Total	<0.00010		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Titanium (Ti)-Total	0.00634		0.00030	mg/L	30-AUG-19	03-SEP-19	R4782648
Tungsten (W)-Total	0.00232		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Uranium (U)-Total	0.000249		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Vanadium (V)-Total	0.00093		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Zinc (Zn)-Total	0.113		0.0030	mg/L	30-AUG-19	03-SEP-19	R4782648
Zirconium (Zr)-Total	0.00216		0.000060	mg/L	30-AUG-19	03-SEP-19	R4782648
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0032		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00022		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.00055		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.0930		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	0.00019		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	0.030		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-4 3134-BL52-60M Sampled By: CLIENT on 24-AUG-19 @ 18:20 Matrix: Ground Water							
Dissolved Metals							
Cadmium (Cd)-Dissolved	0.0000124		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	80.8		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000993		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00044		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00040		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.00721		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	0.048		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0022		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	18.7		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.0844		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00111	DTC	0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00098		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	1.56		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00219		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	0.000082		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	5.62		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	7.68		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	3.50		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	13.3		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00225		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000239		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.0891		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.00117		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2338207-5 3134-BL52-138M Sampled By: CLIENT on 25-AUG-19 @ 10:45 Matrix: Ground Water							
Physical Tests							
Conductivity	543		2.0	uS/cm		05-SEP-19	R4785228
Hardness (as CaCO3)	282		0.50	mg/L		09-SEP-19	
pH	7.55		0.10	pH		29-AUG-19	R4777648
Total Suspended Solids	14.1		2.0	mg/L		30-AUG-19	R4778887
Total Dissolved Solids	334		20	mg/L		30-AUG-19	R4778949
Anions and Nutrients							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-5 3134-BL52-138M Sampled By: CLIENT on 25-AUG-19 @ 10:45 Matrix: Ground Water							
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		06-SEP-19	R4785330
Alkalinity, Total (as CaCO3)	268		1.0	mg/L		10-SEP-19	R4794232
Ammonia, Total (as N)	0.247		0.020	mg/L		30-AUG-19	R4778343
Bromide (Br)	<0.10		0.10	mg/L		30-AUG-19	R4779231
Chloride (Cl)	1.33		0.10	mg/L		30-AUG-19	R4779231
Fluoride (F)	0.129		0.020	mg/L		30-AUG-19	R4779231
Nitrate (as N)	0.117		0.020	mg/L		30-AUG-19	R4779231
Nitrite (as N)	<0.010		0.010	mg/L		30-AUG-19	R4779231
Phosphorus (P)-Total	0.0193		0.0030	mg/L	31-AUG-19	03-SEP-19	R4781589
Silica, Reactive (as SiO2)	12.7		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	35.8		0.30	mg/L		30-AUG-19	R4779231
Total Metals							
Aluminum (Al)-Total	0.0215		0.0030	mg/L	31-AUG-19	03-SEP-19	R4782648
Antimony (Sb)-Total	0.00024		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Arsenic (As)-Total	0.00098		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Barium (Ba)-Total	0.0793		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Beryllium (Be)-Total	0.00050		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Boron (B)-Total	0.039		0.010	mg/L	31-AUG-19	03-SEP-19	R4782648
Cadmium (Cd)-Total	0.0000220		0.0000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Calcium (Ca)-Total	72.0		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Cesium (Cs)-Total	0.000829		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Chromium (Cr)-Total	0.00011		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Cobalt (Co)-Total	0.00041		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Copper (Cu)-Total	0.0284		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Iron (Fe)-Total	0.236		0.010	mg/L	31-AUG-19	03-SEP-19	R4782648
Lead (Pb)-Total	0.000133		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Lithium (Li)-Total	<0.0010		0.0010	mg/L	31-AUG-19	03-SEP-19	R4782648
Magnesium (Mg)-Total	17.6		0.0050	mg/L	31-AUG-19	03-SEP-19	R4782648
Manganese (Mn)-Total	0.115		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Molybdenum (Mo)-Total	0.00119		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Nickel (Ni)-Total	0.00126		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Phosphorus (P)-Total	<0.050		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Potassium (K)-Total	1.23		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Rubidium (Rb)-Total	0.00176		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Selenium (Se)-Total	0.000091		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Silicon (Si)-Total	5.48		0.10	mg/L	31-AUG-19	03-SEP-19	R4782648
Silver (Ag)-Total	<0.000010		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Sodium (Na)-Total	8.15		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Strontium (Sr)-Total	3.48		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Sulfur (S)-Total	14.8		0.50	mg/L	31-AUG-19	03-SEP-19	R4782648

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-5 3134-BL52-138M Sampled By: CLIENT on 25-AUG-19 @ 10:45 Matrix: Ground Water							
Total Metals							
Tellurium (Te)-Total	0.00035		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Thallium (Tl)-Total	0.000014		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Tin (Sn)-Total	<0.00010		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Titanium (Ti)-Total	0.00066		0.00030	mg/L	31-AUG-19	03-SEP-19	R4782648
Tungsten (W)-Total	0.00263		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Uranium (U)-Total	0.000220		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Vanadium (V)-Total	<0.00050		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Zinc (Zn)-Total	0.142		0.0030	mg/L	31-AUG-19	03-SEP-19	R4782648
Zirconium (Zr)-Total	0.00147		0.000060	mg/L	31-AUG-19	03-SEP-19	R4782648
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0039		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00026		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.00048		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.101		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	0.00039		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	0.034		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.0000175		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	81.0		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.00109		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00099	DTC	0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00052		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.0189		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	0.035		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0023		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	19.3		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.104		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00115		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00124		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	1.62		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00235		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	0.000090		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	5.75		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	8.63		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	3.71		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	13.6		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-5 3134-BL52-138M Sampled By: CLIENT on 25-AUG-19 @ 10:45 Matrix: Ground Water							
Dissolved Metals							
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	0.000012		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00272		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000215		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.179		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.00131		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2338207-6 3134-BL52-238M Sampled By: CLIENT on 25-AUG-19 @ 14:15 Matrix: Ground Water							
Physical Tests							
Conductivity	575		2.0	uS/cm		05-SEP-19	R4785228
Hardness (as CaCO3)	296		0.50	mg/L		09-SEP-19	
pH	7.46		0.10	pH		29-AUG-19	R4777648
Total Suspended Solids	31.7		2.0	mg/L		30-AUG-19	R4778887
Total Dissolved Solids	355		20	mg/L		30-AUG-19	R4778949
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		06-SEP-19	R4785330
Alkalinity, Total (as CaCO3)	235		1.0	mg/L		10-SEP-19	R4794232
Ammonia, Total (as N)	<0.020		0.020	mg/L		30-AUG-19	R4778343
Bromide (Br)	<0.10		0.10	mg/L		30-AUG-19	R4779231
Chloride (Cl)	2.50		0.10	mg/L		30-AUG-19	R4779231
Fluoride (F)	0.068		0.020	mg/L		30-AUG-19	R4779231
Nitrate (as N)	0.262		0.020	mg/L		30-AUG-19	R4779231
Nitrite (as N)	<0.010		0.010	mg/L		30-AUG-19	R4779231
Phosphorus (P)-Total	0.0318		0.0030	mg/L	31-AUG-19	03-SEP-19	R4781589
Silica, Reactive (as SiO2)	12.9		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	45.0		0.30	mg/L		30-AUG-19	R4779231
Total Metals							
Aluminum (Al)-Total	0.0409		0.0030	mg/L	31-AUG-19	03-SEP-19	R4782648
Antimony (Sb)-Total	0.00062		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Arsenic (As)-Total	0.00167		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Barium (Ba)-Total	0.0495		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Beryllium (Be)-Total	0.00181		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Boron (B)-Total	0.036		0.010	mg/L	31-AUG-19	03-SEP-19	R4782648
Cadmium (Cd)-Total	0.0000607		0.0000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Calcium (Ca)-Total	80.1		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Cesium (Cs)-Total	0.000535		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-6 3134-BL52-238M Sampled By: CLIENT on 25-AUG-19 @ 14:15 Matrix: Ground Water							
Total Metals							
Chromium (Cr)-Total	0.00017		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Cobalt (Co)-Total	0.00077		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Copper (Cu)-Total	0.0870		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Iron (Fe)-Total	0.454		0.010	mg/L	31-AUG-19	03-SEP-19	R4782648
Lead (Pb)-Total	0.000510		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Lithium (Li)-Total	0.0018		0.0010	mg/L	31-AUG-19	03-SEP-19	R4782648
Magnesium (Mg)-Total	17.5		0.0050	mg/L	31-AUG-19	03-SEP-19	R4782648
Manganese (Mn)-Total	0.221		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Molybdenum (Mo)-Total	0.00102		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Nickel (Ni)-Total	0.00295		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Phosphorus (P)-Total	<0.050		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Potassium (K)-Total	0.868		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Rubidium (Rb)-Total	0.00146		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Selenium (Se)-Total	0.000155		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Silicon (Si)-Total	5.53		0.10	mg/L	31-AUG-19	03-SEP-19	R4782648
Silver (Ag)-Total	0.000011		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Sodium (Na)-Total	7.88		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Strontium (Sr)-Total	1.38		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Sulfur (S)-Total	16.6		0.50	mg/L	31-AUG-19	03-SEP-19	R4782648
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Thallium (Tl)-Total	0.000019		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Tin (Sn)-Total	<0.00010		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Titanium (Ti)-Total	0.00149		0.00030	mg/L	31-AUG-19	03-SEP-19	R4782648
Tungsten (W)-Total	0.00113		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Uranium (U)-Total	0.000259		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Vanadium (V)-Total	<0.00050		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Zinc (Zn)-Total	0.551		0.0030	mg/L	31-AUG-19	03-SEP-19	R4782648
Zirconium (Zr)-Total	0.000654		0.000060	mg/L	31-AUG-19	03-SEP-19	R4782648
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0023		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00056		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.00077		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.0576		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	0.00137		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	0.031		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.0000575		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	86.6		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000615		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-6 3134-BL52-238M Sampled By: CLIENT on 25-AUG-19 @ 14:15 Matrix: Ground Water							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00134	DTC	0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00096		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.0700		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	0.012		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0021		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	19.4		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.204		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00108		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00294		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	1.09		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00188		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	0.000206		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	5.78		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	8.44		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	1.41		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	16.1		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	0.000012		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00094		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000284		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.687		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.000324		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2338207-7 3134-BL52-435M Sampled By: CLIENT on 25-AUG-19 @ 18:35 Matrix: Ground Water							
Physical Tests							
Conductivity	589		2.0	uS/cm		05-SEP-19	R4785228
Hardness (as CaCO3)	302		0.50	mg/L		09-SEP-19	
pH	7.52		0.10	pH		29-AUG-19	R4777648
Total Suspended Solids	27.1		2.0	mg/L		30-AUG-19	R4778887
Total Dissolved Solids	371		20	mg/L		30-AUG-19	R4778949
Anions and Nutrients							
Acidity (as CaCO3)	<1.0		1.0	mg/L		06-SEP-19	R4785330
Alkalinity, Total (as CaCO3)	143		1.0	mg/L		10-SEP-19	R4794232
Ammonia, Total (as N)	<0.020		0.020	mg/L		30-AUG-19	R4778343

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-7 3134-BL52-435M Sampled By: CLIENT on 25-AUG-19 @ 18:35 Matrix: Ground Water							
Anions and Nutrients							
Bromide (Br)	<0.10		0.10	mg/L		30-AUG-19	R4779231
Chloride (Cl)	4.02		0.10	mg/L		30-AUG-19	R4779231
Fluoride (F)	0.062		0.020	mg/L		30-AUG-19	R4779231
Nitrate (as N)	0.083		0.020	mg/L		30-AUG-19	R4779231
Nitrite (as N)	<0.010		0.010	mg/L		30-AUG-19	R4779231
Phosphorus (P)-Total	0.0270		0.0030	mg/L	31-AUG-19	03-SEP-19	R4781589
Silica, Reactive (as SiO2)	13.1		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	41.0		0.30	mg/L		30-AUG-19	R4779231
Total Metals							
Aluminum (Al)-Total	0.0399		0.0030	mg/L	31-AUG-19	03-SEP-19	R4782648
Antimony (Sb)-Total	0.00093		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Arsenic (As)-Total	0.00145		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Barium (Ba)-Total	0.0535		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Beryllium (Be)-Total	0.00203		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Boron (B)-Total	0.045		0.010	mg/L	31-AUG-19	03-SEP-19	R4782648
Cadmium (Cd)-Total	0.0000601		0.0000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Calcium (Ca)-Total	75.3		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Cesium (Cs)-Total	0.000699		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Chromium (Cr)-Total	0.00017		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Cobalt (Co)-Total	0.00204		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Copper (Cu)-Total	0.106		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Iron (Fe)-Total	0.255		0.010	mg/L	31-AUG-19	03-SEP-19	R4782648
Lead (Pb)-Total	0.000888		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Lithium (Li)-Total	0.0016		0.0010	mg/L	31-AUG-19	03-SEP-19	R4782648
Magnesium (Mg)-Total	16.8		0.0050	mg/L	31-AUG-19	03-SEP-19	R4782648
Manganese (Mn)-Total	0.380		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Molybdenum (Mo)-Total	0.00125		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Nickel (Ni)-Total	0.00405		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Phosphorus (P)-Total	<0.050		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Potassium (K)-Total	0.921		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Rubidium (Rb)-Total	0.00167		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Selenium (Se)-Total	0.000132		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Silicon (Si)-Total	5.51		0.10	mg/L	31-AUG-19	03-SEP-19	R4782648
Silver (Ag)-Total	<0.000010		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Sodium (Na)-Total	9.33		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Strontium (Sr)-Total	1.46		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Sulfur (S)-Total	19.4		0.50	mg/L	31-AUG-19	03-SEP-19	R4782648
Tellurium (Te)-Total	0.00021		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Thallium (Tl)-Total	0.000017		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-7 3134-BL52-435M Sampled By: CLIENT on 25-AUG-19 @ 18:35 Matrix: Ground Water							
Total Metals							
Tin (Sn)-Total	<0.00010		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Titanium (Ti)-Total	0.00136		0.00030	mg/L	31-AUG-19	03-SEP-19	R4782648
Tungsten (W)-Total	0.00126		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Uranium (U)-Total	0.000300		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Vanadium (V)-Total	<0.00050		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Zinc (Zn)-Total	0.338		0.0030	mg/L	31-AUG-19	03-SEP-19	R4782648
Zirconium (Zr)-Total	0.000663		0.000060	mg/L	31-AUG-19	03-SEP-19	R4782648
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0027		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00074		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.00077		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.0654		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	0.00151		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	0.035		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.0000637		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	88.9		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000764		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00098	DTC	0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00258		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.0637		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	0.012		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0025		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	19.3		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.423		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00127		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00371		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	1.23		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00222		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	0.000136		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	5.86		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	10.3		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	1.62		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	17.8		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	0.000014		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-7 3134-BL52-435M Sampled By: CLIENT on 25-AUG-19 @ 18:35 Matrix: Ground Water							
Dissolved Metals							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00107		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000307		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.438		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.000333		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2338207-8 3134-BL-310-60M Sampled By: CLIENT on 25-AUG-19 @ 12:15 Matrix: Ground Water							
Physical Tests							
Conductivity	614		2.0	uS/cm		05-SEP-19	R4785228
Hardness (as CaCO3)	324		0.50	mg/L		09-SEP-19	
pH	7.28		0.10	pH		29-AUG-19	R4777648
Total Suspended Solids	9.1		2.0	mg/L		30-AUG-19	R4778887
Total Dissolved Solids	386		20	mg/L		30-AUG-19	R4778949
Anions and Nutrients							
Acidity (as CaCO3)	6.7		1.0	mg/L		06-SEP-19	R4785330
Alkalinity, Total (as CaCO3)	318		1.0	mg/L		10-SEP-19	R4794232
Ammonia, Total (as N)	0.154		0.020	mg/L		30-AUG-19	R4778343
Bromide (Br)	<0.10		0.10	mg/L		30-AUG-19	R4779231
Chloride (Cl)	9.54		0.10	mg/L		30-AUG-19	R4779231
Fluoride (F)	0.061		0.020	mg/L		30-AUG-19	R4779231
Nitrate (as N)	0.128		0.020	mg/L		30-AUG-19	R4779231
Nitrite (as N)	0.013		0.010	mg/L		30-AUG-19	R4779231
Phosphorus (P)-Total	0.0270		0.0030	mg/L	31-AUG-19	03-SEP-19	R4781589
Silica, Reactive (as SiO2)	13.0		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	31.8		0.30	mg/L		30-AUG-19	R4779231
Total Metals							
Aluminum (Al)-Total	0.0334		0.0030	mg/L	31-AUG-19	03-SEP-19	R4782648
Antimony (Sb)-Total	0.00066		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Arsenic (As)-Total	0.00605		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Barium (Ba)-Total	0.153		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Beryllium (Be)-Total	0.00021		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Boron (B)-Total	0.027		0.010	mg/L	31-AUG-19	03-SEP-19	R4782648
Cadmium (Cd)-Total	0.0000177		0.0000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Calcium (Ca)-Total	81.6		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Cesium (Cs)-Total	0.000200		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Chromium (Cr)-Total	0.00055		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Cobalt (Co)-Total	0.00263		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Copper (Cu)-Total	0.00706		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-8 3134-BL-310-60M Sampled By: CLIENT on 25-AUG-19 @ 12:15 Matrix: Ground Water							
Total Metals							
Iron (Fe)-Total	0.898		0.010	mg/L	31-AUG-19	03-SEP-19	R4782648
Lead (Pb)-Total	0.000130		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Lithium (Li)-Total	0.0016		0.0010	mg/L	31-AUG-19	03-SEP-19	R4782648
Magnesium (Mg)-Total	16.9		0.0050	mg/L	31-AUG-19	03-SEP-19	R4782648
Manganese (Mn)-Total	0.782		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Molybdenum (Mo)-Total	0.00183		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Nickel (Ni)-Total	0.00313		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Phosphorus (P)-Total	<0.050		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Potassium (K)-Total	1.35		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Rubidium (Rb)-Total	0.00198		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Selenium (Se)-Total	0.000094		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Silicon (Si)-Total	5.63		0.10	mg/L	31-AUG-19	03-SEP-19	R4782648
Silver (Ag)-Total	0.000017		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Sodium (Na)-Total	7.26		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Strontium (Sr)-Total	0.865		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Sulfur (S)-Total	13.8		0.50	mg/L	31-AUG-19	03-SEP-19	R4782648
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Thallium (Tl)-Total	0.000013		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Tin (Sn)-Total	<0.00010		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Titanium (Ti)-Total	<0.0015		0.0015	mg/L	31-AUG-19	03-SEP-19	R4782648
Tungsten (W)-Total	0.00241		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Uranium (U)-Total	0.000483		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Vanadium (V)-Total	0.00102		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Zinc (Zn)-Total	0.0663		0.0030	mg/L	31-AUG-19	03-SEP-19	R4782648
Zirconium (Zr)-Total	0.00534		0.000060	mg/L	31-AUG-19	03-SEP-19	R4782648
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0140		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00069		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.00541		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.193		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	0.00018		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	0.022		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.0000156		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	98.6		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000231		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00180	DTC	0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00408	DTC	0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.00436		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-8 3134-BL-310-60M Sampled By: CLIENT on 25-AUG-19 @ 12:15 Matrix: Ground Water							
Dissolved Metals							
Iron (Fe)-Dissolved	0.773		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0025		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	19.0		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.904		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00161		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00381		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	1.82		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00267		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	0.000126		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	5.83		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	8.52		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	0.932		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	12.3		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	<0.00066	DLM	0.00066	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00207		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000463		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	0.00088		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.0950	DTC	0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.00467		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2338207-9 3134-MW2 Sampled By: CLIENT on 26-AUG-19 @ 15:30 Matrix: Ground Water							
Physical Tests							
Conductivity	479		2.0	uS/cm		05-SEP-19	R4785228
Hardness (as CaCO3)	290		0.50	mg/L		09-SEP-19	
pH	7.68		0.10	pH		29-AUG-19	R4777648
Total Suspended Solids	2680		6.0	mg/L		30-AUG-19	R4778887
Total Dissolved Solids	442		40	mg/L		30-AUG-19	R4778949
Anions and Nutrients							
Acidity (as CaCO3)	<1.0	DLIS	1.0	mg/L		09-SEP-19	R4790730
Alkalinity, Total (as CaCO3)	277		1.0	mg/L		05-SEP-19	R4787430
Ammonia, Total (as N)	<0.020		0.020	mg/L		30-AUG-19	R4778343
Bromide (Br)	<0.20	DLDS	0.20	mg/L		01-SEP-19	R4780012
Chloride (Cl)	1.10		0.10	mg/L		30-AUG-19	R4779231
Fluoride (F)	0.057		0.040	mg/L		01-SEP-19	R4780012

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-9 3134-MW2 Sampled By: CLIENT on 26-AUG-19 @ 15:30 Matrix: Ground Water							
Anions and Nutrients							
Nitrate (as N)	0.034		0.020	mg/L		30-AUG-19	R4779231
Nitrite (as N)	<0.020	DLDS	0.020	mg/L		01-SEP-19	R4780012
Phosphorus (P)-Total	0.81		0.15	mg/L	31-AUG-19	03-SEP-19	R4781589
Silica, Reactive (as SiO2)	17.3		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	5.36		0.30	mg/L		30-AUG-19	R4779231
Total Metals							
Aluminum (Al)-Total	4.69		0.0030	mg/L	31-AUG-19	03-SEP-19	R4782648
Antimony (Sb)-Total	0.0167		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Arsenic (As)-Total	0.00173		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Barium (Ba)-Total	0.109		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Beryllium (Be)-Total	0.00025		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Boron (B)-Total	0.017		0.010	mg/L	31-AUG-19	03-SEP-19	R4782648
Cadmium (Cd)-Total	0.000164		0.0000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Calcium (Ca)-Total	176		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Cesium (Cs)-Total	0.000388		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Chromium (Cr)-Total	0.0105		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Cobalt (Co)-Total	0.00333		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Copper (Cu)-Total	0.0167		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Iron (Fe)-Total	5.53		0.010	mg/L	31-AUG-19	03-SEP-19	R4782648
Lead (Pb)-Total	0.0193		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Lithium (Li)-Total	0.0114		0.0010	mg/L	31-AUG-19	03-SEP-19	R4782648
Magnesium (Mg)-Total	40.2		0.0050	mg/L	31-AUG-19	03-SEP-19	R4782648
Manganese (Mn)-Total	0.241		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Molybdenum (Mo)-Total	0.000476		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Nickel (Ni)-Total	0.00879		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Phosphorus (P)-Total	0.680		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Potassium (K)-Total	2.39		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Rubidium (Rb)-Total	0.00963		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Selenium (Se)-Total	<0.000050		0.000050	mg/L	31-AUG-19	03-SEP-19	R4782648
Silicon (Si)-Total	14.2		0.10	mg/L	31-AUG-19	03-SEP-19	R4782648
Silver (Ag)-Total	0.000023		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Sodium (Na)-Total	3.50		0.050	mg/L	31-AUG-19	03-SEP-19	R4782648
Strontium (Sr)-Total	0.172		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Sulfur (S)-Total	1.96		0.50	mg/L	31-AUG-19	03-SEP-19	R4782648
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	31-AUG-19	03-SEP-19	R4782648
Thallium (Tl)-Total	0.000062		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Thorium (Th)-Total	0.00204		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Tin (Sn)-Total	0.00066		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648
Titanium (Ti)-Total	0.220		0.00030	mg/L	31-AUG-19	03-SEP-19	R4782648
Tungsten (W)-Total	0.00028		0.00010	mg/L	31-AUG-19	03-SEP-19	R4782648

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-9 3134-MW2 Sampled By: CLIENT on 26-AUG-19 @ 15:30 Matrix: Ground Water							
Total Metals							
Uranium (U)-Total	0.000760		0.000010	mg/L	31-AUG-19	03-SEP-19	R4782648
Vanadium (V)-Total	0.0152		0.00050	mg/L	31-AUG-19	03-SEP-19	R4782648
Zinc (Zn)-Total	0.101		0.0030	mg/L	31-AUG-19	03-SEP-19	R4782648
Zirconium (Zr)-Total	0.00328		0.000060	mg/L	31-AUG-19	03-SEP-19	R4782648
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0122		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00340		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.00024		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.0286		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.0000127		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	83.4		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00466		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00019		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.00189		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	0.027		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0047		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Magnesium (Mg)-Dissolved	19.7		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.0317		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.000692	DTC	0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00291		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	1.26		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00119		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	7.73		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	0.000015		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	5.23	DTC	0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	0.0956		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	2.40		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	0.00022		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	0.00059		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-9 3134-MW2 Sampled By: CLIENT on 26-AUG-19 @ 15:30 Matrix: Ground Water							
Dissolved Metals							
Uranium (U)-Dissolved	0.000443		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	0.00176		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.0214		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.000139		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072
L2338207-10 3134-BL341-60M Sampled By: CLIENT on 26-AUG-19 @ 00:01 Matrix: Ground Water							
Physical Tests							
Conductivity	440		2.0	uS/cm		05-SEP-19	R4785228
Hardness (as CaCO3)	228		0.50	mg/L		04-SEP-19	
pH	7.30		0.10	pH		29-AUG-19	R4777648
Total Suspended Solids	45.2		2.0	mg/L		30-AUG-19	R4778887
Total Dissolved Solids	277		20	mg/L		30-AUG-19	R4778949
Anions and Nutrients							
Acidity (as CaCO3)	1.8		1.0	mg/L		06-SEP-19	R4785330
Alkalinity, Total (as CaCO3)	294		2.0	mg/L		10-SEP-19	R4794232
Ammonia, Total (as N)	0.037		0.020	mg/L		30-AUG-19	R4778343
Bromide (Br)	<0.10		0.10	mg/L		30-AUG-19	R4779231
Chloride (Cl)	0.15		0.10	mg/L		30-AUG-19	R4779231
Fluoride (F)	0.047		0.020	mg/L		30-AUG-19	R4779231
Nitrate (as N)	<0.020		0.020	mg/L		30-AUG-19	R4779231
Nitrite (as N)	<0.010		0.010	mg/L		30-AUG-19	R4779231
Phosphorus (P)-Total	0.0633		0.0030	mg/L	31-AUG-19	03-SEP-19	R4781589
Silica, Reactive (as SiO2)	9.3		1.0	mg/L		04-SEP-19	R4783888
Sulfate (SO4)	28.5		0.30	mg/L		30-AUG-19	R4779231
Total Metals							
Aluminum (Al)-Total	0.628		0.0030	mg/L	30-AUG-19	03-SEP-19	R4782648
Antimony (Sb)-Total	0.00046		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Arsenic (As)-Total	0.00910		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Barium (Ba)-Total	0.0291		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Beryllium (Be)-Total	0.00021		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Boron (B)-Total	<0.010		0.010	mg/L	30-AUG-19	03-SEP-19	R4782648
Cadmium (Cd)-Total	0.000396		0.0000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Calcium (Ca)-Total	74.1		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Cesium (Cs)-Total	0.000452		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Chromium (Cr)-Total	0.00286		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Cobalt (Co)-Total	0.00254		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Copper (Cu)-Total	0.0129		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Iron (Fe)-Total	3.25		0.010	mg/L	30-AUG-19	03-SEP-19	R4782648
Lead (Pb)-Total	0.0131		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Lithium (Li)-Total	0.0013		0.0010	mg/L	30-AUG-19	03-SEP-19	R4782648

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-10 3134-BL341-60M Sampled By: CLIENT on 26-AUG-19 @ 00:01 Matrix: Ground Water							
Total Metals							
Magnesium (Mg)-Total	16.4		0.0050	mg/L	30-AUG-19	03-SEP-19	R4782648
Manganese (Mn)-Total	0.597		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Molybdenum (Mo)-Total	0.00169		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Nickel (Ni)-Total	0.00437		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Phosphorus (P)-Total	<0.050		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Potassium (K)-Total	2.49		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Rubidium (Rb)-Total	0.00703		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Selenium (Se)-Total	0.000112		0.000050	mg/L	30-AUG-19	03-SEP-19	R4782648
Silicon (Si)-Total	4.64		0.10	mg/L	30-AUG-19	03-SEP-19	R4782648
Silver (Ag)-Total	0.000149		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Sodium (Na)-Total	1.29		0.050	mg/L	30-AUG-19	03-SEP-19	R4782648
Strontium (Sr)-Total	0.316		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Sulfur (S)-Total	12.1		0.50	mg/L	30-AUG-19	03-SEP-19	R4782648
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	30-AUG-19	03-SEP-19	R4782648
Thallium (Tl)-Total	0.000160		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Thorium (Th)-Total	0.00012		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Tin (Sn)-Total	<0.00010		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Titanium (Ti)-Total	0.0309		0.00030	mg/L	30-AUG-19	03-SEP-19	R4782648
Tungsten (W)-Total	0.00358		0.00010	mg/L	30-AUG-19	03-SEP-19	R4782648
Uranium (U)-Total	0.000845		0.000010	mg/L	30-AUG-19	03-SEP-19	R4782648
Vanadium (V)-Total	0.00243		0.00050	mg/L	30-AUG-19	03-SEP-19	R4782648
Zinc (Zn)-Total	0.0967		0.0030	mg/L	30-AUG-19	03-SEP-19	R4782648
Zirconium (Zr)-Total	0.00278		0.000060	mg/L	30-AUG-19	03-SEP-19	R4782648
Dissolved Metals							
Dissolved Metals Filtration Location	FIELD					30-AUG-19	R4778353
Aluminum (Al)-Dissolved	0.0430		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Antimony (Sb)-Dissolved	0.00023		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Arsenic (As)-Dissolved	0.00086		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Barium (Ba)-Dissolved	0.0214		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cadmium (Cd)-Dissolved	0.000190		0.0000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Calcium (Ca)-Dissolved	66.4		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Cesium (Cs)-Dissolved	0.000072		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Chromium (Cr)-Dissolved	0.00021		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Cobalt (Co)-Dissolved	0.00135		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Copper (Cu)-Dissolved	0.00334		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Iron (Fe)-Dissolved	0.127		0.010	mg/L	30-AUG-19	30-AUG-19	R4782072
Lead (Pb)-Dissolved	0.000303		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Lithium (Li)-Dissolved	0.0012		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2338207-10 3134-BL341-60M Sampled By: CLIENT on 26-AUG-19 @ 00:01 Matrix: Ground Water							
Dissolved Metals							
Magnesium (Mg)-Dissolved	15.1		0.0050	mg/L	30-AUG-19	30-AUG-19	R4782072
Manganese (Mn)-Dissolved	0.402		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Molybdenum (Mo)-Dissolved	0.00209		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Nickel (Ni)-Dissolved	0.00244		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Potassium (K)-Dissolved	2.04		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Rubidium (Rb)-Dissolved	0.00380		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Selenium (Se)-Dissolved	0.000090		0.000050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silicon (Si)-Dissolved	4.05		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Silver (Ag)-Dissolved	0.000012		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Sodium (Na)-Dissolved	1.13		0.050	mg/L	30-AUG-19	30-AUG-19	R4782072
Strontium (Sr)-Dissolved	0.270		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Sulfur (S)-Dissolved	12.1		0.50	mg/L	30-AUG-19	30-AUG-19	R4782072
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-AUG-19	30-AUG-19	R4782072
Thallium (Tl)-Dissolved	0.000042		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Titanium (Ti)-Dissolved	0.00087		0.00030	mg/L	30-AUG-19	30-AUG-19	R4782072
Tungsten (W)-Dissolved	0.00094		0.00010	mg/L	30-AUG-19	30-AUG-19	R4782072
Uranium (U)-Dissolved	0.000738		0.000010	mg/L	30-AUG-19	30-AUG-19	R4782072
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-AUG-19	30-AUG-19	R4782072
Zinc (Zn)-Dissolved	0.0751		0.0010	mg/L	30-AUG-19	30-AUG-19	R4782072
Zirconium (Zr)-Dissolved	0.00186		0.000060	mg/L	30-AUG-19	30-AUG-19	R4782072

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Antimony (Sb)-Dissolved	MS-B	L2338207-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2338207-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2338207-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2338207-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L2338207-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Potassium (K)-Dissolved	MS-B	L2338207-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2338207-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L2338207-1, -10, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L2338207-5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L2338207-1, -10, -2, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2338207-5, -6, -7, -8, -9
Matrix Spike	Copper (Cu)-Total	MS-B	L2338207-5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2338207-5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L2338207-5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L2338207-5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L2338207-5, -6, -7, -8, -9
Matrix Spike	Zinc (Zn)-Total	MS-B	L2338207-5, -6, -7, -8, -9
Matrix Spike	Silica, Reactive (as SiO2)	MS-B	L2338207-1, -10, -2, -3, -4, -5, -6, -7, -8, -9

Sample Parameter Qualifier key listed:

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLIS	Detection Limit Adjusted: Insufficient Sample
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 Acidity

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

Samples of industrial wastes, acid mine drainage, or other solutions that contain appreciable amounts of hydrolyzable metal ions such as aluminum, iron, and manganese may require hot peroxide treatment to ensure oxidation and hydrolysis of reduced forms of polyvalent cations. Acidity results may be highly variable if this procedure is not followed. Results in this report for 'Acidity (as CaCO3)' have not been peroxide treated.

ALK-TITR-VA	Water	Alkalinity Species by Titration	APHA 2320 Alkalinity

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Reference Information

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-COL-TB	Water	Ammonia by Discrete Analyzer	APHA 4500-NH3 G. (modified)

Ammonia in aqueous matrices is analyzed using discrete analyzer with colourimetric detection.

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-METER-TB	Water	pH	APHA 4500-H-ELECTRODE

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using pH electrode.

SIO2-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: GOLD CANYON RESOURCES INC.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2
Contact: David Mchaina

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-PCT-VA	Water							
Batch R4790730								
WG3155369-3 LCS								
Acidity (as CaCO3)			105.0		%		85-115	09-SEP-19
WG3155369-1 MB								
Acidity (as CaCO3)			1.8		mg/L		2	09-SEP-19
ALK-TITR-VA	Water							
Batch R4787430								
WG3152944-3 LCS								
Alkalinity, Total (as CaCO3)			99.4		%		85-115	05-SEP-19
WG3152944-1 MB								
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	05-SEP-19
Batch R4794232								
WG3155474-3 LCS								
Alkalinity, Total (as CaCO3)			107.6		%		85-115	10-SEP-19
WG3155474-1 MB								
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	10-SEP-19
BR-IC-N-TB	Water							
Batch R4779231								
WG3148833-2 LCS								
Bromide (Br)			91.0		%		85-115	30-AUG-19
WG3148833-6 LCS								
Bromide (Br)			87.7		%		85-115	30-AUG-19
WG3148833-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	30-AUG-19
WG3148833-5 MB								
Bromide (Br)			<0.10		mg/L		0.1	30-AUG-19
Batch R4780012								
WG3149847-2 LCS								
Bromide (Br)			100.2		%		85-115	01-SEP-19
WG3149847-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	01-SEP-19
CL-L-IC-N-TB	Water							
Batch R4779231								
WG3148833-2 LCS								
Chloride (Cl)			100.3		%		90-110	30-AUG-19
WG3148833-6 LCS								
Chloride (Cl)			99.3		%		90-110	30-AUG-19
WG3148833-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	30-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB	Water							
Batch R4779231								
WG3148833-5 MB								
Chloride (Cl)			<0.10		mg/L		0.1	30-AUG-19
WG3148833-8 MS		**L2338207-9**						
Chloride (Cl)			84.9		%		75-125	30-AUG-19
EC-PCT-VA	Water							
Batch R4787430								
WG3152944-3 LCS								
Conductivity			106.5		%		90-110	05-SEP-19
WG3152944-1 MB								
Conductivity			<2.0		uS/cm		2	05-SEP-19
F-IC-N-TB	Water							
Batch R4779231								
WG3148833-2 LCS								
Fluoride (F)			100.7		%		90-110	30-AUG-19
WG3148833-6 LCS								
Fluoride (F)			99.0		%		90-110	30-AUG-19
WG3148833-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	30-AUG-19
WG3148833-5 MB								
Fluoride (F)			<0.020		mg/L		0.02	30-AUG-19
Batch R4780012								
WG3149847-2 LCS								
Fluoride (F)			100.9		%		90-110	01-SEP-19
WG3149847-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	01-SEP-19
MET-D-CCMS-TB	Water							
Batch R4782072								
WG3148256-10 LCS								
Aluminum (Al)-Dissolved			101.8		%		80-120	30-AUG-19
Antimony (Sb)-Dissolved			99.2		%		80-120	30-AUG-19
Arsenic (As)-Dissolved			98.7		%		80-120	30-AUG-19
Barium (Ba)-Dissolved			104.5		%		80-120	30-AUG-19
Beryllium (Be)-Dissolved			96.5		%		80-120	30-AUG-19
Bismuth (Bi)-Dissolved			100.7		%		80-120	30-AUG-19
Boron (B)-Dissolved			86.1		%		80-120	30-AUG-19
Cadmium (Cd)-Dissolved			99.2		%		80-120	30-AUG-19
Calcium (Ca)-Dissolved			99.6		%		80-120	30-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4782072								
WG3148256-10 LCS								
Cesium (Cs)-Dissolved			99.4		%		80-120	30-AUG-19
Chromium (Cr)-Dissolved			97.9		%		80-120	30-AUG-19
Cobalt (Co)-Dissolved			99.4		%		80-120	30-AUG-19
Copper (Cu)-Dissolved			99.8		%		80-120	30-AUG-19
Iron (Fe)-Dissolved			101.5		%		80-120	30-AUG-19
Lead (Pb)-Dissolved			102.6		%		80-120	30-AUG-19
Lithium (Li)-Dissolved			93.1		%		80-120	30-AUG-19
Magnesium (Mg)-Dissolved			102.2		%		80-120	30-AUG-19
Manganese (Mn)-Dissolved			99.0		%		80-120	30-AUG-19
Molybdenum (Mo)-Dissolved			101.6		%		80-120	30-AUG-19
Nickel (Ni)-Dissolved			97.6		%		80-120	30-AUG-19
Phosphorus (P)-Dissolved			108.8		%		80-120	30-AUG-19
Potassium (K)-Dissolved			102.5		%		80-120	30-AUG-19
Rubidium (Rb)-Dissolved			98.6		%		80-120	30-AUG-19
Selenium (Se)-Dissolved			103.5		%		80-120	30-AUG-19
Silicon (Si)-Dissolved			98.2		%		80-120	30-AUG-19
Silver (Ag)-Dissolved			99.2		%		80-120	30-AUG-19
Sodium (Na)-Dissolved			98.0		%		80-120	30-AUG-19
Strontium (Sr)-Dissolved			98.3		%		80-120	30-AUG-19
Sulfur (S)-Dissolved			93.6		%		80-120	30-AUG-19
Tellurium (Te)-Dissolved			100.5		%		80-120	30-AUG-19
Thallium (Tl)-Dissolved			102.6		%		80-120	30-AUG-19
Thorium (Th)-Dissolved			100.3		%		80-120	30-AUG-19
Tin (Sn)-Dissolved			101.8		%		80-120	30-AUG-19
Titanium (Ti)-Dissolved			97.6		%		80-120	30-AUG-19
Tungsten (W)-Dissolved			102.5		%		80-120	30-AUG-19
Uranium (U)-Dissolved			97.5		%		80-120	30-AUG-19
Vanadium (V)-Dissolved			99.4		%		80-120	30-AUG-19
Zinc (Zn)-Dissolved			101.5		%		80-120	30-AUG-19
Zirconium (Zr)-Dissolved			106.4		%		80-120	30-AUG-19
WG3148256-14 LCS								
Aluminum (Al)-Dissolved			103.7		%		80-120	30-AUG-19
Antimony (Sb)-Dissolved			104.6		%		80-120	30-AUG-19
Arsenic (As)-Dissolved			100.2		%		80-120	30-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4782072								
WG3148256-14 LCS								
Barium (Ba)-Dissolved			102.8		%		80-120	30-AUG-19
Beryllium (Be)-Dissolved			98.0		%		80-120	30-AUG-19
Bismuth (Bi)-Dissolved			100.4		%		80-120	30-AUG-19
Boron (B)-Dissolved			91.6		%		80-120	30-AUG-19
Cadmium (Cd)-Dissolved			103.2		%		80-120	30-AUG-19
Calcium (Ca)-Dissolved			100.5		%		80-120	30-AUG-19
Cesium (Cs)-Dissolved			107.6		%		80-120	30-AUG-19
Chromium (Cr)-Dissolved			102.3		%		80-120	30-AUG-19
Cobalt (Co)-Dissolved			102.6		%		80-120	30-AUG-19
Copper (Cu)-Dissolved			99.5		%		80-120	30-AUG-19
Iron (Fe)-Dissolved			103.4		%		80-120	30-AUG-19
Lead (Pb)-Dissolved			100.6		%		80-120	30-AUG-19
Lithium (Li)-Dissolved			95.5		%		80-120	30-AUG-19
Magnesium (Mg)-Dissolved			105.0		%		80-120	30-AUG-19
Manganese (Mn)-Dissolved			99.4		%		80-120	30-AUG-19
Molybdenum (Mo)-Dissolved			104.2		%		80-120	30-AUG-19
Nickel (Ni)-Dissolved			101.2		%		80-120	30-AUG-19
Phosphorus (P)-Dissolved			109.1		%		80-120	30-AUG-19
Potassium (K)-Dissolved			104.3		%		80-120	30-AUG-19
Rubidium (Rb)-Dissolved			97.8		%		80-120	30-AUG-19
Selenium (Se)-Dissolved			101.3		%		80-120	30-AUG-19
Silicon (Si)-Dissolved			100.9		%		80-120	30-AUG-19
Silver (Ag)-Dissolved			105.4		%		80-120	30-AUG-19
Sodium (Na)-Dissolved			98.7		%		80-120	30-AUG-19
Strontium (Sr)-Dissolved			99.7		%		80-120	30-AUG-19
Sulfur (S)-Dissolved			94.1		%		80-120	30-AUG-19
Tellurium (Te)-Dissolved			109.8		%		80-120	30-AUG-19
Thallium (Tl)-Dissolved			101.3		%		80-120	30-AUG-19
Thorium (Th)-Dissolved			98.0		%		80-120	30-AUG-19
Tin (Sn)-Dissolved			103.4		%		80-120	30-AUG-19
Titanium (Ti)-Dissolved			100.2		%		80-120	30-AUG-19
Tungsten (W)-Dissolved			103.7		%		80-120	30-AUG-19
Uranium (U)-Dissolved			97.0		%		80-120	30-AUG-19
Vanadium (V)-Dissolved			101.5		%		80-120	30-AUG-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4782072								
WG3148256-14 LCS								
Zinc (Zn)-Dissolved			98.0		%		80-120	30-AUG-19
Zirconium (Zr)-Dissolved			108.3		%		80-120	30-AUG-19
WG3148256-13 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	30-AUG-19
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Boron (B)-Dissolved			<0.010		mg/L		0.01	30-AUG-19
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	30-AUG-19
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	30-AUG-19
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	30-AUG-19
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	30-AUG-19
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	30-AUG-19
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Potassium (K)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	30-AUG-19
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4782072								
WG3148256-13 MB								
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	30-AUG-19
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	30-AUG-19
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	30-AUG-19
Zirconium (Zr)-Dissolved			<0.000060		mg/L		0.00006	30-AUG-19
WG3148256-9 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	30-AUG-19
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Boron (B)-Dissolved			<0.010		mg/L		0.01	30-AUG-19
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	30-AUG-19
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	30-AUG-19
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	30-AUG-19
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	30-AUG-19
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	30-AUG-19
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Potassium (K)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	30-AUG-19
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	30-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4782072								
WG3148256-9 MB								
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	30-AUG-19
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	30-AUG-19
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	30-AUG-19
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	30-AUG-19
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	30-AUG-19
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	30-AUG-19
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	30-AUG-19
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	30-AUG-19
Zirconium (Zr)-Dissolved			<0.000060		mg/L		0.00006	30-AUG-19
MET-T-CCMS-TB	Water							
Batch R4782648								
WG3148294-6 LCS								
Aluminum (Al)-Total			103.1		%		80-120	03-SEP-19
Antimony (Sb)-Total			108.9		%		80-120	03-SEP-19
Arsenic (As)-Total			103.3		%		80-120	03-SEP-19
Barium (Ba)-Total			102.5		%		80-120	03-SEP-19
Beryllium (Be)-Total			110.9		%		80-120	03-SEP-19
Bismuth (Bi)-Total			103.8		%		80-120	03-SEP-19
Boron (B)-Total			96.5		%		80-120	03-SEP-19
Cadmium (Cd)-Total			103.8		%		80-120	03-SEP-19
Calcium (Ca)-Total			103.2		%		80-120	03-SEP-19
Cesium (Cs)-Total			103.5		%		80-120	03-SEP-19
Chromium (Cr)-Total			103.2		%		80-120	03-SEP-19
Cobalt (Co)-Total			103.3		%		80-120	03-SEP-19
Copper (Cu)-Total			101.9		%		80-120	03-SEP-19
Iron (Fe)-Total			102.0		%		80-120	03-SEP-19
Lead (Pb)-Total			104.4		%		80-120	03-SEP-19
Lithium (Li)-Total			103.3		%		80-120	03-SEP-19
Magnesium (Mg)-Total			110.3		%		80-120	03-SEP-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4782648								
WG3148294-6 LCS								
Manganese (Mn)-Total			102.2		%		80-120	03-SEP-19
Molybdenum (Mo)-Total			105.0		%		80-120	03-SEP-19
Nickel (Ni)-Total			101.4		%		80-120	03-SEP-19
Phosphorus (P)-Total			107.9		%		80-120	03-SEP-19
Potassium (K)-Total			109.4		%		80-120	03-SEP-19
Rubidium (Rb)-Total			103.0		%		80-120	03-SEP-19
Selenium (Se)-Total			104.0		%		80-120	03-SEP-19
Silicon (Si)-Total			102.9		%		80-120	03-SEP-19
Silver (Ag)-Total			105.1		%		80-120	03-SEP-19
Sodium (Na)-Total			109.4		%		80-120	03-SEP-19
Strontium (Sr)-Total			104.6		%		80-120	03-SEP-19
Sulfur (S)-Total			88.2		%		80-120	03-SEP-19
Tellurium (Te)-Total			101.4		%		80-120	03-SEP-19
Thallium (Tl)-Total			103.7		%		80-120	03-SEP-19
Thorium (Th)-Total			99.1		%		80-120	03-SEP-19
Tin (Sn)-Total			104.2		%		80-120	03-SEP-19
Titanium (Ti)-Total			102.9		%		80-120	03-SEP-19
Tungsten (W)-Total			103.0		%		80-120	03-SEP-19
Uranium (U)-Total			95.9		%		80-120	03-SEP-19
Vanadium (V)-Total			102.8		%		80-120	03-SEP-19
Zinc (Zn)-Total			106.2		%		80-120	03-SEP-19
Zirconium (Zr)-Total			110.6		%		80-120	03-SEP-19
WG3149368-2 LCS								
Aluminum (Al)-Total			109.3		%		80-120	03-SEP-19
Antimony (Sb)-Total			104.8		%		80-120	03-SEP-19
Arsenic (As)-Total			104.9		%		80-120	03-SEP-19
Barium (Ba)-Total			107.9		%		80-120	03-SEP-19
Beryllium (Be)-Total			103.7		%		80-120	03-SEP-19
Bismuth (Bi)-Total			109.3		%		80-120	03-SEP-19
Boron (B)-Total			94.3		%		80-120	03-SEP-19
Cadmium (Cd)-Total			106.4		%		80-120	03-SEP-19
Calcium (Ca)-Total			105.8		%		80-120	03-SEP-19
Cesium (Cs)-Total			101.2		%		80-120	03-SEP-19
Chromium (Cr)-Total			108.1		%		80-120	03-SEP-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4782648								
WG3149368-2 LCS								
Cobalt (Co)-Total			103.4		%		80-120	03-SEP-19
Copper (Cu)-Total			105.0		%		80-120	03-SEP-19
Iron (Fe)-Total			105.1		%		80-120	03-SEP-19
Lead (Pb)-Total			106.6		%		80-120	03-SEP-19
Lithium (Li)-Total			94.2		%		80-120	03-SEP-19
Magnesium (Mg)-Total			115.2		%		80-120	03-SEP-19
Manganese (Mn)-Total			108.0		%		80-120	03-SEP-19
Molybdenum (Mo)-Total			105.2		%		80-120	03-SEP-19
Nickel (Ni)-Total			103.9		%		80-120	03-SEP-19
Phosphorus (P)-Total			115.0		%		80-120	03-SEP-19
Potassium (K)-Total			119.0		%		80-120	03-SEP-19
Rubidium (Rb)-Total			106.0		%		80-120	03-SEP-19
Selenium (Se)-Total			104.4		%		80-120	03-SEP-19
Silicon (Si)-Total			107.3		%		80-120	03-SEP-19
Silver (Ag)-Total			102.8		%		80-120	03-SEP-19
Sodium (Na)-Total			112.0		%		80-120	03-SEP-19
Strontium (Sr)-Total			106.1		%		80-120	03-SEP-19
Sulfur (S)-Total			89.0		%		80-120	03-SEP-19
Tellurium (Te)-Total			103.0		%		80-120	03-SEP-19
Thallium (Tl)-Total			104.7		%		80-120	03-SEP-19
Thorium (Th)-Total			100.5		%		80-120	03-SEP-19
Tin (Sn)-Total			102.8		%		80-120	03-SEP-19
Titanium (Ti)-Total			104.2		%		80-120	03-SEP-19
Tungsten (W)-Total			107.5		%		80-120	03-SEP-19
Uranium (U)-Total			96.4		%		80-120	03-SEP-19
Vanadium (V)-Total			107.1		%		80-120	03-SEP-19
Zinc (Zn)-Total			108.0		%		80-120	03-SEP-19
Zirconium (Zr)-Total			110.8		%		80-120	03-SEP-19
WG3148294-5 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	03-SEP-19
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Arsenic (As)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Barium (Ba)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	03-SEP-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4782648								
WG3148294-5 MB								
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	03-SEP-19
Boron (B)-Total			<0.010		mg/L		0.01	03-SEP-19
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	03-SEP-19
Calcium (Ca)-Total			<0.050		mg/L		0.05	03-SEP-19
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	03-SEP-19
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Copper (Cu)-Total			<0.00050		mg/L		0.0005	03-SEP-19
Iron (Fe)-Total			<0.010		mg/L		0.01	03-SEP-19
Lead (Pb)-Total			<0.000050		mg/L		0.00005	03-SEP-19
Lithium (Li)-Total			<0.0010		mg/L		0.001	03-SEP-19
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	03-SEP-19
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	03-SEP-19
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	03-SEP-19
Phosphorus (P)-Total			<0.050		mg/L		0.05	03-SEP-19
Potassium (K)-Total			<0.050		mg/L		0.05	03-SEP-19
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	03-SEP-19
Selenium (Se)-Total			<0.000050		mg/L		0.00005	03-SEP-19
Silicon (Si)-Total			<0.10		mg/L		0.1	03-SEP-19
Silver (Ag)-Total			<0.000010		mg/L		0.00001	03-SEP-19
Sodium (Na)-Total			<0.050		mg/L		0.05	03-SEP-19
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	03-SEP-19
Sulfur (S)-Total			<0.50		mg/L		0.5	03-SEP-19
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	03-SEP-19
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	03-SEP-19
Thorium (Th)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Tin (Sn)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	03-SEP-19
Tungsten (W)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Uranium (U)-Total			<0.000010		mg/L		0.00001	03-SEP-19
Vanadium (V)-Total			<0.00050		mg/L		0.0005	03-SEP-19
Zinc (Zn)-Total			<0.0030		mg/L		0.003	03-SEP-19
Zirconium (Zr)-Total			<0.000060		mg/L		0.00006	03-SEP-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4782648								
WG3149368-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	03-SEP-19
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Arsenic (As)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Barium (Ba)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	03-SEP-19
Boron (B)-Total			<0.010		mg/L		0.01	03-SEP-19
Cadmium (Cd)-Total			<0.000005C		mg/L		0.000005	03-SEP-19
Calcium (Ca)-Total			<0.050		mg/L		0.05	03-SEP-19
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	03-SEP-19
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Copper (Cu)-Total			<0.00050		mg/L		0.0005	03-SEP-19
Iron (Fe)-Total			<0.010		mg/L		0.01	03-SEP-19
Lead (Pb)-Total			<0.000050		mg/L		0.00005	03-SEP-19
Lithium (Li)-Total			<0.0010		mg/L		0.001	03-SEP-19
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	03-SEP-19
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	03-SEP-19
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	03-SEP-19
Phosphorus (P)-Total			<0.050		mg/L		0.05	03-SEP-19
Potassium (K)-Total			<0.050		mg/L		0.05	03-SEP-19
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	03-SEP-19
Selenium (Se)-Total			<0.000050		mg/L		0.00005	03-SEP-19
Silicon (Si)-Total			<0.10		mg/L		0.1	03-SEP-19
Silver (Ag)-Total			<0.000010		mg/L		0.00001	03-SEP-19
Sodium (Na)-Total			<0.050		mg/L		0.05	03-SEP-19
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	03-SEP-19
Sulfur (S)-Total			<0.50		mg/L		0.5	03-SEP-19
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	03-SEP-19
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	03-SEP-19
Thorium (Th)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Tin (Sn)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	03-SEP-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4782648								
WG3149368-1 MB								
Tungsten (W)-Total			<0.00010		mg/L		0.0001	03-SEP-19
Uranium (U)-Total			<0.000010		mg/L		0.00001	03-SEP-19
Vanadium (V)-Total			<0.00050		mg/L		0.0005	03-SEP-19
Zinc (Zn)-Total			<0.0030		mg/L		0.003	03-SEP-19
Zirconium (Zr)-Total			<0.000060		mg/L		0.00006	03-SEP-19
WG3149368-4 MS		**L2338207-6**						
Aluminum (Al)-Total			104.4		%		70-130	03-SEP-19
Antimony (Sb)-Total			100.3		%		70-130	03-SEP-19
Arsenic (As)-Total			100.8		%		70-130	03-SEP-19
Barium (Ba)-Total			N/A	MS-B	%		-	03-SEP-19
Beryllium (Be)-Total			97.4		%		70-130	03-SEP-19
Bismuth (Bi)-Total			95.3		%		70-130	03-SEP-19
Boron (B)-Total			93.5		%		70-130	03-SEP-19
Cadmium (Cd)-Total			102.4		%		70-120	03-SEP-19
Calcium (Ca)-Total			N/A	MS-B	%		-	03-SEP-19
Cesium (Cs)-Total			97.9		%		70-130	03-SEP-19
Chromium (Cr)-Total			102.5		%		70-130	03-SEP-19
Cobalt (Co)-Total			99.3		%		70-130	03-SEP-19
Copper (Cu)-Total			N/A	MS-B	%		-	03-SEP-19
Iron (Fe)-Total			105.3		%		70-130	03-SEP-19
Lead (Pb)-Total			97.8		%		70-130	03-SEP-19
Lithium (Li)-Total			100.0		%		70-130	03-SEP-19
Magnesium (Mg)-Total			N/A	MS-B	%		-	03-SEP-19
Manganese (Mn)-Total			N/A	MS-B	%		-	03-SEP-19
Molybdenum (Mo)-Total			100.2		%		70-130	03-SEP-19
Nickel (Ni)-Total			98.4		%		70-130	03-SEP-19
Phosphorus (P)-Total			104.7		%		70-130	03-SEP-19
Potassium (K)-Total			102.2		%		70-130	03-SEP-19
Rubidium (Rb)-Total			95.6		%		70-130	03-SEP-19
Selenium (Se)-Total			98.5		%		70-130	03-SEP-19
Silicon (Si)-Total			81.4		%		70-130	03-SEP-19
Silver (Ag)-Total			96.3		%		70-130	03-SEP-19
Sodium (Na)-Total			N/A	MS-B	%		-	03-SEP-19
Strontium (Sr)-Total			N/A	MS-B	%		-	03-SEP-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4782648								
WG3149368-4 MS		**L2338207-6**						
Sulfur (S)-Total			89.3		%		70-130	03-SEP-19
Tellurium (Te)-Total			98.1		%		70-130	03-SEP-19
Thallium (Tl)-Total			93.8		%		70-130	03-SEP-19
Thorium (Th)-Total			97.7		%		70-130	03-SEP-19
Tin (Sn)-Total			97.6		%		70-130	03-SEP-19
Titanium (Ti)-Total			99.5		%		70-130	03-SEP-19
Tungsten (W)-Total			100.4		%		70-130	03-SEP-19
Uranium (U)-Total			94.5		%		70-130	03-SEP-19
Vanadium (V)-Total			101.5		%		70-130	03-SEP-19
Zinc (Zn)-Total			N/A	MS-B	%		-	03-SEP-19
Zirconium (Zr)-Total			106.2		%		70-130	03-SEP-19
NH3-COL-TB	Water							
Batch R4778343								
WG3148325-19 DUP		**L2338207-2**						
Ammonia, Total (as N)		0.118	0.121		mg/L	2.3	20	30-AUG-19
WG3148325-14 LCS								
Ammonia, Total (as N)			98.4		%		85-115	30-AUG-19
WG3148325-18 LCS								
Ammonia, Total (as N)			99.1		%		85-115	30-AUG-19
WG3148325-13 MB								
Ammonia, Total (as N)			<0.020		mg/L		0.02	30-AUG-19
WG3148325-17 MB								
Ammonia, Total (as N)			<0.020		mg/L		0.02	30-AUG-19
WG3148325-20 MS		**L2338207-3**						
Ammonia, Total (as N)			81.0		%		75-125	30-AUG-19
NO2-IC-N-TB	Water							
Batch R4779231								
WG3148833-2 LCS								
Nitrite (as N)			102.2		%		90-110	30-AUG-19
WG3148833-6 LCS								
Nitrite (as N)			102.8		%		90-110	30-AUG-19
WG3148833-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	30-AUG-19
WG3148833-5 MB								
Nitrite (as N)			<0.010		mg/L		0.01	30-AUG-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-IC-N-TB	Water							
Batch R4780012								
WG3149847-2 LCS								
Nitrite (as N)			101.2		%		90-110	01-SEP-19
WG3149847-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	01-SEP-19
NO3-IC-N-TB	Water							
Batch R4779231								
WG3148833-2 LCS								
Nitrate (as N)			97.0		%		90-110	30-AUG-19
WG3148833-6 LCS								
Nitrate (as N)			99.2		%		90-110	30-AUG-19
WG3148833-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	30-AUG-19
WG3148833-5 MB								
Nitrate (as N)			<0.020		mg/L		0.02	30-AUG-19
WG3148833-8 MS		**L2338207-9**						
Nitrate (as N)			79.8		%		75-125	30-AUG-19
P-T-COL-TB	Water							
Batch R4781589								
WG3148337-3 DUP		**L2338207-1**						
Phosphorus (P)-Total		0.0069	0.0059		mg/L	17	20	03-SEP-19
WG3148337-2 LCS								
Phosphorus (P)-Total			109.2		%		80-120	03-SEP-19
WG3148337-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	03-SEP-19
WG3148337-4 MS		**L2338207-2**						
Phosphorus (P)-Total			109.6		%		70-130	03-SEP-19
PH-METER-TB	Water							
Batch R4777648								
WG3147665-2 DUP		**L2338207-3**						
pH		7.02	7.03	J	pH	0.01	0.2	29-AUG-19
WG3147665-1 LCS		**METER**						
pH			6.93		pH		6.9-7.1	29-AUG-19
SIO2-COL-WP	Water							
Batch R4783888								
WG3153058-2 LCS								
Silica, Reactive (as SiO2)			102.1		%		85-115	04-SEP-19
WG3153058-1 MB								

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SIO2-COL-WP	Water							
Batch R4783888								
WG3153058-1 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	04-SEP-19
SO4-IC-N-TB	Water							
Batch R4779231								
WG3148833-2 LCS								
Sulfate (SO4)			101.4		%		90-110	30-AUG-19
WG3148833-6 LCS								
Sulfate (SO4)			99.2		%		90-110	30-AUG-19
WG3148833-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	30-AUG-19
WG3148833-5 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	30-AUG-19
WG3148833-8 MS		**L2338207-9**						
Sulfate (SO4)			83.9		%		75-125	30-AUG-19
TDS-TB	Water							
Batch R4778949								
WG3148399-3 DUP		**L2338207-6**						
Total Dissolved Solids		355	356		mg/L	0.4	20	30-AUG-19
WG3148399-2 LCS								
Total Dissolved Solids			95.3		%		85-115	30-AUG-19
WG3148399-1 MB								
Total Dissolved Solids			<10		mg/L		10	30-AUG-19
TSS-TB	Water							
Batch R4778887								
WG3147745-2 LCS								
Total Suspended Solids			95.6		%		85-115	30-AUG-19
WG3147745-1 MB								
Total Suspended Solids			<2.0		mg/L		2	30-AUG-19

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	24-AUG-19 10:15	29-AUG-19 17:20	4	5	days	EHTR
	2	24-AUG-19 00:01	29-AUG-19 17:20	4	6	days	EHTR
	3	24-AUG-19 14:35	29-AUG-19 17:20	4	5	days	EHTR
	4	24-AUG-19 18:20	29-AUG-19 17:20	4	5	days	EHTR
Anions and Nutrients							
Alkalinity Species by Titration							
	1	24-AUG-19 10:15	10-SEP-19 12:58	14	17	days	EHT
	2	24-AUG-19 00:01	10-SEP-19 12:58	14	18	days	EHT
	3	24-AUG-19 14:35	10-SEP-19 12:58	14	17	days	EHT
	4	24-AUG-19 18:20	10-SEP-19 12:58	14	17	days	EHT
	5	25-AUG-19 10:45	10-SEP-19 12:58	14	16	days	EHT
	6	25-AUG-19 14:15	10-SEP-19 12:58	14	16	days	EHT
	7	25-AUG-19 18:35	10-SEP-19 12:58	14	16	days	EHT
	8	25-AUG-19 12:15	10-SEP-19 12:58	14	16	days	EHT
	10	26-AUG-19 00:01	10-SEP-19 12:58	14	16	days	EHT

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2338207 were received on 29-AUG-19 09:40.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2338207-COFC

COC Number: 17 -

Page 1 of

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchalna
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	1800-925 West Georgia Street
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☑ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	dmchalna@firstmininggold.com
Email 2	shila@firstmininggold.com
Email 3	glenn_ffc@ns.aliantzinc.ca

Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☑ MAIL ☐ FAX
Email 1 or Fax	
Email 2	

Project Information	
ALS Account # / Quote #:	20884 / Q84154
Job #:	
PO / AFE:	
LSD:	
ALS Lab Work Order # (lab use only):	L2338207

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact:	Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

NUMBER OF CONTAINERS

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity, F, P, O	Total Metals	Dissolved Metals	Reactive Silica	F, Hardness, NO2, NO3, pH, SO4	Total Phosphorous, TSS	TDS
	Aug	23-Aug-19	15:30	Ground Water	R	R	R	R	R	R	R
	3134-BL0385-108m	24-Aug-19	10:15	Ground Water	R	R	R	R	R	R	R
	3134-BLDup-1	xxxx	xxxx	Ground Water	R	R	R	R	R	R	R
	3134-BL364-104m	24-Aug-19	14:35	Ground Water	R	R	R	R	R	R	R
	3134-BL52-60m	24-Aug-19	18:20	Ground Water	R	R	R	R	R	R	R
	3134-BL52-138m	25-Aug-19	10:45	Ground Water	R	R	R	R	R	R	R
	3134-BL52-238m	25-Aug-19	14:15	Ground Water	R	R	R	R	R	R	R
	3134-BL52-435m	25-Aug-19	18:35	Ground Water	R	R	R	R	R	R	R
	3134-BL-310-60m	26-Aug-19	12:15	Ground Water	R	R	R	R	R	R	R
	3134-MW2	26-Aug-19	15:30	Ground Water	R	R	R	R	R	R	R

SAMPLES ON HOLD

SUSPECTED HAZARD (see Special Instructions)

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
12.3							

SHIPMENT RELEASE (client use)		
Released by:	08/27/19	Time:

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by: SD	Date: Aug 29/2019	Time: 9:40

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

5

L2338207-COFC

Client: Gold Canyon

Sample Layout Verification:	Verified By	Date	Time	Sample Integrity Issues: Enter information on back page
	SD	Aug. 29/2019	9:48	
Labels Verification:	**Verified By**			**Do any samples require prep?**
	Sf			NO (P) F/P Fraction 9.

		Sample #:																
1L	Plastic																	
500mL	Plastic																	
250mL	Plastic																	
145mL	Plastic																	
60mL	Plastic																	
Micro																		
Toxicity Pail																		
1L	Glass																	
500mL	Glass																	
250mL	Glass																	
120mL	Glass																	
60mL	Glass																	
40mL	Vial (Glass)																	
40mL	Methanol Vials																	
Soil Jar (120, 250 or 500mL)																		
Other:																		
Other:																		
Total Number of Bottles																		

Trip/Travel/Field Blank Information

Solids Batch#:	Metals Batch#:	T:	D:
Routine Batch#:	Mercury Batch#:	T:	D:
BOD Batch#:	Cyanide Batch#:	T:	D:
Nutrients Batch#:	OGG Batch#:		
DOC/Carbon Batch#:	Phenols Batch#:		
VOC Batch#:			
Other:			

COOLER TRACKING

EPP		Coleman	
Small		Micro (5QT)	
Med		Sm(9QT)	
Lrg		Med(16QT)	
Micro Box		Lrg(28QT)	
		Lrg(48QT)	

GOLD CANYON RESOURCES INC.
ATTN: David Mchaina
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 03-OCT-19
Report Date: 16-OCT-19 12:05 (MT)
Version: FINAL

Client Phone: 705-929-5245

Certificate of Analysis

Lab Work Order #: L2358839

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE GW
C of C Numbers:
Legal Site Desc: First Mining Gold Project

Amanda Loesch
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2358839-1 3134 - MW - B000 - WS1 Sampled By: CLIENT on 29-SEP-19 @ 14:45 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	484		1.0	uS/cm		03-OCT-19	R4858671
Hardness (as CaCO3)	317	HTC	0.63	mg/L		08-OCT-19	
pH	7.80		0.10	pH		03-OCT-19	R4858671
Total Suspended Solids	385		6.0	mg/L		06-OCT-19	R4860489
Total Dissolved Solids	320		20	mg/L		04-OCT-19	R4859725
Anions and Nutrients							
Acidity (as CaCO3)	13.4		2.0	mg/L		03-OCT-19	R4858671
Alkalinity, Total (as CaCO3)	298		2.0	mg/L		04-OCT-19	R4859702
Ammonia, Total (as N)	1.09		0.20	mg/L		07-OCT-19	R4861362
Bromide (Br)	<0.10		0.10	mg/L		03-OCT-19	R4858733
Chloride (Cl)	0.54		0.10	mg/L		03-OCT-19	R4858733
Fluoride (F)	0.029		0.020	mg/L		03-OCT-19	R4858733
Nitrate (as N)	0.132		0.020	mg/L		03-OCT-19	R4858733
Nitrite (as N)	<0.010		0.010	mg/L		03-OCT-19	R4858733
Phosphorus (P)-Total	0.221		0.030	mg/L	04-OCT-19	07-OCT-19	R4860687
Sulfate (SO4)	0.43		0.30	mg/L		03-OCT-19	R4858733
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		07-OCT-19	R4861496
Organic / Inorganic Carbon							
Dissolved Organic Carbon	23.1		0.50	mg/L		11-OCT-19	R4868492
Total Metals							
Aluminum (Al)-Total	1.76		0.015	mg/L	04-OCT-19	04-OCT-19	R4860458
Antimony (Sb)-Total	<0.00050	DLM	0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Arsenic (As)-Total	0.00066		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Barium (Ba)-Total	0.0888		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Beryllium (Be)-Total	<0.00050	DLM	0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Bismuth (Bi)-Total	<0.00025	DLM	0.00025	mg/L	04-OCT-19	04-OCT-19	R4860458
Boron (B)-Total	<0.050	DLM	0.050	mg/L	04-OCT-19	04-OCT-19	R4860458
Cadmium (Cd)-Total	0.000029		0.000025	mg/L	04-OCT-19	04-OCT-19	R4860458
Calcium (Ca)-Total	111		0.25	mg/L	04-OCT-19	04-OCT-19	R4860458
Cesium (Cs)-Total	0.000238		0.000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Chromium (Cr)-Total	0.00629		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Cobalt (Co)-Total	0.00152		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Copper (Cu)-Total	0.0048		0.0025	mg/L	04-OCT-19	04-OCT-19	R4860458
Iron (Fe)-Total	4.64		0.050	mg/L	04-OCT-19	04-OCT-19	R4860458
Lead (Pb)-Total	0.00100		0.00025	mg/L	04-OCT-19	04-OCT-19	R4860458
Lithium (Li)-Total	0.0060		0.0050	mg/L	04-OCT-19	04-OCT-19	R4860458
Magnesium (Mg)-Total	10.0		0.025	mg/L	04-OCT-19	04-OCT-19	R4860458
Manganese (Mn)-Total	0.569		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Molybdenum (Mo)-Total	0.00040		0.00025	mg/L	04-OCT-19	07-OCT-19	R4861385
Nickel (Ni)-Total	0.0044		0.0025	mg/L	04-OCT-19	04-OCT-19	R4860458
Phosphorus (P)-Total	<0.25	DLM	0.25	mg/L	04-OCT-19	04-OCT-19	R4860458

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2358839-1 3134 - MW - B000 - WS1 Sampled By: CLIENT on 29-SEP-19 @ 14:45 Matrix: Ground Water							
Total Metals							
Potassium (K)-Total	3.35		0.25	mg/L	04-OCT-19	04-OCT-19	R4860458
Rubidium (Rb)-Total	0.0062		0.0010	mg/L	04-OCT-19	04-OCT-19	R4860458
Selenium (Se)-Total	<0.00025	DLM	0.00025	mg/L	04-OCT-19	04-OCT-19	R4860458
Silicon (Si)-Total	11.6		0.50	mg/L	04-OCT-19	04-OCT-19	R4860458
Silver (Ag)-Total	<0.000050	DLM	0.000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Sodium (Na)-Total	3.74		0.25	mg/L	04-OCT-19	04-OCT-19	R4860458
Strontium (Sr)-Total	0.149		0.0010	mg/L	04-OCT-19	04-OCT-19	R4860458
Sulfur (S)-Total	<2.5	DLM	2.5	mg/L	04-OCT-19	04-OCT-19	R4860458
Tellurium (Te)-Total	<0.0010	DLM	0.0010	mg/L	04-OCT-19	04-OCT-19	R4860458
Thallium (Tl)-Total	<0.000050	DLM	0.000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Thorium (Th)-Total	<0.00050	DLM	0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Tin (Sn)-Total	0.00226		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Titanium (Ti)-Total	0.117		0.0015	mg/L	04-OCT-19	04-OCT-19	R4860458
Tungsten (W)-Total	<0.00050	DLM	0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Uranium (U)-Total	0.000246		0.000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Vanadium (V)-Total	0.0063		0.0025	mg/L	04-OCT-19	04-OCT-19	R4860458
Zinc (Zn)-Total	<0.015	DLM	0.015	mg/L	04-OCT-19	04-OCT-19	R4860458
Zirconium (Zr)-Total	<0.0010	DLM	0.0010	mg/L	04-OCT-19	04-OCT-19	R4860458
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					05-OCT-19	R4859825
Dissolved Metals Filtration Location	FIELD					03-OCT-19	R4858710
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	05-OCT-19	05-OCT-19	R4859686
L2358839-2 3134 - MW - E080 - WS1 Sampled By: CLIENT on 29-SEP-19 @ 13:50 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	177		1.0	uS/cm		03-OCT-19	R4858671
Hardness (as CaCO3)	272	HTC	0.63	mg/L		08-OCT-19	
pH	7.14		0.10	pH		03-OCT-19	R4858671
Total Suspended Solids	4850		15	mg/L		06-OCT-19	R4860489
Total Dissolved Solids	159		40	mg/L		04-OCT-19	R4859725
Anions and Nutrients							
Acidity (as CaCO3)	18.8		2.0	mg/L		03-OCT-19	R4858671
Alkalinity, Total (as CaCO3)	105		2.0	mg/L		04-OCT-19	R4859702
Ammonia, Total (as N)	0.846		0.020	mg/L		07-OCT-19	R4861362
Bromide (Br)	<0.10		0.10	mg/L		04-OCT-19	R4860592
Chloride (Cl)	0.39		0.10	mg/L		04-OCT-19	R4860592
Fluoride (F)	0.024		0.020	mg/L		04-OCT-19	R4860592
Nitrate (as N)	<0.020		0.020	mg/L		04-OCT-19	R4860592
Nitrite (as N)	<0.010		0.010	mg/L		04-OCT-19	R4860592
Phosphorus (P)-Total	0.411		0.015	mg/L	04-OCT-19	07-OCT-19	R4860687
Sulfate (SO4)	0.37		0.30	mg/L		04-OCT-19	R4860592

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2358839-2 3134 - MW - E080 - WS1 Sampled By: CLIENT on 29-SEP-19 @ 13:50 Matrix: Ground Water							
Anions and Nutrients							
Cyanides							
Cyanide, Total	<0.020	DLM	0.020	mg/L		07-OCT-19	R4861496
Organic / Inorganic Carbon							
Dissolved Organic Carbon	19.5		0.50	mg/L		13-OCT-19	R4869827
Total Metals							
Aluminum (Al)-Total	2.18		0.015	mg/L	04-OCT-19	04-OCT-19	R4860458
Antimony (Sb)-Total	<0.00050	DLM	0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Arsenic (As)-Total	0.00076		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Barium (Ba)-Total	0.105		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Beryllium (Be)-Total	<0.00050	DLM	0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Bismuth (Bi)-Total	<0.00025	DLM	0.00025	mg/L	04-OCT-19	04-OCT-19	R4860458
Boron (B)-Total	<0.050	DLM	0.050	mg/L	04-OCT-19	04-OCT-19	R4860458
Cadmium (Cd)-Total	0.000028		0.000025	mg/L	04-OCT-19	04-OCT-19	R4860458
Calcium (Ca)-Total	98.9		0.25	mg/L	04-OCT-19	04-OCT-19	R4860458
Cesium (Cs)-Total	0.000269		0.000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Chromium (Cr)-Total	0.0148		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Cobalt (Co)-Total	0.00181		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Copper (Cu)-Total	0.0071		0.0025	mg/L	04-OCT-19	04-OCT-19	R4860458
Iron (Fe)-Total	20.4		0.050	mg/L	04-OCT-19	04-OCT-19	R4860458
Lead (Pb)-Total	0.00117		0.00025	mg/L	04-OCT-19	04-OCT-19	R4860458
Lithium (Li)-Total	0.0078		0.0050	mg/L	04-OCT-19	04-OCT-19	R4860458
Magnesium (Mg)-Total	6.01		0.025	mg/L	04-OCT-19	04-OCT-19	R4860458
Manganese (Mn)-Total	0.449		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Molybdenum (Mo)-Total	0.00072		0.00025	mg/L	04-OCT-19	07-OCT-19	R4861385
Nickel (Ni)-Total	0.0056		0.0025	mg/L	04-OCT-19	04-OCT-19	R4860458
Phosphorus (P)-Total	<0.25	DLM	0.25	mg/L	04-OCT-19	04-OCT-19	R4860458
Potassium (K)-Total	2.46		0.25	mg/L	04-OCT-19	04-OCT-19	R4860458
Rubidium (Rb)-Total	0.0050		0.0010	mg/L	04-OCT-19	04-OCT-19	R4860458
Selenium (Se)-Total	<0.00025	DLM	0.00025	mg/L	04-OCT-19	04-OCT-19	R4860458
Silicon (Si)-Total	13.6		0.50	mg/L	04-OCT-19	04-OCT-19	R4860458
Silver (Ag)-Total	<0.000050	DLM	0.000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Sodium (Na)-Total	2.76		0.25	mg/L	04-OCT-19	04-OCT-19	R4860458
Strontium (Sr)-Total	0.117		0.0010	mg/L	04-OCT-19	04-OCT-19	R4860458
Sulfur (S)-Total	<2.5	DLM	2.5	mg/L	04-OCT-19	04-OCT-19	R4860458
Tellurium (Te)-Total	<0.0010	DLM	0.0010	mg/L	04-OCT-19	04-OCT-19	R4860458
Thallium (Tl)-Total	<0.000050	DLM	0.000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Thorium (Th)-Total	0.00113		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Tin (Sn)-Total	0.00052		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Titanium (Ti)-Total	0.170		0.0015	mg/L	04-OCT-19	04-OCT-19	R4860458
Tungsten (W)-Total	0.00065		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Uranium (U)-Total	0.000278		0.000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Vanadium (V)-Total	0.0196		0.0025	mg/L	04-OCT-19	04-OCT-19	R4860458

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2358839-2 3134 - MW - E080 - WS1 Sampled By: CLIENT on 29-SEP-19 @ 13:50 Matrix: Ground Water							
Total Metals							
Zinc (Zn)-Total	<0.015	DLM	0.015	mg/L	04-OCT-19	04-OCT-19	R4860458
Zirconium (Zr)-Total	0.0039		0.0010	mg/L	04-OCT-19	04-OCT-19	R4860458
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					05-OCT-19	R4859825
Dissolved Metals Filtration Location	FIELD					03-OCT-19	R4858710
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	05-OCT-19	05-OCT-19	R4859686
L2358839-3 3134 - MW - K034 - WS1 Sampled By: CLIENT on 29-SEP-19 @ 16:20 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	431		1.0	uS/cm		03-OCT-19	R4858671
Hardness (as CaCO3)	249		0.50	mg/L		09-OCT-19	
pH	6.83		0.10	pH		03-OCT-19	R4858671
Total Suspended Solids	1760		15	mg/L		06-OCT-19	R4860489
Total Dissolved Solids	298		40	mg/L		04-OCT-19	R4859725
Anions and Nutrients							
Acidity (as CaCO3)	87.7		2.0	mg/L		03-OCT-19	R4858671
Alkalinity, Total (as CaCO3)	258		2.0	mg/L		04-OCT-19	R4859702
Ammonia, Total (as N)	2.48		0.20	mg/L		07-OCT-19	R4861362
Bromide (Br)	<0.10		0.10	mg/L		03-OCT-19	R4858733
Chloride (Cl)	0.14		0.10	mg/L		03-OCT-19	R4858733
Fluoride (F)	<0.020		0.020	mg/L		03-OCT-19	R4858733
Nitrate (as N)	<0.020		0.020	mg/L		03-OCT-19	R4858733
Nitrite (as N)	<0.010		0.010	mg/L		03-OCT-19	R4858733
Phosphorus (P)-Total	0.204		0.015	mg/L	04-OCT-19	07-OCT-19	R4860687
Sulfate (SO4)	<0.30		0.30	mg/L		03-OCT-19	R4858733
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		07-OCT-19	R4861496
Organic / Inorganic Carbon							
Dissolved Organic Carbon	29.8		0.50	mg/L		11-OCT-19	R4868492
Total Metals							
Aluminum (Al)-Total	2.23		0.015	mg/L	04-OCT-19	08-OCT-19	R4862314
Antimony (Sb)-Total	<0.00050		0.00050	mg/L	04-OCT-19	08-OCT-19	R4862314
Arsenic (As)-Total	0.00067		0.00050	mg/L	04-OCT-19	08-OCT-19	R4862314
Barium (Ba)-Total	0.103		0.00050	mg/L	04-OCT-19	08-OCT-19	R4862314
Beryllium (Be)-Total	<0.00050		0.00050	mg/L	04-OCT-19	08-OCT-19	R4862314
Bismuth (Bi)-Total	<0.00025		0.00025	mg/L	04-OCT-19	08-OCT-19	R4862314
Boron (B)-Total	<0.050		0.050	mg/L	04-OCT-19	08-OCT-19	R4862314
Cadmium (Cd)-Total	0.000029		0.000025	mg/L	04-OCT-19	08-OCT-19	R4862314
Calcium (Ca)-Total	96.1		0.25	mg/L	04-OCT-19	08-OCT-19	R4862314
Cesium (Cs)-Total	0.000250		0.000050	mg/L	04-OCT-19	08-OCT-19	R4862314
Chromium (Cr)-Total	0.0147		0.00050	mg/L	04-OCT-19	08-OCT-19	R4862314

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2358839-3 3134 - MW - K034 - WS1 Sampled By: CLIENT on 29-SEP-19 @ 16:20 Matrix: Ground Water							
Total Metals							
Cobalt (Co)-Total	0.00177		0.00050	mg/L	04-OCT-19	08-OCT-19	R4862314
Copper (Cu)-Total	0.0082		0.0025	mg/L	04-OCT-19	08-OCT-19	R4862314
Iron (Fe)-Total	19.9		0.050	mg/L	04-OCT-19	08-OCT-19	R4862314
Lead (Pb)-Total	0.00118		0.00025	mg/L	04-OCT-19	08-OCT-19	R4862314
Lithium (Li)-Total	<0.0050		0.0050	mg/L	04-OCT-19	08-OCT-19	R4862314
Magnesium (Mg)-Total	5.88		0.025	mg/L	04-OCT-19	08-OCT-19	R4862314
Manganese (Mn)-Total	0.431		0.00050	mg/L	04-OCT-19	08-OCT-19	R4862314
Molybdenum (Mo)-Total	0.00064		0.00025	mg/L	04-OCT-19	08-OCT-19	R4862314
Nickel (Ni)-Total	0.0056		0.0025	mg/L	04-OCT-19	08-OCT-19	R4862314
Phosphorus (P)-Total	<0.25		0.25	mg/L	04-OCT-19	08-OCT-19	R4862314
Potassium (K)-Total	2.37		0.25	mg/L	04-OCT-19	08-OCT-19	R4862314
Rubidium (Rb)-Total	0.0051		0.0010	mg/L	04-OCT-19	08-OCT-19	R4862314
Selenium (Se)-Total	<0.00025		0.00025	mg/L	04-OCT-19	08-OCT-19	R4862314
Silicon (Si)-Total	13.8		0.50	mg/L	04-OCT-19	08-OCT-19	R4862314
Silver (Ag)-Total	<0.000050		0.000050	mg/L	04-OCT-19	08-OCT-19	R4862314
Sodium (Na)-Total	2.79		0.25	mg/L	04-OCT-19	08-OCT-19	R4862314
Strontium (Sr)-Total	0.111		0.0010	mg/L	04-OCT-19	08-OCT-19	R4862314
Sulfur (S)-Total	<2.5		2.5	mg/L	04-OCT-19	08-OCT-19	R4862314
Tellurium (Te)-Total	<0.0010		0.0010	mg/L	04-OCT-19	08-OCT-19	R4862314
Thallium (Tl)-Total	<0.000050		0.000050	mg/L	04-OCT-19	08-OCT-19	R4862314
Thorium (Th)-Total	0.00102		0.00050	mg/L	04-OCT-19	08-OCT-19	R4862314
Tin (Sn)-Total	0.00050		0.00050	mg/L	04-OCT-19	08-OCT-19	R4862314
Titanium (Ti)-Total	0.165		0.0015	mg/L	04-OCT-19	08-OCT-19	R4862314
Tungsten (W)-Total	0.00060		0.00050	mg/L	04-OCT-19	08-OCT-19	R4862314
Uranium (U)-Total	0.000284		0.000050	mg/L	04-OCT-19	08-OCT-19	R4862314
Vanadium (V)-Total	0.0186		0.0025	mg/L	04-OCT-19	08-OCT-19	R4862314
Zinc (Zn)-Total	<0.015		0.015	mg/L	04-OCT-19	08-OCT-19	R4862314
Zirconium (Zr)-Total	0.0047		0.0010	mg/L	04-OCT-19	08-OCT-19	R4862314
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					05-OCT-19	R4859825
Dissolved Metals Filtration Location	FIELD					03-OCT-19	R4858710
Aluminum (Al)-Dissolved	0.0660		0.0010	mg/L	03-OCT-19	03-OCT-19	R4858800
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Arsenic (As)-Dissolved	0.00032		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Barium (Ba)-Dissolved	0.0945		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	03-OCT-19	03-OCT-19	R4858800
Boron (B)-Dissolved	<0.010		0.010	mg/L	03-OCT-19	03-OCT-19	R4858800
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	03-OCT-19	03-OCT-19	R4858800
Calcium (Ca)-Dissolved	93.0		0.050	mg/L	03-OCT-19	03-OCT-19	R4858800
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	03-OCT-19	03-OCT-19	R4858800

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2358839-3 3134 - MW - K034 - WS1 Sampled By: CLIENT on 29-SEP-19 @ 16:20 Matrix: Ground Water							
Dissolved Metals							
Chromium (Cr)-Dissolved	0.00651		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Cobalt (Co)-Dissolved	0.00042		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Copper (Cu)-Dissolved	0.00026		0.00020	mg/L	03-OCT-19	03-OCT-19	R4858800
Iron (Fe)-Dissolved	16.6		0.010	mg/L	03-OCT-19	03-OCT-19	R4858800
Lead (Pb)-Dissolved	0.000122		0.000050	mg/L	03-OCT-19	03-OCT-19	R4858800
Lithium (Li)-Dissolved	0.0036		0.0010	mg/L	03-OCT-19	03-OCT-19	R4858800
Magnesium (Mg)-Dissolved	3.99		0.0050	mg/L	03-OCT-19	03-OCT-19	R4858800
Manganese (Mn)-Dissolved	0.398		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	05-OCT-19	05-OCT-19	R4859686
Molybdenum (Mo)-Dissolved	0.000717		0.000050	mg/L	03-OCT-19	03-OCT-19	R4858800
Nickel (Ni)-Dissolved	0.00142		0.00050	mg/L	03-OCT-19	03-OCT-19	R4858800
Phosphorus (P)-Dissolved	0.113		0.050	mg/L	03-OCT-19	03-OCT-19	R4858800
Potassium (K)-Dissolved	2.06		0.050	mg/L	03-OCT-19	03-OCT-19	R4858800
Rubidium (Rb)-Dissolved	0.00106		0.00020	mg/L	03-OCT-19	03-OCT-19	R4858800
Selenium (Se)-Dissolved	0.000156		0.000050	mg/L	03-OCT-19	03-OCT-19	R4858800
Silicon (Si)-Dissolved	10.2		0.050	mg/L	03-OCT-19	03-OCT-19	R4858800
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	03-OCT-19	03-OCT-19	R4858800
Sodium (Na)-Dissolved	2.79		0.050	mg/L	03-OCT-19	03-OCT-19	R4858800
Strontium (Sr)-Dissolved	0.107		0.00020	mg/L	03-OCT-19	03-OCT-19	R4858800
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	03-OCT-19	03-OCT-19	R4858800
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	03-OCT-19	03-OCT-19	R4858800
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	03-OCT-19	03-OCT-19	R4858800
Thorium (Th)-Dissolved	0.00029		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Tin (Sn)-Dissolved	0.00021		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Titanium (Ti)-Dissolved	0.0177		0.00030	mg/L	03-OCT-19	03-OCT-19	R4858800
Tungsten (W)-Dissolved	0.00060		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Uranium (U)-Dissolved	0.000056		0.000010	mg/L	03-OCT-19	03-OCT-19	R4858800
Vanadium (V)-Dissolved	0.0120		0.00050	mg/L	03-OCT-19	03-OCT-19	R4858800
Zinc (Zn)-Dissolved	0.0014		0.0010	mg/L	03-OCT-19	03-OCT-19	R4858800
Zirconium (Zr)-Dissolved	0.00715	DTC	0.00020	mg/L	03-OCT-19	03-OCT-19	R4858800
L2358839-4 3134 - TMA - RS - WS1 Sampled By: CLIENT on 29-SEP-19 @ 16:00 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	63.0		1.0	uS/cm		03-OCT-19	R4858671
Hardness (as CaCO3)	38.1		0.50	mg/L		08-OCT-19	
pH	7.13		0.10	pH		03-OCT-19	R4858671
Total Suspended Solids	<2.0		2.0	mg/L		06-OCT-19	R4860489
Total Dissolved Solids	79		13	mg/L		04-OCT-19	R4859725
Anions and Nutrients							
Acidity (as CaCO3)	5.2		2.0	mg/L		06-OCT-19	R4860194
Alkalinity, Total (as CaCO3)	32.9		2.0	mg/L		04-OCT-19	R4859702

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2358839-4 3134 - TMA - RS - WS1 Sampled By: CLIENT on 29-SEP-19 @ 16:00 Matrix: Surface Water							
Anions and Nutrients							
Ammonia, Total (as N)	<0.020		0.020	mg/L		07-OCT-19	R4861362
Bromide (Br)	<0.10		0.10	mg/L		03-OCT-19	R4858733
Chloride (Cl)	0.17		0.10	mg/L		03-OCT-19	R4858733
Fluoride (F)	0.022		0.020	mg/L		03-OCT-19	R4858733
Nitrate (as N)	<0.020		0.020	mg/L		03-OCT-19	R4858733
Nitrite (as N)	<0.010		0.010	mg/L		03-OCT-19	R4858733
Phosphorus (P)-Total	0.0088		0.0030	mg/L	04-OCT-19	07-OCT-19	R4860687
Sulfate (SO4)	1.08		0.30	mg/L		03-OCT-19	R4858733
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		07-OCT-19	R4861496
Organic / Inorganic Carbon							
Dissolved Organic Carbon	21.7		0.50	mg/L		11-OCT-19	R4868492
Total Metals							
Aluminum (Al)-Total	0.0643		0.0030	mg/L	04-OCT-19	04-OCT-19	R4860458
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	04-OCT-19	04-OCT-19	R4860458
Arsenic (As)-Total	0.00054		0.00010	mg/L	04-OCT-19	04-OCT-19	R4860458
Barium (Ba)-Total	0.0141		0.00010	mg/L	04-OCT-19	04-OCT-19	R4860458
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	04-OCT-19	04-OCT-19	R4860458
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Boron (B)-Total	<0.010		0.010	mg/L	04-OCT-19	04-OCT-19	R4860458
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Calcium (Ca)-Total	13.2		0.050	mg/L	04-OCT-19	04-OCT-19	R4860458
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	04-OCT-19	04-OCT-19	R4860458
Chromium (Cr)-Total	0.00103		0.00010	mg/L	04-OCT-19	04-OCT-19	R4860458
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	04-OCT-19	04-OCT-19	R4860458
Copper (Cu)-Total	0.00066		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Iron (Fe)-Total	0.150		0.010	mg/L	04-OCT-19	04-OCT-19	R4860458
Lead (Pb)-Total	<0.000050		0.000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Lithium (Li)-Total	<0.0010		0.0010	mg/L	04-OCT-19	04-OCT-19	R4860458
Magnesium (Mg)-Total	1.02		0.0050	mg/L	04-OCT-19	04-OCT-19	R4860458
Manganese (Mn)-Total	0.00398		0.00010	mg/L	04-OCT-19	04-OCT-19	R4860458
Molybdenum (Mo)-Total	0.000095		0.000050	mg/L	04-OCT-19	07-OCT-19	R4861385
Nickel (Ni)-Total	0.00057		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Phosphorus (P)-Total	<0.050		0.050	mg/L	04-OCT-19	04-OCT-19	R4860458
Potassium (K)-Total	0.828		0.050	mg/L	04-OCT-19	04-OCT-19	R4860458
Rubidium (Rb)-Total	0.00176		0.00020	mg/L	04-OCT-19	04-OCT-19	R4860458
Selenium (Se)-Total	0.000079		0.000050	mg/L	04-OCT-19	04-OCT-19	R4860458
Silicon (Si)-Total	2.29		0.10	mg/L	04-OCT-19	04-OCT-19	R4860458
Silver (Ag)-Total	<0.000010		0.000010	mg/L	04-OCT-19	04-OCT-19	R4860458
Sodium (Na)-Total	0.674		0.050	mg/L	04-OCT-19	04-OCT-19	R4860458
Strontium (Sr)-Total	0.0187		0.00020	mg/L	04-OCT-19	04-OCT-19	R4860458
Sulfur (S)-Total	<0.50		0.50	mg/L	04-OCT-19	04-OCT-19	R4860458

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2358839-4 3134 - TMA - RS - WS1 Sampled By: CLIENT on 29-SEP-19 @ 16:00 Matrix: Surface Water							
Total Metals							
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	04-OCT-19	04-OCT-19	R4860458
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	04-OCT-19	04-OCT-19	R4860458
Thorium (Th)-Total	<0.00010		0.00010	mg/L	04-OCT-19	04-OCT-19	R4860458
Tin (Sn)-Total	<0.00010		0.00010	mg/L	04-OCT-19	04-OCT-19	R4860458
Titanium (Ti)-Total	0.00063		0.00030	mg/L	04-OCT-19	04-OCT-19	R4860458
Tungsten (W)-Total	<0.00010		0.00010	mg/L	04-OCT-19	04-OCT-19	R4860458
Uranium (U)-Total	<0.000010		0.000010	mg/L	04-OCT-19	04-OCT-19	R4860458
Vanadium (V)-Total	<0.00050		0.00050	mg/L	04-OCT-19	04-OCT-19	R4860458
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	04-OCT-19	04-OCT-19	R4860458
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	04-OCT-19	04-OCT-19	R4860458
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					05-OCT-19	R4859825
Dissolved Metals Filtration Location	FIELD					03-OCT-19	R4858710
Aluminum (Al)-Dissolved	0.0671		0.0010	mg/L	03-OCT-19	03-OCT-19	R4858800
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Arsenic (As)-Dissolved	0.00051		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Barium (Ba)-Dissolved	0.0145		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	03-OCT-19	03-OCT-19	R4858800
Boron (B)-Dissolved	<0.010		0.010	mg/L	03-OCT-19	03-OCT-19	R4858800
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	03-OCT-19	03-OCT-19	R4858800
Calcium (Ca)-Dissolved	13.6		0.050	mg/L	03-OCT-19	03-OCT-19	R4858800
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	03-OCT-19	03-OCT-19	R4858800
Chromium (Cr)-Dissolved	0.00076		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Copper (Cu)-Dissolved	0.00066		0.00020	mg/L	03-OCT-19	03-OCT-19	R4858800
Iron (Fe)-Dissolved	0.165		0.010	mg/L	03-OCT-19	03-OCT-19	R4858800
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	03-OCT-19	03-OCT-19	R4858800
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	03-OCT-19	03-OCT-19	R4858800
Magnesium (Mg)-Dissolved	1.02		0.0050	mg/L	03-OCT-19	03-OCT-19	R4858800
Manganese (Mn)-Dissolved	0.00505		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	05-OCT-19	05-OCT-19	R4859686
Molybdenum (Mo)-Dissolved	0.000089		0.000050	mg/L	03-OCT-19	03-OCT-19	R4858800
Nickel (Ni)-Dissolved	0.00058		0.00050	mg/L	03-OCT-19	03-OCT-19	R4858800
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	03-OCT-19	03-OCT-19	R4858800
Potassium (K)-Dissolved	0.861		0.050	mg/L	03-OCT-19	03-OCT-19	R4858800
Rubidium (Rb)-Dissolved	0.00196		0.00020	mg/L	03-OCT-19	03-OCT-19	R4858800
Selenium (Se)-Dissolved	0.000116		0.000050	mg/L	03-OCT-19	03-OCT-19	R4858800
Silicon (Si)-Dissolved	2.34		0.050	mg/L	03-OCT-19	03-OCT-19	R4858800
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	03-OCT-19	03-OCT-19	R4858800
Sodium (Na)-Dissolved	0.699		0.050	mg/L	03-OCT-19	03-OCT-19	R4858800

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2358839-4 3134 - TMA - RS - WS1 Sampled By: CLIENT on 29-SEP-19 @ 16:00 Matrix: Surface Water							
Dissolved Metals							
Strontium (Sr)-Dissolved	0.0184		0.00020	mg/L	03-OCT-19	03-OCT-19	R4858800
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	03-OCT-19	03-OCT-19	R4858800
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	03-OCT-19	03-OCT-19	R4858800
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	03-OCT-19	03-OCT-19	R4858800
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Titanium (Ti)-Dissolved	0.00059		0.00030	mg/L	03-OCT-19	03-OCT-19	R4858800
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	03-OCT-19	03-OCT-19	R4858800
Uranium (U)-Dissolved	<0.000010		0.000010	mg/L	03-OCT-19	03-OCT-19	R4858800
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	03-OCT-19	03-OCT-19	R4858800
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	03-OCT-19	03-OCT-19	R4858800
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	03-OCT-19	03-OCT-19	R4858800

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Acidity (as CaCO3)	B	L2358839-1, -2, -3
Matrix Spike	Dissolved Organic Carbon	MS-B	L2358839-2
Matrix Spike	Aluminum (Al)-Total	MS-B	L2358839-1, -2, -3, -4
Matrix Spike	Barium (Ba)-Total	MS-B	L2358839-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2358839-1, -2, -3, -4
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2358839-1, -2, -3, -4
Matrix Spike	Manganese (Mn)-Total	MS-B	L2358839-1, -2, -3, -4
Matrix Spike	Potassium (K)-Total	MS-B	L2358839-1, -2, -3, -4
Matrix Spike	Sodium (Na)-Total	MS-B	L2358839-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Total	MS-B	L2358839-1, -2, -3, -4
Matrix Spike	Sulfur (S)-Total	MS-B	L2358839-1, -2, -3, -4
Matrix Spike	Tungsten (W)-Total	MS-B	L2358839-1, -2, -3, -4

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
HTC	Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310B

This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CN-TOT-WT	Water	Cyanide, Total	ISO 14403-2

Total cyanide is determined by the combination of UV digestion and distillation. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

When using this method, high levels of thiocyanate in samples can cause false positives at ~1-2% of the thiocyanate concentration. For samples with detectable cyanide analyzed by this method, ALS recommends analysis for thiocyanate to check for this potential interference

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION

HG-D-CVAA-VA	Water	Diss. Mercury in Water by CVAAS or CVAFS	APHA 3030B/EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Reference Information

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-COL-TB	Water	Ammonia by Discrete Analyzer	APHA 4500-NH3 G. (modified)

Ammonia in aqueous matrices is analyzed using discrete analyzer with colourimetric detection.

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: GOLD CANYON RESOURCES INC.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2
Contact: David Mchaina

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R4858671								
WG3180643-11 LCS								
Acidity (as CaCO3)			93.4		%		85-115	03-OCT-19
WG3180643-10 MB								
Acidity (as CaCO3)			2.0	B	mg/L		2	03-OCT-19
Batch R4860194								
WG3183287-2 LCS								
Acidity (as CaCO3)			99.2		%		85-115	06-OCT-19
WG3183287-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		2	06-OCT-19
ALK-TITR-TB	Water							
Batch R4859702								
WG3181960-5 LCS								
Alkalinity, Total (as CaCO3)			96.9		%		85-115	04-OCT-19
WG3181960-4 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	04-OCT-19
BR-IC-N-TB	Water							
Batch R4858733								
WG3180896-6 LCS								
Bromide (Br)			99.6		%		85-115	03-OCT-19
WG3180896-5 MB								
Bromide (Br)			<0.10		mg/L		0.1	03-OCT-19
Batch R4860592								
WG3181921-2 LCS								
Bromide (Br)			102.6		%		85-115	04-OCT-19
WG3181921-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	04-OCT-19
CARBONS-DOC-VA	Water							
Batch R4868492								
WG3188480-2 LCS								
Dissolved Organic Carbon			95.1		%		80-120	11-OCT-19
WG3188480-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	11-OCT-19
Batch R4869827								
WG3190373-2 LCS								
Dissolved Organic Carbon			94.0		%		80-120	13-OCT-19
WG3190373-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	13-OCT-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB	Water							
Batch R4858733								
WG3180896-6 LCS								
Chloride (Cl)			97.5		%		90-110	03-OCT-19
WG3180896-5 MB								
Chloride (Cl)			<0.10		mg/L		0.1	03-OCT-19
Batch R4860592								
WG3181921-2 LCS								
Chloride (Cl)			104.6		%		90-110	04-OCT-19
WG3181921-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	04-OCT-19
CN-TOT-WT	Water							
Batch R4861496								
WG3184207-2 LCS								
Cyanide, Total			98.7		%		80-120	07-OCT-19
WG3184207-1 MB								
Cyanide, Total			<0.0020		mg/L		0.002	07-OCT-19
EC-TITR-TB	Water							
Batch R4858671								
WG3180643-11 LCS								
Conductivity (EC)			94.4		%		90-110	03-OCT-19
WG3180643-10 MB								
Conductivity (EC)			<1.0		uS/cm		1	03-OCT-19
F-IC-N-TB	Water							
Batch R4858733								
WG3180896-6 LCS								
Fluoride (F)			101.4		%		90-110	03-OCT-19
WG3180896-5 MB								
Fluoride (F)			<0.020		mg/L		0.02	03-OCT-19
Batch R4860592								
WG3181921-2 LCS								
Fluoride (F)			105.1		%		90-110	04-OCT-19
WG3181921-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	04-OCT-19
HG-D-CVAA-VA	Water							
Batch R4859686								
WG3183076-6 LCS								
Mercury (Hg)-Dissolved			96.5		%		80-120	05-OCT-19
WG3183076-5 MB		**NP**						

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAA-VA	Water							
Batch R4859686								
WG3183076-5 MB		**NP**						
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	05-OCT-19
MET-D-CCMS-TB	Water							
Batch R4858800								
WG3180886-6 LCS								
Aluminum (Al)-Dissolved			107.4		%		80-120	03-OCT-19
Antimony (Sb)-Dissolved			103.8		%		80-120	03-OCT-19
Arsenic (As)-Dissolved			105.6		%		80-120	03-OCT-19
Barium (Ba)-Dissolved			106.8		%		80-120	03-OCT-19
Beryllium (Be)-Dissolved			105.8		%		80-120	03-OCT-19
Bismuth (Bi)-Dissolved			104.7		%		80-120	03-OCT-19
Boron (B)-Dissolved			96.2		%		80-120	03-OCT-19
Cadmium (Cd)-Dissolved			108.6		%		80-120	03-OCT-19
Calcium (Ca)-Dissolved			107.3		%		80-120	03-OCT-19
Cesium (Cs)-Dissolved			105.6		%		80-120	03-OCT-19
Chromium (Cr)-Dissolved			108.2		%		80-120	03-OCT-19
Cobalt (Co)-Dissolved			106.1		%		80-120	03-OCT-19
Copper (Cu)-Dissolved			104.1		%		80-120	03-OCT-19
Iron (Fe)-Dissolved			109.8		%		80-120	03-OCT-19
Lead (Pb)-Dissolved			104.8		%		80-120	03-OCT-19
Lithium (Li)-Dissolved			100.2		%		80-120	03-OCT-19
Magnesium (Mg)-Dissolved			111.4		%		80-120	03-OCT-19
Manganese (Mn)-Dissolved			108.1		%		80-120	03-OCT-19
Molybdenum (Mo)-Dissolved			106.6		%		80-120	03-OCT-19
Nickel (Ni)-Dissolved			104.4		%		80-120	03-OCT-19
Phosphorus (P)-Dissolved			117.5		%		80-120	03-OCT-19
Potassium (K)-Dissolved			112.8		%		80-120	03-OCT-19
Rubidium (Rb)-Dissolved			107.7		%		80-120	03-OCT-19
Selenium (Se)-Dissolved			102.3		%		80-120	03-OCT-19
Silicon (Si)-Dissolved			99.1		%		80-120	03-OCT-19
Silver (Ag)-Dissolved			104.2		%		80-120	03-OCT-19
Sodium (Na)-Dissolved			112.3		%		80-120	03-OCT-19
Strontium (Sr)-Dissolved			103.8		%		80-120	03-OCT-19
Sulfur (S)-Dissolved			90.9		%		80-120	03-OCT-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4858800								
WG3180886-6 LCS								
Tellurium (Te)-Dissolved			103.1		%		80-120	03-OCT-19
Thallium (Tl)-Dissolved			105.0		%		80-120	03-OCT-19
Thorium (Th)-Dissolved			101.3		%		80-120	03-OCT-19
Tin (Sn)-Dissolved			105.2		%		80-120	03-OCT-19
Titanium (Ti)-Dissolved			104.6		%		80-120	03-OCT-19
Tungsten (W)-Dissolved			103.0		%		80-120	03-OCT-19
Uranium (U)-Dissolved			106.3		%		80-120	03-OCT-19
Vanadium (V)-Dissolved			106.4		%		80-120	03-OCT-19
Zinc (Zn)-Dissolved			106.1		%		80-120	03-OCT-19
Zirconium (Zr)-Dissolved			101.4		%		80-120	03-OCT-19
WG3180886-5 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	03-OCT-19
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	03-OCT-19
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	03-OCT-19
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	03-OCT-19
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	03-OCT-19
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	03-OCT-19
Boron (B)-Dissolved			<0.010		mg/L		0.01	03-OCT-19
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	03-OCT-19
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	03-OCT-19
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	03-OCT-19
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	03-OCT-19
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	03-OCT-19
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	03-OCT-19
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	03-OCT-19
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	03-OCT-19
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	03-OCT-19
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	03-OCT-19
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	03-OCT-19
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	03-OCT-19
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	03-OCT-19
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	03-OCT-19
Potassium (K)-Dissolved			<0.050		mg/L		0.05	03-OCT-19
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	03-OCT-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R4858800								
WG3180886-5 MB								
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	03-OCT-19
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	03-OCT-19
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	03-OCT-19
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	03-OCT-19
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	03-OCT-19
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	03-OCT-19
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	03-OCT-19
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	03-OCT-19
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	03-OCT-19
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	03-OCT-19
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	03-OCT-19
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	03-OCT-19
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	03-OCT-19
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	03-OCT-19
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	03-OCT-19
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	03-OCT-19
MET-T-CCMS-TB	Water							
Batch R4860458								
WG3181827-2 LCS								
Aluminum (Al)-Total			104.9		%		80-120	04-OCT-19
Antimony (Sb)-Total			105.1		%		80-120	04-OCT-19
Arsenic (As)-Total			101.0		%		80-120	04-OCT-19
Barium (Ba)-Total			98.4		%		80-120	04-OCT-19
Beryllium (Be)-Total			104.8		%		80-120	04-OCT-19
Bismuth (Bi)-Total			105.4		%		80-120	04-OCT-19
Boron (B)-Total			96.3		%		80-120	04-OCT-19
Cadmium (Cd)-Total			105.9		%		80-120	04-OCT-19
Calcium (Ca)-Total			101.4		%		80-120	04-OCT-19
Cesium (Cs)-Total			104.5		%		80-120	04-OCT-19
Chromium (Cr)-Total			106.2		%		80-120	04-OCT-19
Cobalt (Co)-Total			105.3		%		80-120	04-OCT-19
Copper (Cu)-Total			106.0		%		80-120	04-OCT-19
Iron (Fe)-Total			105.7		%		80-120	04-OCT-19
Lead (Pb)-Total			102.5		%		80-120	04-OCT-19

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4860458								
WG3181827-2 LCS								
Lithium (Li)-Total			104.6		%		80-120	04-OCT-19
Magnesium (Mg)-Total			108.0		%		80-120	04-OCT-19
Manganese (Mn)-Total			104.2		%		80-120	04-OCT-19
Molybdenum (Mo)-Total			105.0		%		80-120	04-OCT-19
Nickel (Ni)-Total			103.4		%		80-120	04-OCT-19
Phosphorus (P)-Total			108.8		%		80-120	04-OCT-19
Potassium (K)-Total			110.6		%		80-120	04-OCT-19
Rubidium (Rb)-Total			102.3		%		80-120	04-OCT-19
Selenium (Se)-Total			105.7		%		80-120	04-OCT-19
Silicon (Si)-Total			99.4		%		80-120	04-OCT-19
Silver (Ag)-Total			106.1		%		80-120	04-OCT-19
Sodium (Na)-Total			107.9		%		80-120	04-OCT-19
Strontium (Sr)-Total			102.3		%		80-120	04-OCT-19
Sulfur (S)-Total			103.9		%		80-120	04-OCT-19
Tellurium (Te)-Total			110.0		%		80-120	04-OCT-19
Thallium (Tl)-Total			103.1		%		80-120	04-OCT-19
Thorium (Th)-Total			95.2		%		80-120	04-OCT-19
Tin (Sn)-Total			103.3		%		80-120	04-OCT-19
Titanium (Ti)-Total			99.7		%		80-120	04-OCT-19
Tungsten (W)-Total			101.8		%		80-120	04-OCT-19
Uranium (U)-Total			99.3		%		80-120	04-OCT-19
Vanadium (V)-Total			105.8		%		80-120	04-OCT-19
Zinc (Zn)-Total			103.8		%		80-120	04-OCT-19
Zirconium (Zr)-Total			93.3		%		80-120	04-OCT-19
WG3181827-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	04-OCT-19
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	04-OCT-19
Arsenic (As)-Total			<0.00010		mg/L		0.0001	04-OCT-19
Barium (Ba)-Total			<0.00010		mg/L		0.0001	04-OCT-19
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	04-OCT-19
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	04-OCT-19
Boron (B)-Total			<0.010		mg/L		0.01	04-OCT-19
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	04-OCT-19
Calcium (Ca)-Total			<0.050		mg/L		0.05	04-OCT-19

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R4860458								
WG3181827-1 MB								
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	04-OCT-19
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	04-OCT-19
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	04-OCT-19
Copper (Cu)-Total			<0.00050		mg/L		0.0005	04-OCT-19
Iron (Fe)-Total			<0.010		mg/L		0.01	04-OCT-19
Lead (Pb)-Total			<0.000050		mg/L		0.00005	04-OCT-19
Lithium (Li)-Total			<0.0010		mg/L		0.001	04-OCT-19
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	04-OCT-19
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	04-OCT-19
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	04-OCT-19
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	04-OCT-19
Phosphorus (P)-Total			<0.050		mg/L		0.05	04-OCT-19
Potassium (K)-Total			<0.050		mg/L		0.05	04-OCT-19
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	04-OCT-19
Selenium (Se)-Total			<0.000050		mg/L		0.00005	04-OCT-19
Silicon (Si)-Total			<0.10		mg/L		0.1	04-OCT-19
Silver (Ag)-Total			<0.000010		mg/L		0.00001	04-OCT-19
Sodium (Na)-Total			<0.050		mg/L		0.05	04-OCT-19
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	04-OCT-19
Sulfur (S)-Total			<0.50		mg/L		0.5	04-OCT-19
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	04-OCT-19
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	04-OCT-19
Thorium (Th)-Total			<0.00010		mg/L		0.0001	04-OCT-19
Tin (Sn)-Total			<0.00010		mg/L		0.0001	04-OCT-19
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	04-OCT-19
Tungsten (W)-Total			<0.00010		mg/L		0.0001	04-OCT-19
Uranium (U)-Total			<0.000010		mg/L		0.00001	04-OCT-19
Vanadium (V)-Total			<0.00050		mg/L		0.0005	04-OCT-19
Zinc (Zn)-Total			<0.0030		mg/L		0.003	04-OCT-19
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	04-OCT-19
NH3-COL-TB	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-COL-TB	Water							
Batch R4861362								
WG3183741-10 LCS								
Ammonia, Total (as N)			97.8		%		85-115	07-OCT-19
WG3183741-9 MB								
Ammonia, Total (as N)			<0.020		mg/L		0.02	07-OCT-19
NO2-IC-N-TB	Water							
Batch R4858733								
WG3180896-6 LCS								
Nitrite (as N)			93.1		%		90-110	03-OCT-19
WG3180896-5 MB								
Nitrite (as N)			<0.010		mg/L		0.01	03-OCT-19
Batch R4860592								
WG3181921-2 LCS								
Nitrite (as N)			99.98		%		90-110	04-OCT-19
WG3181921-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	04-OCT-19
NO3-IC-N-TB	Water							
Batch R4858733								
WG3180896-6 LCS								
Nitrate (as N)			93.1		%		90-110	03-OCT-19
WG3180896-5 MB								
Nitrate (as N)			<0.020		mg/L		0.02	03-OCT-19
Batch R4860592								
WG3181921-2 LCS								
Nitrate (as N)			104.6		%		90-110	04-OCT-19
WG3181921-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	04-OCT-19
P-T-COL-TB	Water							
Batch R4860687								
WG3181789-3 DUP		**L2358839-2**						
Phosphorus (P)-Total		0.411	0.391		mg/L	5.2	20	07-OCT-19
WG3181789-2 LCS								
Phosphorus (P)-Total			93.7		%		80-120	07-OCT-19
WG3181789-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	07-OCT-19
PH-TITR-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-TITR-TB	Water							
Batch R4858671								
WG3180643-11 LCS								
pH			7.00		pH		6.9-7.1	03-OCT-19
SO4-IC-N-TB	Water							
Batch R4858733								
WG3180896-6 LCS								
Sulfate (SO4)			98.2		%		90-110	03-OCT-19
WG3180896-5 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	03-OCT-19
Batch R4860592								
WG3181921-2 LCS								
Sulfate (SO4)			101.5		%		90-110	04-OCT-19
WG3181921-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	04-OCT-19
TDS-TB	Water							
Batch R4859725								
WG3181903-3 DUP		**L2358839-1**						
Total Dissolved Solids		320	314		mg/L	1.7	20	04-OCT-19
WG3181903-2 LCS								
Total Dissolved Solids			94.8		%		85-115	04-OCT-19
WG3181903-1 MB								
Total Dissolved Solids			<10		mg/L		10	04-OCT-19
TSS-TB	Water							
Batch R4860489								
WG3183192-2 LCS								
Total Suspended Solids			100.7		%		85-115	06-OCT-19
WG3183192-1 MB								
Total Suspended Solids			<2.0		mg/L		2	06-OCT-19

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Anions and Nutrients							
Filtr./Pres. for carbons and nutrients							
	2	29-SEP-19 13:50	08-OCT-19 13:00	3	9	days	EHTR

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2358839 were received on 03-OCT-19 08:55.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2358839-COFC

COC Number: 17 - SF

Page of

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☑ YES ☐ NO
Company:	
Contact:	

Project Information	
ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole GW
PO / AFE:	
LSD:	First Mining Gold Project
ALS Lab Work Order # (lab use only):	L2358839

Report Format / Distribution	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☑ YES ☐ NO
☑ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shila@firstmininggold.com
Email 3	cungeong@...ntld.net

Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Oil and Gas Required Fields (client use)		
AFE/Cost Center:		PO#
Major/Minor Code:		Routing Code:
Requisitioner:		
Location:		
ALS Contact:		Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

Priority (Business Days)		Emergency	
	4 day [P4-20%] ☐		1 Business day [E - 100%] ☐
	3 day [P3-25%] ☐		Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐
	2 day [P2-50%] ☐		

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity	Dissolved Metals	Dissolved Mercury	DOC, F, Hardness, NO2,NO3, pH, SO4	TDS	Total Cyanide	Total Phosphorus, TSS	Total metals							SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134 - MW - BEEE - WS1	29-Sept-19	14:45	Ground Water	7	x	x	x	x	x	x	x	x								
	3134 - MW - EE80 - WS1	29-Sept-19	13:50	Ground Water	7	x	x	x	x	x	x	x	x								
	3134 - MW - KE34 - WS1	29-Sept-19	16:20	Ground Water	7	x	x	x	x	x	x	x	x								
	3134 - TMA - RS - WS1	29-Sept-19	16:00	Ground Water	7	x	x	x	x	x	x	x	x								
	↳ surface water.			Ground Water		x	x	x	x	x	x	x									
				Ground Water		x	x	x	x	x	x	x									
				Ground Water		x	x	x	x	x	x	x									
				Ground Water		x	x	x	x	x	x	x									
				Ground Water		x	x	x	x	x	x	x									
				Ground Water		x	x	x	x	x	x	x									
				Ground Water		x	x	x	x	x	x	x									
				Ground Water		x	x	x	x	x	x	x									

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐	SIF Observations	Yes ☐ No ☐
Ice Packs	☑ Ice Cubes ☐	Custody seal intact	Yes ☐ No ☐
Cooling Initiated	☑		

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
6.2							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
	10/02/2019	1:09		Oct 3/19	8:55			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: David Mchaina
c/ o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 09- JUL- 20
Report Date: 27- JUL- 20 14:57 (MT)
Version: FINAL

Client Phone: 705- 929- 5245

Certificate of Analysis

Lab Work Order #: L2471783

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE GW
C of C Numbers:
Legal Site Desc: First Mining Gold Project



Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-1 SP-GW-MW5 Sampled By: Client on 06-JUL-20 @ 14:30 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	525		1.0	uS/cm		09-JUL-20	R5147398
Hardness (as CaCO3)	277		0.50	mg/L		15-JUL-20	
pH	7.62		0.10	pH		09-JUL-20	R5147398
Total Suspended Solids	33900		30	mg/L		11-JUL-20	R5148936
Total Dissolved Solids	397		40	mg/L		10-JUL-20	R5148278
Anions and Nutrients							
Acidity (as CaCO3)	19.9		2.0	mg/L		09-JUL-20	R5147398
Alkalinity, Total (as CaCO3)	366		2.0	mg/L		10-JUL-20	R5148162
Ammonia, Total (as N)	0.012		0.010	mg/L		13-JUL-20	R5152437
Bromide (Br)	<0.10		0.10	mg/L		13-JUL-20	R5150638
Chloride (Cl)	0.29		0.10	mg/L		13-JUL-20	R5150638
Fluoride (F)	0.199		0.020	mg/L		13-JUL-20	R5150638
Nitrate (as N)	0.224		0.020	mg/L		13-JUL-20	R5150638
Nitrite (as N)	<0.010		0.010	mg/L		13-JUL-20	R5150638
Phosphorus, Total	3.53	DLHC	0.015	mg/L	13-JUL-20	15-JUL-20	R5153706
Silica, Reactive (as SiO2)	12.3		1.0	mg/L		17-JUL-20	R5157312
Sulfate (SO4)	22.6		0.30	mg/L		13-JUL-20	R5150638
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-JUL-20	R5152263
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				06-JUL-20	10-JUL-20	R5148047
Dissolved Organic Carbon	8.7	DLM	5.0	mg/L	06-JUL-20	15-JUL-20	R5154537
Total Metals							
Aluminum (Al)-Total	68.7	DLHC	0.050	mg/L	14-JUL-20	14-JUL-20	R5151860
Antimony (Sb)-Total	<0.0010	DLHC	0.0010	mg/L	14-JUL-20	14-JUL-20	R5151860
Arsenic (As)-Total	0.0237	DLHC	0.0010	mg/L	14-JUL-20	14-JUL-20	R5151860
Barium (Ba)-Total	0.585	DLHC	0.0010	mg/L	14-JUL-20	14-JUL-20	R5151860
Beryllium (Be)-Total	0.0029	DLHC	0.0010	mg/L	14-JUL-20	14-JUL-20	R5151860
Bismuth (Bi)-Total	0.00114	DLHC	0.00050	mg/L	14-JUL-20	14-JUL-20	R5151860
Boron (B)-Total	<0.10	DLHC	0.10	mg/L	14-JUL-20	14-JUL-20	R5151860
Cadmium (Cd)-Total	0.00105	DLHC	0.000050	mg/L	14-JUL-20	14-JUL-20	R5151860
Calcium (Ca)-Total	406	DLHC	0.50	mg/L	14-JUL-20	14-JUL-20	R5151860
Cesium (Cs)-Total	0.0132	DLHC	0.00010	mg/L	14-JUL-20	14-JUL-20	R5151860
Chromium (Cr)-Total	0.165	DLHC	0.0050	mg/L	14-JUL-20	14-JUL-20	R5151860
Cobalt (Co)-Total	0.0926	DLHC	0.0010	mg/L	14-JUL-20	14-JUL-20	R5151860
Copper (Cu)-Total	0.357	DLHC	0.0050	mg/L	14-JUL-20	14-JUL-20	R5151860
Iron (Fe)-Total	117	DLHC	0.10	mg/L	14-JUL-20	14-JUL-20	R5151860
Lead (Pb)-Total	0.0454	DLHC	0.00050	mg/L	14-JUL-20	14-JUL-20	R5151860
Lithium (Li)-Total	0.110	DLHC	0.010	mg/L	14-JUL-20	14-JUL-20	R5151860
Magnesium (Mg)-Total	105	DLHC	0.050	mg/L	14-JUL-20	14-JUL-20	R5151860
Manganese (Mn)-Total	2.73	DLHC	0.0050	mg/L	14-JUL-20	14-JUL-20	R5151860
Molybdenum (Mo)-Total	0.00195	DLHC	0.00050	mg/L	14-JUL-20	14-JUL-20	R5151860

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-1 SP-GW-MW5 Sampled By: Client on 06-JUL-20 @ 14:30 Matrix: Ground Water							
Total Metals							
Nickel (Ni)-Total	0.145	DLHC	0.0050	mg/L	14-JUL-20	14-JUL-20	R5151860
Phosphorus (P)-Total	3.87	DLHC	0.50	mg/L	14-JUL-20	14-JUL-20	R5151860
Potassium (K)-Total	14.8	DLHC	0.50	mg/L	14-JUL-20	14-JUL-20	R5151860
Rubidium (Rb)-Total	0.159	DLHC	0.0020	mg/L	14-JUL-20	14-JUL-20	R5151860
Selenium (Se)-Total	0.00159	DLHC	0.00050	mg/L	14-JUL-20	14-JUL-20	R5151860
Silicon (Si)-Total	83.9	DLHC	1.0	mg/L	14-JUL-20	14-JUL-20	R5151860
Silver (Ag)-Total	0.00090	DLHC	0.00050	mg/L	14-JUL-20	14-JUL-20	R5151860
Sodium (Na)-Total	6.16	DLHC	0.50	mg/L	14-JUL-20	14-JUL-20	R5151860
Strontium (Sr)-Total	0.367	DLHC	0.010	mg/L	14-JUL-20	14-JUL-20	R5151860
Sulfur (S)-Total	7.3	DLHC	5.0	mg/L	14-JUL-20	14-JUL-20	R5151860
Tellurium (Te)-Total	<0.0020	DLHC	0.0020	mg/L	14-JUL-20	14-JUL-20	R5151860
Thallium (Tl)-Total	0.00196	DLHC	0.00010	mg/L	14-JUL-20	14-JUL-20	R5151860
Thorium (Th)-Total	0.0271	DLHC	0.0010	mg/L	14-JUL-20	14-JUL-20	R5151860
Tin (Sn)-Total	<0.0010	DLHC	0.0010	mg/L	14-JUL-20	14-JUL-20	R5151860
Titanium (Ti)-Total	1.77	DLHC	0.0030	mg/L	14-JUL-20	14-JUL-20	R5151860
Tungsten (W)-Total	<0.0010	DLHC	0.0010	mg/L	14-JUL-20	14-JUL-20	R5151860
Uranium (U)-Total	0.00435	DLHC	0.00010	mg/L	14-JUL-20	14-JUL-20	R5151860
Vanadium (V)-Total	0.142	DLHC	0.0050	mg/L	14-JUL-20	14-JUL-20	R5151860
Zinc (Zn)-Total	0.356	DLHC	0.030	mg/L	14-JUL-20	14-JUL-20	R5151860
Zirconium (Zr)-Total	0.0030	DLHC	0.0020	mg/L	14-JUL-20	14-JUL-20	R5151860
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-JUL-20	R5148923
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149137
Aluminum (Al)-Dissolved	0.0148		0.0050	mg/L	14-JUL-20	14-JUL-20	R5153438
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Arsenic (As)-Dissolved	0.00020		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Barium (Ba)-Dissolved	0.0365		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Boron (B)-Dissolved	<0.010		0.010	mg/L	14-JUL-20	14-JUL-20	R5153438
Cadmium (Cd)-Dissolved	0.0000079		0.0000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Calcium (Ca)-Dissolved	90.8		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	14-JUL-20	14-JUL-20	R5153438
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Copper (Cu)-Dissolved	0.00156		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438
Iron (Fe)-Dissolved	0.015		0.010	mg/L	14-JUL-20	14-JUL-20	R5153438
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Lithium (Li)-Dissolved	0.0076		0.0010	mg/L	14-JUL-20	14-JUL-20	R5153438
Magnesium (Mg)-Dissolved	12.3		0.0050	mg/L	14-JUL-20	14-JUL-20	R5153438
Manganese (Mn)-Dissolved	0.00142		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-1 SP-GW-MW5 Sampled By: Client on 06-JUL-20 @ 14:30 Matrix: Ground Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-JUL-20	13-JUL-20	R5150292
Molybdenum (Mo)-Dissolved	0.00298	DTC	0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Potassium (K)-Dissolved	1.18		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Rubidium (Rb)-Dissolved	0.00097		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438
Selenium (Se)-Dissolved	0.00164		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Silicon (Si)-Dissolved	6.34		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Silver (Ag)-Dissolved	<0.000050		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Sodium (Na)-Dissolved	3.35		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Strontium (Sr)-Dissolved	0.126		0.0010	mg/L	14-JUL-20	14-JUL-20	R5153438
Sulfur (S)-Dissolved	7.30		0.50	mg/L	14-JUL-20	14-JUL-20	R5153438
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	14-JUL-20	14-JUL-20	R5153438
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Titanium (Ti)-Dissolved	0.00082		0.00030	mg/L	14-JUL-20	14-JUL-20	R5153438
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Uranium (U)-Dissolved	0.000774		0.000010	mg/L	14-JUL-20	14-JUL-20	R5153438
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438
Zinc (Zn)-Dissolved	0.0010		0.0010	mg/L	14-JUL-20	14-JUL-20	R5153438
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438
L2471783-2 SP-GW-SP11-064 Sampled By: Client on 06-JUL-20 @ 16:36 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	284		1.0	uS/cm		09-JUL-20	R5147398
Hardness (as CaCO3)	138		0.50	mg/L		15-JUL-20	
pH	7.24		0.10	pH		09-JUL-20	R5147398
Total Suspended Solids	4.6		3.0	mg/L		10-JUL-20	R5148273
Total Dissolved Solids	167		20	mg/L		10-JUL-20	R5148278
Anions and Nutrients							
Acidity (as CaCO3)	15.0		2.0	mg/L		09-JUL-20	R5147398
Alkalinity, Total (as CaCO3)	141		2.0	mg/L		10-JUL-20	R5148162
Ammonia, Total (as N)	<0.010		0.010	mg/L		13-JUL-20	R5152437
Bromide (Br)	<0.10		0.10	mg/L		13-JUL-20	R5150638
Chloride (Cl)	0.17		0.10	mg/L		13-JUL-20	R5150638
Fluoride (F)	0.047		0.020	mg/L		13-JUL-20	R5150638
Nitrate (as N)	0.080		0.020	mg/L		13-JUL-20	R5150638
Nitrite (as N)	<0.010		0.010	mg/L		13-JUL-20	R5150638
Phosphorus, Total	<0.0030		0.0030	mg/L	13-JUL-20	15-JUL-20	R5153706
Silica, Reactive (as SiO2)	10.8		1.0	mg/L		17-JUL-20	R5157312

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-2 SP-GW-SP11-064 Sampled By: Client on 06-JUL-20 @ 16:36 Matrix: Ground Water							
Anions and Nutrients							
Sulfate (SO4)	17.8		0.30	mg/L		13-JUL-20	R5150638
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-JUL-20	R5152263
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				06-JUL-20	10-JUL-20	R5148047
Dissolved Organic Carbon	12.3	DLM	5.0	mg/L	06-JUL-20	15-JUL-20	R5154537
Total Metals							
Aluminum (Al)-Total	0.0312		0.0050	mg/L	14-JUL-20	14-JUL-20	R5151860
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5151860
Arsenic (As)-Total	0.00019		0.00010	mg/L	14-JUL-20	14-JUL-20	R5151860
Barium (Ba)-Total	0.0112		0.00010	mg/L	14-JUL-20	14-JUL-20	R5151860
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5151860
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	14-JUL-20	14-JUL-20	R5151860
Boron (B)-Total	<0.010		0.010	mg/L	14-JUL-20	14-JUL-20	R5151860
Cadmium (Cd)-Total	0.0000337		0.0000050	mg/L	14-JUL-20	14-JUL-20	R5151860
Calcium (Ca)-Total	54.8		0.050	mg/L	14-JUL-20	14-JUL-20	R5151860
Cesium (Cs)-Total	0.000058		0.000010	mg/L	14-JUL-20	14-JUL-20	R5151860
Chromium (Cr)-Total	<0.00050		0.00050	mg/L	14-JUL-20	14-JUL-20	R5151860
Cobalt (Co)-Total	0.00015		0.00010	mg/L	14-JUL-20	14-JUL-20	R5151860
Copper (Cu)-Total	0.00777		0.00050	mg/L	14-JUL-20	14-JUL-20	R5151860
Iron (Fe)-Total	0.070		0.010	mg/L	14-JUL-20	14-JUL-20	R5151860
Lead (Pb)-Total	0.000131		0.000050	mg/L	14-JUL-20	14-JUL-20	R5151860
Lithium (Li)-Total	<0.0010		0.0010	mg/L	14-JUL-20	14-JUL-20	R5151860
Magnesium (Mg)-Total	1.47		0.0050	mg/L	14-JUL-20	14-JUL-20	R5151860
Manganese (Mn)-Total	0.00641		0.00050	mg/L	14-JUL-20	14-JUL-20	R5151860
Molybdenum (Mo)-Total	0.000341		0.000050	mg/L	14-JUL-20	14-JUL-20	R5151860
Nickel (Ni)-Total	0.00075		0.00050	mg/L	14-JUL-20	14-JUL-20	R5151860
Phosphorus (P)-Total	<0.050		0.050	mg/L	14-JUL-20	14-JUL-20	R5151860
Potassium (K)-Total	0.240		0.050	mg/L	14-JUL-20	14-JUL-20	R5151860
Rubidium (Rb)-Total	0.00086		0.00020	mg/L	14-JUL-20	14-JUL-20	R5151860
Selenium (Se)-Total	0.000136		0.000050	mg/L	14-JUL-20	14-JUL-20	R5151860
Silicon (Si)-Total	4.87		0.10	mg/L	14-JUL-20	14-JUL-20	R5151860
Silver (Ag)-Total	<0.000050		0.000050	mg/L	14-JUL-20	14-JUL-20	R5151860
Sodium (Na)-Total	1.24		0.050	mg/L	14-JUL-20	14-JUL-20	R5151860
Strontium (Sr)-Total	0.0900		0.0010	mg/L	14-JUL-20	14-JUL-20	R5151860
Sulfur (S)-Total	5.95		0.50	mg/L	14-JUL-20	14-JUL-20	R5151860
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	14-JUL-20	14-JUL-20	R5151860
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	14-JUL-20	14-JUL-20	R5151860
Thorium (Th)-Total	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5151860
Tin (Sn)-Total	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5151860
Titanium (Ti)-Total	0.00063		0.00030	mg/L	14-JUL-20	14-JUL-20	R5151860
Tungsten (W)-Total	0.00072		0.00010	mg/L	14-JUL-20	14-JUL-20	R5151860

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-2 SP-GW-SP11-064 Sampled By: Client on 06-JUL-20 @ 16:36 Matrix: Ground Water							
Total Metals							
Uranium (U)-Total	0.000098		0.000010	mg/L	14-JUL-20	14-JUL-20	R5151860
Vanadium (V)-Total	<0.00050		0.00050	mg/L	14-JUL-20	14-JUL-20	R5151860
Zinc (Zn)-Total	0.0034		0.0030	mg/L	14-JUL-20	14-JUL-20	R5151860
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	14-JUL-20	14-JUL-20	R5151860
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-JUL-20	R5148923
Dissolved Metals Filtration Location	FIELD					14-JUL-20	R5151337
Aluminum (Al)-Dissolved	0.0157		0.0050	mg/L	14-JUL-20	14-JUL-20	R5153438
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Arsenic (As)-Dissolved	0.00017		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Barium (Ba)-Dissolved	0.0104		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Boron (B)-Dissolved	<0.010		0.010	mg/L	14-JUL-20	14-JUL-20	R5153438
Cadmium (Cd)-Dissolved	0.0000322		0.0000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Calcium (Ca)-Dissolved	53.0		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Cesium (Cs)-Dissolved	0.000057		0.000010	mg/L	14-JUL-20	14-JUL-20	R5153438
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438
Cobalt (Co)-Dissolved	0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Copper (Cu)-Dissolved	0.00686		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438
Iron (Fe)-Dissolved	0.023		0.010	mg/L	14-JUL-20	14-JUL-20	R5153438
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	14-JUL-20	14-JUL-20	R5153438
Magnesium (Mg)-Dissolved	1.38		0.0050	mg/L	14-JUL-20	14-JUL-20	R5153438
Manganese (Mn)-Dissolved	0.00504		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438
Mercury (Hg)-Dissolved	0.0000078		0.0000050	mg/L	12-JUL-20	13-JUL-20	R5150292
Molybdenum (Mo)-Dissolved	0.000341		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Nickel (Ni)-Dissolved	0.00064		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Potassium (K)-Dissolved	0.224		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Rubidium (Rb)-Dissolved	0.00069		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438
Selenium (Se)-Dissolved	0.000135		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Silicon (Si)-Dissolved	4.85		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Silver (Ag)-Dissolved	<0.000050		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Sodium (Na)-Dissolved	1.12		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Strontium (Sr)-Dissolved	0.0900		0.0010	mg/L	14-JUL-20	14-JUL-20	R5153438
Sulfur (S)-Dissolved	5.83		0.50	mg/L	14-JUL-20	14-JUL-20	R5153438
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	14-JUL-20	14-JUL-20	R5153438
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-2 SP-GW-SP11-064 Sampled By: Client on 06-JUL-20 @ 16:36 Matrix: Ground Water							
Dissolved Metals							
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	14-JUL-20	14-JUL-20	R5153438
Tungsten (W)-Dissolved	0.00063		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Uranium (U)-Dissolved	0.000094		0.000010	mg/L	14-JUL-20	14-JUL-20	R5153438
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438
Zinc (Zn)-Dissolved	0.0039		0.0010	mg/L	14-JUL-20	14-JUL-20	R5153438
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438
L2471783-3 SP-GW-BL-235 Sampled By: Client on 07-JUL-20 @ 10:07 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	450		1.0	uS/cm		09-JUL-20	R5147398
Hardness (as CaCO3)	233		0.50	mg/L		15-JUL-20	
pH	7.66		0.10	pH		09-JUL-20	R5147398
Total Suspended Solids	<3.0		3.0	mg/L		13-JUL-20	R5151696
Total Dissolved Solids	292		20	mg/L		11-JUL-20	R5148982
Anions and Nutrients							
Acidity (as CaCO3)	11.0		2.0	mg/L		09-JUL-20	R5147398
Alkalinity, Total (as CaCO3)	230		2.0	mg/L		10-JUL-20	R5148162
Ammonia, Total (as N)	0.380		0.010	mg/L		13-JUL-20	R5152437
Bromide (Br)	<0.10		0.10	mg/L		13-JUL-20	R5150638
Chloride (Cl)	0.21		0.10	mg/L		13-JUL-20	R5150638
Fluoride (F)	0.124		0.020	mg/L		13-JUL-20	R5150638
Nitrate (as N)	<0.020		0.020	mg/L		13-JUL-20	R5150638
Nitrite (as N)	<0.010		0.010	mg/L		13-JUL-20	R5150638
Phosphorus, Total	0.0259		0.0030	mg/L	13-JUL-20	15-JUL-20	R5153706
Silica, Reactive (as SiO2)	12.9		1.0	mg/L		17-JUL-20	R5157312
Sulfate (SO4)	37.2		0.30	mg/L		13-JUL-20	R5150638
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-JUL-20	R5152263
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				07-JUL-20	10-JUL-20	R5148047
Dissolved Organic Carbon	21.6	DLM	5.0	mg/L	07-JUL-20	15-JUL-20	R5154537
Total Metals							
Aluminum (Al)-Total	0.0326		0.0050	mg/L	10-JUL-20	10-JUL-20	R5150821
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Arsenic (As)-Total	0.00446		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Barium (Ba)-Total	0.115		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Beryllium (Be)-Total	0.00019		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Boron (B)-Total	<0.010		0.010	mg/L	10-JUL-20	10-JUL-20	R5150821
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Calcium (Ca)-Total	75.2		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-3 SP-GW-BL-235 Sampled By: Client on 07-JUL-20 @ 10:07 Matrix: Ground Water							
Total Metals							
Cesium (Cs)-Total	0.000332		0.000010	mg/L	10-JUL-20	10-JUL-20	R5150821
Chromium (Cr)-Total	0.00058		0.00050	mg/L	10-JUL-20	14-JUL-20	R5150821
Cobalt (Co)-Total	0.00073		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Copper (Cu)-Total	<0.00050		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Iron (Fe)-Total	2.17		0.010	mg/L	10-JUL-20	10-JUL-20	R5150821
Lead (Pb)-Total	0.000088		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Lithium (Li)-Total	0.0029		0.0010	mg/L	10-JUL-20	10-JUL-20	R5150821
Magnesium (Mg)-Total	14.2		0.0050	mg/L	10-JUL-20	10-JUL-20	R5150821
Manganese (Mn)-Total	0.633		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Molybdenum (Mo)-Total	0.00126		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Nickel (Ni)-Total	0.00080		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Phosphorus (P)-Total	<0.050		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821
Potassium (K)-Total	1.93		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821
Rubidium (Rb)-Total	0.00264		0.00020	mg/L	10-JUL-20	10-JUL-20	R5150821
Selenium (Se)-Total	0.000068		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Silicon (Si)-Total	6.07		0.10	mg/L	10-JUL-20	10-JUL-20	R5150821
Silver (Ag)-Total	<0.000050		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Sodium (Na)-Total	1.92		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821
Strontium (Sr)-Total	0.533		0.0010	mg/L	10-JUL-20	10-JUL-20	R5150821
Sulfur (S)-Total	13.6		0.50	mg/L	10-JUL-20	10-JUL-20	R5150821
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	10-JUL-20	10-JUL-20	R5150821
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	10-JUL-20	10-JUL-20	R5150821
Thorium (Th)-Total	0.00013		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Tin (Sn)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Titanium (Ti)-Total	<0.0020	DLUI	0.0020	mg/L	10-JUL-20	10-JUL-20	R5150821
Tungsten (W)-Total	0.00188		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Uranium (U)-Total	0.000770		0.000010	mg/L	10-JUL-20	10-JUL-20	R5150821
Vanadium (V)-Total	0.00205		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	10-JUL-20	10-JUL-20	R5150821
Zirconium (Zr)-Total	0.00750		0.00020	mg/L	10-JUL-20	10-JUL-20	R5150821
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-JUL-20	R5148923
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149137
Aluminum (Al)-Dissolved	0.0277		0.0050	mg/L	12-JUL-20	13-JUL-20	R5151383
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Arsenic (As)-Dissolved	0.00210		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Barium (Ba)-Dissolved	0.114		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Beryllium (Be)-Dissolved	0.00018		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-JUL-20	13-JUL-20	R5151383
Boron (B)-Dissolved	<0.010		0.010	mg/L	12-JUL-20	14-JUL-20	R5151383
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	12-JUL-20	13-JUL-20	R5151383

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-3 SP-GW-BL-235 Sampled By: Client on 07-JUL-20 @ 10:07 Matrix: Ground Water							
Dissolved Metals							
Calcium (Ca)-Dissolved	71.4		0.050	mg/L	12-JUL-20	13-JUL-20	R5151383
Cesium (Cs)-Dissolved	0.000298		0.000010	mg/L	12-JUL-20	13-JUL-20	R5151383
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	12-JUL-20	13-JUL-20	R5151383
Cobalt (Co)-Dissolved	0.00047		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Copper (Cu)-Dissolved	0.00033		0.00020	mg/L	12-JUL-20	13-JUL-20	R5151383
Iron (Fe)-Dissolved	1.84		0.010	mg/L	12-JUL-20	13-JUL-20	R5151383
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	12-JUL-20	13-JUL-20	R5151383
Lithium (Li)-Dissolved	0.0023		0.0010	mg/L	12-JUL-20	13-JUL-20	R5151383
Magnesium (Mg)-Dissolved	13.2		0.0050	mg/L	12-JUL-20	13-JUL-20	R5151383
Manganese (Mn)-Dissolved	0.571		0.00050	mg/L	12-JUL-20	13-JUL-20	R5151383
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-JUL-20	13-JUL-20	R5150292
Molybdenum (Mo)-Dissolved	0.00107		0.000050	mg/L	12-JUL-20	13-JUL-20	R5151383
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	12-JUL-20	13-JUL-20	R5151383
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	12-JUL-20	13-JUL-20	R5151383
Potassium (K)-Dissolved	1.83		0.050	mg/L	12-JUL-20	13-JUL-20	R5151383
Rubidium (Rb)-Dissolved	0.00232		0.00020	mg/L	12-JUL-20	13-JUL-20	R5151383
Selenium (Se)-Dissolved	0.000570	DTC	0.000050	mg/L	12-JUL-20	14-JUL-20	R5151383
Silicon (Si)-Dissolved	5.77		0.050	mg/L	12-JUL-20	13-JUL-20	R5151383
Silver (Ag)-Dissolved	<0.000050		0.000050	mg/L	12-JUL-20	13-JUL-20	R5151383
Sodium (Na)-Dissolved	1.94		0.050	mg/L	12-JUL-20	13-JUL-20	R5151383
Strontium (Sr)-Dissolved	0.505		0.0010	mg/L	12-JUL-20	13-JUL-20	R5151383
Sulfur (S)-Dissolved	12.4		0.50	mg/L	12-JUL-20	13-JUL-20	R5151383
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-JUL-20	13-JUL-20	R5151383
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-JUL-20	13-JUL-20	R5151383
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Titanium (Ti)-Dissolved	0.00185		0.00030	mg/L	12-JUL-20	13-JUL-20	R5151383
Tungsten (W)-Dissolved	0.00171		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Uranium (U)-Dissolved	0.000680		0.000010	mg/L	12-JUL-20	13-JUL-20	R5151383
Vanadium (V)-Dissolved	0.00176		0.00050	mg/L	12-JUL-20	13-JUL-20	R5151383
Zinc (Zn)-Dissolved	0.0045		0.0010	mg/L	12-JUL-20	13-JUL-20	R5151383
Zirconium (Zr)-Dissolved	0.00628		0.00020	mg/L	12-JUL-20	13-JUL-20	R5151383
L2471783-4 SP-GW-BL-385 Sampled By: Client on 07-JUL-20 @ 11:48 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	427		1.0	uS/cm		09-JUL-20	R5147398
Hardness (as CaCO3)	201		0.50	mg/L		15-JUL-20	
pH	7.74		0.10	pH		09-JUL-20	R5147398
Total Suspended Solids	62.0		3.0	mg/L		13-JUL-20	R5151696
Total Dissolved Solids	276		20	mg/L		11-JUL-20	R5148982
Anions and Nutrients							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-4 SP-GW-BL-385 Sampled By: Client on 07-JUL-20 @ 11:48 Matrix: Ground Water							
Anions and Nutrients							
Acidity (as CaCO3)	8.0		2.0	mg/L		09-JUL-20	R5147398
Alkalinity, Total (as CaCO3)	193		2.0	mg/L		10-JUL-20	R5148162
Ammonia, Total (as N)	<0.010		0.010	mg/L		13-JUL-20	R5152437
Bromide (Br)	0.21		0.10	mg/L		13-JUL-20	R5150638
Chloride (Cl)	22.6		0.10	mg/L		13-JUL-20	R5150638
Fluoride (F)	0.036		0.020	mg/L		13-JUL-20	R5150638
Nitrate (as N)	0.092		0.020	mg/L		13-JUL-20	R5150638
Nitrite (as N)	<0.010		0.010	mg/L		13-JUL-20	R5150638
Phosphorus, Total	<0.0030		0.0030	mg/L	13-JUL-20	15-JUL-20	R5153706
Silica, Reactive (as SiO2)	10.8		1.0	mg/L		17-JUL-20	R5157312
Sulfate (SO4)	13.9		0.30	mg/L		13-JUL-20	R5150638
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-JUL-20	R5152263
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				07-JUL-20	10-JUL-20	R5148047
Dissolved Organic Carbon	14.1	DLM	5.0	mg/L	07-JUL-20	15-JUL-20	R5154537
Total Metals							
Aluminum (Al)-Total	0.126		0.0050	mg/L	10-JUL-20	10-JUL-20	R5150821
Antimony (Sb)-Total	0.00183		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Arsenic (As)-Total	0.00550		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Barium (Ba)-Total	0.0570		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Boron (B)-Total	0.012		0.010	mg/L	10-JUL-20	10-JUL-20	R5150821
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Calcium (Ca)-Total	63.1		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821
Cesium (Cs)-Total	0.000139		0.000010	mg/L	10-JUL-20	10-JUL-20	R5150821
Chromium (Cr)-Total	0.00085		0.00050	mg/L	10-JUL-20	14-JUL-20	R5150821
Cobalt (Co)-Total	0.00043		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Copper (Cu)-Total	0.00206		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Iron (Fe)-Total	1.51		0.010	mg/L	10-JUL-20	10-JUL-20	R5150821
Lead (Pb)-Total	0.000091		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Lithium (Li)-Total	0.0011		0.0010	mg/L	10-JUL-20	10-JUL-20	R5150821
Magnesium (Mg)-Total	12.4		0.0050	mg/L	10-JUL-20	10-JUL-20	R5150821
Manganese (Mn)-Total	0.0476		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Molybdenum (Mo)-Total	0.000435		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Nickel (Ni)-Total	0.00171		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Phosphorus (P)-Total	<0.050		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821
Potassium (K)-Total	0.757		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821
Rubidium (Rb)-Total	0.00145		0.00020	mg/L	10-JUL-20	10-JUL-20	R5150821
Selenium (Se)-Total	0.000276		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Silicon (Si)-Total	5.33		0.10	mg/L	10-JUL-20	10-JUL-20	R5150821

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-4 SP-GW-BL-385 Sampled By: Client on 07-JUL-20 @ 11:48 Matrix: Ground Water							
Total Metals							
Silver (Ag)-Total	<0.000050		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Sodium (Na)-Total	3.46		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821
Strontium (Sr)-Total	0.205		0.0010	mg/L	10-JUL-20	10-JUL-20	R5150821
Sulfur (S)-Total	5.13		0.50	mg/L	10-JUL-20	10-JUL-20	R5150821
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	10-JUL-20	10-JUL-20	R5150821
Thallium (Tl)-Total	0.000013		0.000010	mg/L	10-JUL-20	10-JUL-20	R5150821
Thorium (Th)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Tin (Sn)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Titanium (Ti)-Total	0.00208		0.00030	mg/L	10-JUL-20	10-JUL-20	R5150821
Tungsten (W)-Total	0.00037		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Uranium (U)-Total	0.000161		0.000010	mg/L	10-JUL-20	10-JUL-20	R5150821
Vanadium (V)-Total	<0.00050		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	10-JUL-20	10-JUL-20	R5150821
Zirconium (Zr)-Total	0.00066		0.00020	mg/L	10-JUL-20	10-JUL-20	R5150821
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-JUL-20	R5148923
Dissolved Metals Filtration Location	FIELD					14-JUL-20	R5151337
Aluminum (Al)-Dissolved	0.0284		0.0050	mg/L	14-JUL-20	14-JUL-20	R5153438
Antimony (Sb)-Dissolved	0.00111		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Arsenic (As)-Dissolved	0.00100		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Barium (Ba)-Dissolved	0.0552		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Boron (B)-Dissolved	0.010		0.010	mg/L	14-JUL-20	14-JUL-20	R5153438
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Calcium (Ca)-Dissolved	62.5		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Cesium (Cs)-Dissolved	0.000109		0.000010	mg/L	14-JUL-20	14-JUL-20	R5153438
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438
Cobalt (Co)-Dissolved	0.00023		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Copper (Cu)-Dissolved	0.00143		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438
Iron (Fe)-Dissolved	0.133		0.010	mg/L	14-JUL-20	14-JUL-20	R5153438
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	14-JUL-20	14-JUL-20	R5153438
Magnesium (Mg)-Dissolved	10.9		0.0050	mg/L	14-JUL-20	14-JUL-20	R5153438
Manganese (Mn)-Dissolved	0.0358		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-JUL-20	13-JUL-20	R5150292
Molybdenum (Mo)-Dissolved	0.000259		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Nickel (Ni)-Dissolved	0.00103		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Potassium (K)-Dissolved	0.696		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Rubidium (Rb)-Dissolved	0.00128		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-4 SP-GW-BL-385 Sampled By: Client on 07-JUL-20 @ 11:48 Matrix: Ground Water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000257		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Silicon (Si)-Dissolved	5.09		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Silver (Ag)-Dissolved	<0.000050		0.000050	mg/L	14-JUL-20	14-JUL-20	R5153438
Sodium (Na)-Dissolved	3.04		0.050	mg/L	14-JUL-20	14-JUL-20	R5153438
Strontium (Sr)-Dissolved	0.191		0.0010	mg/L	14-JUL-20	14-JUL-20	R5153438
Sulfur (S)-Dissolved	4.78		0.50	mg/L	14-JUL-20	14-JUL-20	R5153438
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	14-JUL-20	14-JUL-20	R5153438
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	14-JUL-20	14-JUL-20	R5153438
Tungsten (W)-Dissolved	0.00018		0.00010	mg/L	14-JUL-20	14-JUL-20	R5153438
Uranium (U)-Dissolved	0.000138		0.000010	mg/L	14-JUL-20	14-JUL-20	R5153438
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	14-JUL-20	14-JUL-20	R5153438
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	14-JUL-20	14-JUL-20	R5153438
Zirconium (Zr)-Dissolved	0.00032		0.00020	mg/L	14-JUL-20	14-JUL-20	R5153438
L2471783-5 GW TRIP BLANK Sampled By: Client on 06-JUL-20 @ 00:01 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	1.4		1.0	uS/cm		09-JUL-20	R5147398
Hardness (as CaCO3)	<0.50		0.50	mg/L		15-JUL-20	
pH	5.75		0.10	pH		09-JUL-20	R5147398
Total Suspended Solids	<3.0		3.0	mg/L		10-JUL-20	R5148273
Total Dissolved Solids	<10		10	mg/L		10-JUL-20	R5148278
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		09-JUL-20	R5147398
Alkalinity, Total (as CaCO3)	<2.0		2.0	mg/L		10-JUL-20	R5148162
Ammonia, Total (as N)	<0.010		0.010	mg/L		13-JUL-20	R5152437
Bromide (Br)	<0.10		0.10	mg/L		13-JUL-20	R5150638
Chloride (Cl)	<0.10		0.10	mg/L		13-JUL-20	R5150638
Fluoride (F)	<0.020		0.020	mg/L		13-JUL-20	R5150638
Nitrate (as N)	<0.020		0.020	mg/L		13-JUL-20	R5150638
Nitrite (as N)	<0.010		0.010	mg/L		13-JUL-20	R5150638
Phosphorus, Total	<0.0030		0.0030	mg/L	13-JUL-20	15-JUL-20	R5153706
Silica, Reactive (as SiO2)	<0.010		0.010	mg/L		17-JUL-20	R5157331
Sulfate (SO4)	<0.30		0.30	mg/L		13-JUL-20	R5150638
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-JUL-20	R5152263
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				06-JUL-20	10-JUL-20	R5148047
Dissolved Organic Carbon	<0.50		0.50	mg/L	06-JUL-20	15-JUL-20	R5154537

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-5 GW TRIP BLANK Sampled By: Client on 06-JUL-20 @ 00:01 Matrix: Ground Water							
Organic / Inorganic Carbon							
Total Metals							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	10-JUL-20	14-JUL-20	R5150821
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Arsenic (As)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Barium (Ba)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Boron (B)-Total	<0.010		0.010	mg/L	10-JUL-20	10-JUL-20	R5150821
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Calcium (Ca)-Total	<0.050		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	10-JUL-20	10-JUL-20	R5150821
Chromium (Cr)-Total	<0.00050		0.00050	mg/L	10-JUL-20	14-JUL-20	R5150821
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Copper (Cu)-Total	<0.00050		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Iron (Fe)-Total	<0.010		0.010	mg/L	10-JUL-20	10-JUL-20	R5150821
Lead (Pb)-Total	<0.000050		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Lithium (Li)-Total	<0.0010		0.0010	mg/L	10-JUL-20	10-JUL-20	R5150821
Magnesium (Mg)-Total	<0.0050		0.0050	mg/L	10-JUL-20	10-JUL-20	R5150821
Manganese (Mn)-Total	<0.00050		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Molybdenum (Mo)-Total	<0.000050		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Phosphorus (P)-Total	<0.050		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821
Potassium (K)-Total	<0.050		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	10-JUL-20	10-JUL-20	R5150821
Selenium (Se)-Total	<0.000050		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Silicon (Si)-Total	<0.10		0.10	mg/L	10-JUL-20	10-JUL-20	R5150821
Silver (Ag)-Total	<0.000050		0.000050	mg/L	10-JUL-20	10-JUL-20	R5150821
Sodium (Na)-Total	<0.050		0.050	mg/L	10-JUL-20	10-JUL-20	R5150821
Strontium (Sr)-Total	<0.0010		0.0010	mg/L	10-JUL-20	10-JUL-20	R5150821
Sulfur (S)-Total	<0.50		0.50	mg/L	10-JUL-20	10-JUL-20	R5150821
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	10-JUL-20	10-JUL-20	R5150821
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	10-JUL-20	10-JUL-20	R5150821
Thorium (Th)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Tin (Sn)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	10-JUL-20	10-JUL-20	R5150821
Tungsten (W)-Total	<0.00010		0.00010	mg/L	10-JUL-20	10-JUL-20	R5150821
Uranium (U)-Total	<0.000010		0.000010	mg/L	10-JUL-20	10-JUL-20	R5150821
Vanadium (V)-Total	<0.00050		0.00050	mg/L	10-JUL-20	10-JUL-20	R5150821
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	10-JUL-20	10-JUL-20	R5150821
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	10-JUL-20	10-JUL-20	R5150821
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-5 GW TRIP BLANK Sampled By: Client on 06-JUL-20 @ 00:01 Matrix: Ground Water							
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-JUL-20	R5148923
Dissolved Metals Filtration Location	FIELD					12-JUL-20	R5149137
Aluminum (Al)-Dissolved	<0.0050		0.0050	mg/L	12-JUL-20	13-JUL-20	R5151383
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Barium (Ba)-Dissolved	<0.00010		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-JUL-20	13-JUL-20	R5151383
Boron (B)-Dissolved	<0.010		0.010	mg/L	12-JUL-20	14-JUL-20	R5151383
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	12-JUL-20	13-JUL-20	R5151383
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	12-JUL-20	13-JUL-20	R5151383
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	12-JUL-20	13-JUL-20	R5151383
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	12-JUL-20	13-JUL-20	R5151383
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	12-JUL-20	13-JUL-20	R5151383
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	12-JUL-20	13-JUL-20	R5151383
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	12-JUL-20	13-JUL-20	R5151383
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	12-JUL-20	13-JUL-20	R5151383
Magnesium (Mg)-Dissolved	<0.0050		0.0050	mg/L	12-JUL-20	13-JUL-20	R5151383
Manganese (Mn)-Dissolved	<0.00050		0.00050	mg/L	12-JUL-20	13-JUL-20	R5151383
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-JUL-20	13-JUL-20	R5150292
Molybdenum (Mo)-Dissolved	<0.000050		0.000050	mg/L	12-JUL-20	13-JUL-20	R5151383
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	12-JUL-20	13-JUL-20	R5151383
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	12-JUL-20	13-JUL-20	R5151383
Potassium (K)-Dissolved	<0.050		0.050	mg/L	12-JUL-20	13-JUL-20	R5151383
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	12-JUL-20	13-JUL-20	R5151383
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	12-JUL-20	13-JUL-20	R5151383
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	12-JUL-20	13-JUL-20	R5151383
Silver (Ag)-Dissolved	<0.000050		0.000050	mg/L	12-JUL-20	13-JUL-20	R5151383
Sodium (Na)-Dissolved	<0.050		0.050	mg/L	12-JUL-20	13-JUL-20	R5151383
Strontium (Sr)-Dissolved	<0.0010		0.0010	mg/L	12-JUL-20	13-JUL-20	R5151383
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	12-JUL-20	13-JUL-20	R5151383
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-JUL-20	13-JUL-20	R5151383
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-JUL-20	13-JUL-20	R5151383
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	12-JUL-20	13-JUL-20	R5151383
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	12-JUL-20	13-JUL-20	R5151383
Uranium (U)-Dissolved	<0.000010		0.000010	mg/L	12-JUL-20	13-JUL-20	R5151383
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	12-JUL-20	13-JUL-20	R5151383
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	12-JUL-20	13-JUL-20	R5151383

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2471783-5 GW TRIP BLANK Sampled By: Client on 06-JUL-20 @ 00:01 Matrix: Ground Water							
Dissolved Metals							
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	12-JUL-20	13-JUL-20	R5151383

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Dissolved Organic Carbon	MS-B	L2471783-1, -2, -3, -4, -5
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2471783-3, -5
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2471783-1, -2, -4
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2471783-3, -5
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2471783-1, -2, -4
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2471783-3, -5
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2471783-1, -2, -4
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2471783-3, -5
Matrix Spike	Potassium (K)-Dissolved	MS-B	L2471783-3, -5
Matrix Spike	Rubidium (Rb)-Dissolved	MS-B	L2471783-3, -5
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L2471783-3, -5
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L2471783-1, -2, -4
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2471783-3, -5
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2471783-1, -2, -4
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2471783-3, -5
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2471783-1, -2, -4
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L2471783-3, -5
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L2471783-1, -2, -4
Matrix Spike	Uranium (U)-Dissolved	MS-B	L2471783-3, -5
Matrix Spike	Uranium (U)-Dissolved	MS-B	L2471783-1, -2, -4
Matrix Spike	Barium (Ba)-Total	MS-B	L2471783-3, -4, -5
Matrix Spike	Barium (Ba)-Total	MS-B	L2471783-1, -2
Matrix Spike	Boron (B)-Total	MS-B	L2471783-1, -2
Matrix Spike	Calcium (Ca)-Total	MS-B	L2471783-3, -4, -5
Matrix Spike	Calcium (Ca)-Total	MS-B	L2471783-1, -2
Matrix Spike	Iron (Fe)-Total	MS-B	L2471783-3, -4, -5
Matrix Spike	Iron (Fe)-Total	MS-B	L2471783-1, -2
Matrix Spike	Lithium (Li)-Total	MS-B	L2471783-1, -2
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2471783-3, -4, -5
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2471783-1, -2
Matrix Spike	Manganese (Mn)-Total	MS-B	L2471783-3, -4, -5
Matrix Spike	Potassium (K)-Total	MS-B	L2471783-1, -2
Matrix Spike	Rubidium (Rb)-Total	MS-B	L2471783-1, -2
Matrix Spike	Silicon (Si)-Total	MS-B	L2471783-1, -2
Matrix Spike	Sodium (Na)-Total	MS-B	L2471783-3, -4, -5
Matrix Spike	Sodium (Na)-Total	MS-B	L2471783-1, -2
Matrix Spike	Strontium (Sr)-Total	MS-B	L2471783-3, -4, -5
Matrix Spike	Strontium (Sr)-Total	MS-B	L2471783-1, -2
Matrix Spike	Sulfur (S)-Total	MS-B	L2471783-3, -4, -5
Matrix Spike	Sulfur (S)-Total	MS-B	L2471783-1, -2
Matrix Spike	Uranium (U)-Total	MS-B	L2471783-1, -2
Matrix Spike	Ammonia, Total (as N)	MS-B	L2471783-1, -2, -3, -4, -5

Sample Parameter Qualifier key listed:

Qualifier	Description
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DLUI	Detection Limit Raised: Unknown Interference generated an apparent false positive test result.
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

Reference Information

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-WT	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-WT	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CN-TOT-WT	Water	Cyanide, Total	ISO 14403-2

Total cyanide is determined by the combination of UV digestion and distillation. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

When using this method, high levels of thiocyanate in samples can cause false positives at ~1-2% of the thiocyanate concentration. For samples with detectable cyanide analyzed by this method, ALS recommends analysis for thiocyanate to check for this potential interference

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-SCREEN-WT	Water	Conductivity Screen (Internal Use Only)	APHA 2510

Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-WT	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-WT	Water	Hardness	APHA 2340 B

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

HG-D-CVAA-VA	Water	Diss. Mercury in Water by CVAAS or CVAFS	APHA 3030B/EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.

MET-D-CCMS-WT	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-T-CCMS-WT	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

NH3-F-WT	Water	Ammonia in Water by Fluorescence	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

Reference Information

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

NO2-IC-WT	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-WT	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-WT	Water	Total P in Water by Colour	APHA 4500-P PHOSPHORUS

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorus is deteremined colourimetrically after persulphate digestion of the sample.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

SIO2-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-WT	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Contact: David Mchaina

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5147398								
WG3359143-2 LCS								
Acidity (as CaCO3)			102.2		%		85-115	09-JUL-20
WG3359219-2 LCS								
Acidity (as CaCO3)			101.8		%		85-115	09-JUL-20
WG3359143-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	09-JUL-20
WG3359219-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	09-JUL-20
ALK-TITR-TB	Water							
Batch R5148162								
WG3359152-2 LCS								
Alkalinity, Total (as CaCO3)			106.6		%		85-115	10-JUL-20
WG3359222-2 LCS								
Alkalinity, Total (as CaCO3)			104.7		%		85-115	10-JUL-20
WG3359152-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	10-JUL-20
WG3359222-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	10-JUL-20
BR-IC-N-WT	Water							
Batch R5150638								
WG3361147-2 LCS								
Bromide (Br)			105.8		%		85-115	13-JUL-20
WG3361147-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	13-JUL-20
CL-L-IC-N-WT	Water							
Batch R5150638								
WG3361147-2 LCS								
Chloride (Cl)			100.9		%		70-130	13-JUL-20
WG3361147-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	13-JUL-20
CN-TOT-WT	Water							
Batch R5152263								
WG3361196-7 DUP		**L2471783-5**						
Cyanide, Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	13-JUL-20
WG3361196-2 LCS								
Cyanide, Total			91.2		%		80-120	13-JUL-20
WG3361196-6 LCS								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-TOT-WT	Water							
Batch R5152263								
WG3361196-6 LCS								
Cyanide, Total			92.1		%		80-120	13-JUL-20
WG3361196-1 MB								
Cyanide, Total			<0.0020		mg/L		0.002	13-JUL-20
WG3361196-5 MB								
Cyanide, Total			<0.0020		mg/L		0.002	13-JUL-20
WG3361196-8 MS		**L2471783-5**						
Cyanide, Total			91.1		%		70-130	13-JUL-20
DOC-WT	Water							
Batch R5154537								
WG3360337-2 LCS								
Dissolved Organic Carbon			106.0		%		80-120	15-JUL-20
WG3360337-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	15-JUL-20
EC-TITR-TB	Water							
Batch R5147398								
WG3359143-2 LCS								
Conductivity (EC)			100.4		%		90-110	09-JUL-20
WG3359219-2 LCS								
Conductivity (EC)			100.9		%		90-110	09-JUL-20
WG3359143-1 MB								
Conductivity (EC)			1.1		uS/cm		2	09-JUL-20
WG3359219-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	09-JUL-20
F-IC-N-WT	Water							
Batch R5150638								
WG3361147-2 LCS								
Fluoride (F)			102.4		%		90-110	13-JUL-20
WG3361147-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	13-JUL-20
HG-D-CVAA-VA	Water							
Batch R5150292								
WG3360695-7 DUP		**L2471783-1**						
Mercury (Hg)-Dissolved		<0.0000050	<0.000005(	RPD-NA	mg/L	N/A	20	13-JUL-20
WG3360695-6 LCS								
Mercury (Hg)-Dissolved			104.0		%		80-120	13-JUL-20
WG3360695-5 MB		**NP**						

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAA-VA	Water							
Batch R5150292								
WG3360695-5 MB		**NP**						
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	13-JUL-20
WG3360695-8 MS		**L2471783-3**						
Mercury (Hg)-Dissolved			93.6		%		70-130	13-JUL-20
MET-D-CCMS-WT	Water							
Batch R5151383								
WG3360763-2 LCS								
Aluminum (Al)-Dissolved			96.4		%		80-120	13-JUL-20
Antimony (Sb)-Dissolved			93.2		%		80-120	13-JUL-20
Arsenic (As)-Dissolved			95.3		%		80-120	13-JUL-20
Barium (Ba)-Dissolved			93.1		%		80-120	13-JUL-20
Beryllium (Be)-Dissolved			92.0		%		80-120	13-JUL-20
Bismuth (Bi)-Dissolved			97.0		%		80-120	13-JUL-20
Boron (B)-Dissolved			88.7		%		80-120	13-JUL-20
Cadmium (Cd)-Dissolved			94.1		%		80-120	13-JUL-20
Calcium (Ca)-Dissolved			91.5		%		80-120	13-JUL-20
Cesium (Cs)-Dissolved			96.3		%		80-120	13-JUL-20
Chromium (Cr)-Dissolved			94.1		%		80-120	13-JUL-20
Cobalt (Co)-Dissolved			90.9		%		80-120	13-JUL-20
Copper (Cu)-Dissolved			91.7		%		80-120	13-JUL-20
Iron (Fe)-Dissolved			92.8		%		80-120	13-JUL-20
Lead (Pb)-Dissolved			99.9		%		80-120	13-JUL-20
Lithium (Li)-Dissolved			88.8		%		80-120	13-JUL-20
Magnesium (Mg)-Dissolved			100.7		%		80-120	13-JUL-20
Manganese (Mn)-Dissolved			95.3		%		80-120	13-JUL-20
Molybdenum (Mo)-Dissolved			93.1		%		80-120	13-JUL-20
Nickel (Ni)-Dissolved			91.5		%		80-120	13-JUL-20
Phosphorus (P)-Dissolved			102.6		%		80-120	13-JUL-20
Potassium (K)-Dissolved			91.2		%		80-120	13-JUL-20
Rubidium (Rb)-Dissolved			99.0		%		80-120	13-JUL-20
Selenium (Se)-Dissolved			95.4		%		80-120	13-JUL-20
Silicon (Si)-Dissolved			96.8		%		60-140	13-JUL-20
Silver (Ag)-Dissolved			94.9		%		80-120	13-JUL-20
Sodium (Na)-Dissolved			95.2		%		80-120	13-JUL-20
Strontium (Sr)-Dissolved			96.5		%		80-120	13-JUL-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	Water							
Batch R5151383								
WG3360763-2 LCS								
Sulfur (S)-Dissolved			96.3		%		80-120	13-JUL-20
Tellurium (Te)-Dissolved			91.9		%		80-120	13-JUL-20
Thallium (Tl)-Dissolved			96.1		%		80-120	13-JUL-20
Thorium (Th)-Dissolved			89.0		%		80-120	13-JUL-20
Tin (Sn)-Dissolved			91.0		%		80-120	13-JUL-20
Titanium (Ti)-Dissolved			91.4		%		80-120	13-JUL-20
Tungsten (W)-Dissolved			95.6		%		80-120	13-JUL-20
Uranium (U)-Dissolved			104.6		%		80-120	13-JUL-20
Vanadium (V)-Dissolved			94.7		%		80-120	13-JUL-20
Zinc (Zn)-Dissolved			93.8		%		80-120	13-JUL-20
Zirconium (Zr)-Dissolved			87.9		%		80-120	13-JUL-20
WG3360763-1 MB								
Aluminum (Al)-Dissolved			<0.0050		mg/L		0.005	13-JUL-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	13-JUL-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	13-JUL-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	13-JUL-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	13-JUL-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	13-JUL-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	13-JUL-20
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	13-JUL-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	13-JUL-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	13-JUL-20
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	13-JUL-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	13-JUL-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	13-JUL-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	13-JUL-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	13-JUL-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	13-JUL-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	13-JUL-20
Manganese (Mn)-Dissolved			<0.00050		mg/L		0.0005	13-JUL-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	13-JUL-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	13-JUL-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	13-JUL-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	13-JUL-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	Water							
Batch R5151383								
WG3360763-1 MB								
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	13-JUL-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	13-JUL-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	13-JUL-20
Silver (Ag)-Dissolved			<0.000050		mg/L		0.00005	13-JUL-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	13-JUL-20
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	13-JUL-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	13-JUL-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	13-JUL-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	13-JUL-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	13-JUL-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	13-JUL-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	13-JUL-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	13-JUL-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	13-JUL-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	13-JUL-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	13-JUL-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	13-JUL-20
Batch R5153438								
WG3361596-2 LCS								
Aluminum (Al)-Dissolved			97.4		%		80-120	14-JUL-20
Antimony (Sb)-Dissolved			97.2		%		80-120	14-JUL-20
Arsenic (As)-Dissolved			94.5		%		80-120	14-JUL-20
Barium (Ba)-Dissolved			96.6		%		80-120	14-JUL-20
Beryllium (Be)-Dissolved			97.4		%		80-120	14-JUL-20
Bismuth (Bi)-Dissolved			94.7		%		80-120	14-JUL-20
Boron (B)-Dissolved			97.1		%		80-120	14-JUL-20
Cadmium (Cd)-Dissolved			93.9		%		80-120	14-JUL-20
Calcium (Ca)-Dissolved			100.5		%		80-120	14-JUL-20
Cesium (Cs)-Dissolved			103.3		%		80-120	14-JUL-20
Chromium (Cr)-Dissolved			94.9		%		80-120	14-JUL-20
Cobalt (Co)-Dissolved			93.1		%		80-120	14-JUL-20
Copper (Cu)-Dissolved			93.0		%		80-120	14-JUL-20
Iron (Fe)-Dissolved			97.9		%		80-120	14-JUL-20
Lead (Pb)-Dissolved			98.6		%		80-120	14-JUL-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	Water							
Batch R5153438								
WG3361596-2 LCS								
Lithium (Li)-Dissolved			97.7		%		80-120	14-JUL-20
Magnesium (Mg)-Dissolved			98.8		%		80-120	14-JUL-20
Manganese (Mn)-Dissolved			95.2		%		80-120	14-JUL-20
Molybdenum (Mo)-Dissolved			96.4		%		80-120	14-JUL-20
Nickel (Ni)-Dissolved			94.3		%		80-120	14-JUL-20
Phosphorus (P)-Dissolved			103.0		%		80-120	14-JUL-20
Potassium (K)-Dissolved			95.4		%		80-120	14-JUL-20
Rubidium (Rb)-Dissolved			93.9		%		80-120	14-JUL-20
Selenium (Se)-Dissolved			95.5		%		80-120	14-JUL-20
Silicon (Si)-Dissolved			94.0		%		60-140	14-JUL-20
Silver (Ag)-Dissolved			95.5		%		80-120	14-JUL-20
Sodium (Na)-Dissolved			96.3		%		80-120	14-JUL-20
Strontium (Sr)-Dissolved			101.3		%		80-120	14-JUL-20
Sulfur (S)-Dissolved			93.9		%		80-120	14-JUL-20
Tellurium (Te)-Dissolved			95.4		%		80-120	14-JUL-20
Thallium (Tl)-Dissolved			97.3		%		80-120	14-JUL-20
Thorium (Th)-Dissolved			94.1		%		80-120	14-JUL-20
Tin (Sn)-Dissolved			94.6		%		80-120	14-JUL-20
Titanium (Ti)-Dissolved			93.1		%		80-120	14-JUL-20
Tungsten (W)-Dissolved			100.9		%		80-120	14-JUL-20
Uranium (U)-Dissolved			102.3		%		80-120	14-JUL-20
Vanadium (V)-Dissolved			95.2		%		80-120	14-JUL-20
Zinc (Zn)-Dissolved			92.8		%		80-120	14-JUL-20
Zirconium (Zr)-Dissolved			92.6		%		80-120	14-JUL-20
WG3361596-1 MB								
Aluminum (Al)-Dissolved			<0.0050		mg/L		0.005	14-JUL-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	14-JUL-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	14-JUL-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	14-JUL-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	14-JUL-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	14-JUL-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	14-JUL-20
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	14-JUL-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	14-JUL-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	Water							
Batch R5153438								
WG3361596-1 MB								
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	14-JUL-20
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	14-JUL-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	14-JUL-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	14-JUL-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	14-JUL-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	14-JUL-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	14-JUL-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	14-JUL-20
Manganese (Mn)-Dissolved			<0.00050		mg/L		0.0005	14-JUL-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	14-JUL-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	14-JUL-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	14-JUL-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	14-JUL-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	14-JUL-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	14-JUL-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	14-JUL-20
Silver (Ag)-Dissolved			<0.000050		mg/L		0.00005	14-JUL-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	14-JUL-20
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	14-JUL-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	14-JUL-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	14-JUL-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	14-JUL-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	14-JUL-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	14-JUL-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	14-JUL-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	14-JUL-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	14-JUL-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	14-JUL-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	14-JUL-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	14-JUL-20
MET-T-CCMS-WT	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	Water							
Batch R5150821								
WG3360208-2 LCS								
Aluminum (Al)-Total			112.4		%		80-120	10-JUL-20
Antimony (Sb)-Total			110.9		%		80-120	10-JUL-20
Arsenic (As)-Total			105.7		%		80-120	10-JUL-20
Barium (Ba)-Total			104.3		%		80-120	10-JUL-20
Beryllium (Be)-Total			113.5		%		80-120	10-JUL-20
Bismuth (Bi)-Total			103.9		%		80-120	10-JUL-20
Boron (B)-Total			113.4		%		80-120	10-JUL-20
Cadmium (Cd)-Total			105.9		%		80-120	10-JUL-20
Calcium (Ca)-Total			108.5		%		80-120	10-JUL-20
Chromium (Cr)-Total			106.8		%		80-120	10-JUL-20
Cesium (Cs)-Total			108.5		%		80-120	10-JUL-20
Cobalt (Co)-Total			106.0		%		80-120	10-JUL-20
Copper (Cu)-Total			105.9		%		80-120	10-JUL-20
Iron (Fe)-Total			108.8		%		80-120	10-JUL-20
Lead (Pb)-Total			104.5		%		80-120	10-JUL-20
Lithium (Li)-Total			113.4		%		80-120	10-JUL-20
Magnesium (Mg)-Total			114.8		%		80-120	10-JUL-20
Manganese (Mn)-Total			107.8		%		80-120	10-JUL-20
Molybdenum (Mo)-Total			107.2		%		80-120	10-JUL-20
Nickel (Ni)-Total			106.1		%		80-120	10-JUL-20
Phosphorus (P)-Total			109.5		%		70-130	10-JUL-20
Potassium (K)-Total			105.8		%		80-120	10-JUL-20
Rubidium (Rb)-Total			107.4		%		80-120	10-JUL-20
Selenium (Se)-Total			104.2		%		80-120	10-JUL-20
Silicon (Si)-Total			106.2		%		60-140	10-JUL-20
Silver (Ag)-Total			106.1		%		80-120	10-JUL-20
Sodium (Na)-Total			110.8		%		80-120	10-JUL-20
Strontium (Sr)-Total			110.8		%		80-120	10-JUL-20
Sulfur (S)-Total			106.9		%		80-120	10-JUL-20
Thallium (Tl)-Total			105.7		%		80-120	10-JUL-20
Tellurium (Te)-Total			99.7		%		80-120	10-JUL-20
Thorium (Th)-Total			105.0		%		70-130	10-JUL-20
Tin (Sn)-Total			103.8		%		80-120	10-JUL-20
Titanium (Ti)-Total			105.9		%		80-120	10-JUL-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	Water							
Batch R5150821								
WG3360208-2 LCS								
Tungsten (W)-Total			103.5		%		80-120	10-JUL-20
Uranium (U)-Total			109.8		%		80-120	10-JUL-20
Vanadium (V)-Total			107.1		%		80-120	10-JUL-20
Zinc (Zn)-Total			104.8		%		80-120	10-JUL-20
Zirconium (Zr)-Total			103.9		%		80-120	10-JUL-20
WG3360208-1 MB								
Aluminum (Al)-Total			<0.0050		mg/L		0.005	10-JUL-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	10-JUL-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	10-JUL-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	10-JUL-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	10-JUL-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	10-JUL-20
Boron (B)-Total			<0.010		mg/L		0.01	10-JUL-20
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	10-JUL-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	10-JUL-20
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	14-JUL-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	10-JUL-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	10-JUL-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	10-JUL-20
Iron (Fe)-Total			<0.010		mg/L		0.01	10-JUL-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	10-JUL-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	10-JUL-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	10-JUL-20
Manganese (Mn)-Total			<0.00050		mg/L		0.0005	10-JUL-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	10-JUL-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	10-JUL-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	10-JUL-20
Potassium (K)-Total			<0.050		mg/L		0.05	10-JUL-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	10-JUL-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	10-JUL-20
Silicon (Si)-Total			<0.10		mg/L		0.1	10-JUL-20
Silver (Ag)-Total			<0.000050		mg/L		0.00005	10-JUL-20
Sodium (Na)-Total			<0.050		mg/L		0.05	10-JUL-20
Strontium (Sr)-Total			<0.0010		mg/L		0.001	10-JUL-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	Water							
Batch R5150821								
WG3360208-1 MB								
Sulfur (S)-Total			<0.50		mg/L		0.5	10-JUL-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	10-JUL-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	10-JUL-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	10-JUL-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	10-JUL-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	10-JUL-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	10-JUL-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	10-JUL-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	10-JUL-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	10-JUL-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	10-JUL-20
Batch R5151860								
WG3361573-2 LCS								
Aluminum (Al)-Total			99.9		%		80-120	14-JUL-20
Antimony (Sb)-Total			101.4		%		80-120	14-JUL-20
Arsenic (As)-Total			99.8		%		80-120	14-JUL-20
Barium (Ba)-Total			96.4		%		80-120	14-JUL-20
Beryllium (Be)-Total			99.3		%		80-120	14-JUL-20
Bismuth (Bi)-Total			98.6		%		80-120	14-JUL-20
Boron (B)-Total			100.0		%		80-120	14-JUL-20
Cadmium (Cd)-Total			100.7		%		80-120	14-JUL-20
Calcium (Ca)-Total			98.7		%		80-120	14-JUL-20
Chromium (Cr)-Total			99.0		%		80-120	14-JUL-20
Cesium (Cs)-Total			96.1		%		80-120	14-JUL-20
Cobalt (Co)-Total			99.2		%		80-120	14-JUL-20
Copper (Cu)-Total			99.4		%		80-120	14-JUL-20
Iron (Fe)-Total			98.6		%		80-120	14-JUL-20
Lead (Pb)-Total			101.7		%		80-120	14-JUL-20
Lithium (Li)-Total			97.8		%		80-120	14-JUL-20
Magnesium (Mg)-Total			106.6		%		80-120	14-JUL-20
Manganese (Mn)-Total			97.7		%		80-120	14-JUL-20
Molybdenum (Mo)-Total			95.6		%		80-120	14-JUL-20
Nickel (Ni)-Total			99.6		%		80-120	14-JUL-20
Phosphorus (P)-Total			95.8		%		70-130	14-JUL-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	Water							
Batch R5151860								
WG3361573-2 LCS								
Potassium (K)-Total			94.6		%		80-120	14-JUL-20
Rubidium (Rb)-Total			101.6		%		80-120	14-JUL-20
Selenium (Se)-Total			100.6		%		80-120	14-JUL-20
Silicon (Si)-Total			99.7		%		60-140	14-JUL-20
Silver (Ag)-Total			96.4		%		80-120	14-JUL-20
Sodium (Na)-Total			104.5		%		80-120	14-JUL-20
Strontium (Sr)-Total			95.6		%		80-120	14-JUL-20
Sulfur (S)-Total			89.0		%		80-120	14-JUL-20
Thallium (Tl)-Total			101.8		%		80-120	14-JUL-20
Tellurium (Te)-Total			96.3		%		80-120	14-JUL-20
Thorium (Th)-Total			96.9		%		70-130	14-JUL-20
Tin (Sn)-Total			97.6		%		80-120	14-JUL-20
Titanium (Ti)-Total			93.8		%		80-120	14-JUL-20
Tungsten (W)-Total			103.9		%		80-120	14-JUL-20
Uranium (U)-Total			104.0		%		80-120	14-JUL-20
Vanadium (V)-Total			100.8		%		80-120	14-JUL-20
Zinc (Zn)-Total			99.2		%		80-120	14-JUL-20
Zirconium (Zr)-Total			89.9		%		80-120	14-JUL-20
WG3361573-1 MB								
Aluminum (Al)-Total			<0.0050		mg/L		0.005	14-JUL-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	14-JUL-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	14-JUL-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	14-JUL-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	14-JUL-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	14-JUL-20
Boron (B)-Total			<0.010		mg/L		0.01	14-JUL-20
Cadmium (Cd)-Total			<0.000005C		mg/L		0.000005	14-JUL-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	14-JUL-20
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	14-JUL-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	14-JUL-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	14-JUL-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	14-JUL-20
Iron (Fe)-Total			<0.010		mg/L		0.01	14-JUL-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	14-JUL-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	Water							
Batch R5151860								
WG3361573-1 MB								
Lithium (Li)-Total			<0.0010		mg/L		0.001	14-JUL-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	14-JUL-20
Manganese (Mn)-Total			<0.00050		mg/L		0.0005	14-JUL-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	14-JUL-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	14-JUL-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	14-JUL-20
Potassium (K)-Total			<0.050		mg/L		0.05	14-JUL-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	14-JUL-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	14-JUL-20
Silicon (Si)-Total			<0.10		mg/L		0.1	14-JUL-20
Silver (Ag)-Total			<0.000050		mg/L		0.00005	14-JUL-20
Sodium (Na)-Total			<0.050		mg/L		0.05	14-JUL-20
Strontium (Sr)-Total			<0.0010		mg/L		0.001	14-JUL-20
Sulfur (S)-Total			<0.50		mg/L		0.5	14-JUL-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	14-JUL-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	14-JUL-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	14-JUL-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	14-JUL-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	14-JUL-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	14-JUL-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	14-JUL-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	14-JUL-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	14-JUL-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	14-JUL-20
NH3-F-WT	Water							
Batch R5152437								
WG3360237-2 LCS								
Ammonia, Total (as N)			101.2		%		85-115	13-JUL-20
WG3360237-1 MB								
Ammonia, Total (as N)			<0.010		mg/L		0.01	13-JUL-20
NO2-IC-WT	Water							
Batch R5150638								
WG3361147-2 LCS								
Nitrite (as N)			103.4		%		90-110	13-JUL-20
WG3361147-1 MB								

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-IC-WT	Water							
Batch R5150638								
WG3361147-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	13-JUL-20
NO3-IC-WT	Water							
Batch R5150638								
WG3361147-2 LCS								
Nitrate (as N)			101.4		%		90-110	13-JUL-20
WG3361147-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	13-JUL-20
P-T-COL-WT	Water							
Batch R5153706								
WG3360242-2 LCS								
Phosphorus, Total			94.5		%		80-120	15-JUL-20
WG3360242-1 MB								
Phosphorus, Total			<0.0030		mg/L		0.003	15-JUL-20
PH-TITR-TB	Water							
Batch R5147398								
WG3359143-2 LCS								
pH			6.96		pH		6.9-7.1	09-JUL-20
WG3359219-2 LCS								
pH			6.95		pH		6.9-7.1	09-JUL-20
SIO2-COL-WP	Water							
Batch R5157312								
WG3365051-2 LCS								
Silica, Reactive (as SiO2)			101.0		%		85-115	17-JUL-20
WG3365051-1 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	17-JUL-20
SIO2-L-COL-WP	Water							
Batch R5157331								
WG3365077-2 LCS								
Silica, Reactive (as SiO2)			98.4		%		85-115	17-JUL-20
WG3365077-1 MB								
Silica, Reactive (as SiO2)			<0.010		mg/L		0.01	17-JUL-20
WG3365077-4 MS		**L2471783-5**						
Silica, Reactive (as SiO2)			101.6		%		75-125	17-JUL-20
SO4-IC-N-WT	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-IC-N-WT	Water							
Batch R5150638								
WG3361147-2 LCS								
Sulfate (SO4)			101.4		%		90-110	13-JUL-20
WG3361147-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	13-JUL-20
TDS-TB	Water							
Batch R5148278								
WG3360136-2 LCS								
Total Dissolved Solids			99.4		%		85-115	10-JUL-20
WG3360136-1 MB								
Total Dissolved Solids			<10		mg/L		10	10-JUL-20
Batch R5148982								
WG3360414-2 LCS								
Total Dissolved Solids			99.8		%		85-115	11-JUL-20
WG3360414-1 MB								
Total Dissolved Solids			<10		mg/L		10	11-JUL-20
TSS-TB	Water							
Batch R5148273								
WG3360128-2 LCS								
Total Suspended Solids			89.7		%		85-115	10-JUL-20
WG3360128-1 MB								
Total Suspended Solids			<3.0		mg/L		3	10-JUL-20
Batch R5148936								
WG3360556-2 LCS								
Total Suspended Solids			86.8		%		85-115	11-JUL-20
WG3360556-1 MB								
Total Suspended Solids			<3.0		mg/L		3	11-JUL-20
Batch R5151696								
WG3361006-14 LCS								
Total Suspended Solids			97.7		%		85-115	13-JUL-20
WG3361006-13 MB								
Total Suspended Solids			<3.0		mg/L		3	13-JUL-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2471783-COFC

COC Number: 17 -

JD Page 1 of 1

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☒ PDF ☒ EXCEL ☒ EDD (DIGITAL)
Quality Control (QC) Report with Report	☒ YES ☐ NO
☒ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shila@firstmininggold.com
Email 3	shaun@firstmininggold.com

Invoice Distribution	
Select Invoice Distribution:	☒ EMAIL ☒ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Project Information	
ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole GW
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2471783 **ALS Contact:** **Sampler:**

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

NUMBER OF CONTAINERS

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity	Dissolved Metals, Total Metals	Dissolved Mercury	DOC, F, Hardness, NO2,NO3, pH, SO4	TDS	Total Cyanide	Total Phosphorus, TSS	Reactive Silica	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	SP-GW-MW5	06 Jul 20	14:30	Ground Water	x	x	x	x	x	x	x	x		
	SP-GW-SP11-064	06 Jul 20	16:36	Ground Water	x	x	x	x	x	x	x	x		
	SP-GW-BL-235	07 Jul 20	10:07	Ground Water	x	x	x	x	x	x	x	x		
	SP-GW-BL-385	07 Jul 20	11:48	Ground Water	x	x	x	x	x	x	x	x		
				Ground Water	x	x	x	x	x	x	x	x		
				Ground Water	x	x	x	x	x	x	x	x		
				Ground Water	x	x	x	x	x	x	x	x		
				Ground Water	x	x	x	x	x	x	x	x		
				Ground Water	x	x	x	x	x	x	x	x		
				Ground Water	x	x	x	x	x	x	x	x		
				Ground Water	x	x	x	x	x	x	x	x		
				Ground Water	x	x	x	x	x	x	x	x		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

#SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐

Ice Packs ☐ Ice Cubes ☑ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.3							

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date: July 9/20	Time: 9:42

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: David Mchaina
c/ o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 17- JUL- 20
Report Date: 27- JUL- 20 15:30 (MT)
Version: FINAL

Client Phone: 705- 929- 5245

Certificate of Analysis

Lab Work Order #: L2475724

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE GW
C of C Numbers:
Legal Site Desc: First Mining Gold Project



Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-1 SP-GW-MW2 Sampled By: Client on 14-JUL-20 @ 10:22 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	543		1.0	uS/cm		18-JUL-20	R5157813
Hardness (as CaCO3)	292		0.50	mg/L		22-JUL-20	
pH	7.74		0.10	pH		18-JUL-20	R5157813
Total Suspended Solids	9690		15	mg/L		18-JUL-20	R5157847
Total Dissolved Solids	454		40	mg/L		18-JUL-20	R5157854
Anions and Nutrients							
Acidity (as CaCO3)	10.0		2.0	mg/L		21-JUL-20	R5160249
Alkalinity, Total (as CaCO3)	452		2.0	mg/L		18-JUL-20	R5157813
Ammonia, Total (as N)	0.027		0.010	mg/L		24-JUL-20	R5166743
Bromide (Br)	<0.10		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041
Chloride (Cl)	0.15		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041
Fluoride (F)	0.071		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrate (as N)	<0.020		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrite (as N)	<0.010		0.010	mg/L	17-JUL-20	18-JUL-20	R5158041
Phosphorus (P)-Total	10.1		0.75	mg/L	23-JUL-20	23-JUL-20	R5165202
Silica, Reactive (as SiO2)	16.1		1.0	mg/L		22-JUL-20	R5161758
Sulfate (SO4)	5.87		0.30	mg/L	17-JUL-20	18-JUL-20	R5158041
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		21-JUL-20	R5159943
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				14-JUL-20	18-JUL-20	R5157706
Dissolved Organic Carbon	5.3	DLM	5.0	mg/L	14-JUL-20	22-JUL-20	R5165618
Total Metals							
Aluminum (Al)-Total	58.1		0.015	mg/L	18-JUL-20	20-JUL-20	R5159695
Antimony (Sb)-Total	<0.00050	DLHC	0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Arsenic (As)-Total	0.0125		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Barium (Ba)-Total	0.436		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Beryllium (Be)-Total	0.00219		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Bismuth (Bi)-Total	0.00047		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Boron (B)-Total	0.057		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cadmium (Cd)-Total	0.000646		0.000025	mg/L	18-JUL-20	20-JUL-20	R5159695
Calcium (Ca)-Total	621		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Cesium (Cs)-Total	0.00653		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Chromium (Cr)-Total	0.122		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cobalt (Co)-Total	0.0358		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Copper (Cu)-Total	0.112		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Iron (Fe)-Total	78.4		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Lead (Pb)-Total	0.0340		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Lithium (Li)-Total	0.0980		0.0050	mg/L	18-JUL-20	20-JUL-20	R5159695
Magnesium (Mg)-Total	184		0.025	mg/L	18-JUL-20	20-JUL-20	R5159695
Manganese (Mn)-Total	1.96		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Molybdenum (Mo)-Total	0.00073		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-1 SP-GW-MW2 Sampled By: Client on 14-JUL-20 @ 10:22 Matrix: Ground Water							
Total Metals							
Nickel (Ni)-Total	0.0965		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Phosphorus (P)-Total	6.41		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Potassium (K)-Total	13.7		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Rubidium (Rb)-Total	0.135		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Selenium (Se)-Total	0.00025		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Silicon (Si)-Total	73.8		0.50	mg/L	18-JUL-20	20-JUL-20	R5159695
Silver (Ag)-Total	0.000321		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Sodium (Na)-Total	5.98		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Strontium (Sr)-Total	0.512		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Sulfur (S)-Total	<2.5	DLHC	2.5	mg/L	18-JUL-20	20-JUL-20	R5159695
Tellurium (Te)-Total	<0.0010	DLHC	0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Thallium (Tl)-Total	0.00118		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Thorium (Th)-Total	0.0378		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Tin (Sn)-Total	0.00075		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Titanium (Ti)-Total	2.96		0.0015	mg/L	18-JUL-20	20-JUL-20	R5159695
Tungsten (W)-Total	<0.00050	DLHC	0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Uranium (U)-Total	0.00385		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Vanadium (V)-Total	0.134		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Zinc (Zn)-Total	0.212		0.015	mg/L	18-JUL-20	20-JUL-20	R5159695
Zirconium (Zr)-Total	0.0034		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-JUL-20	R5162836
Dissolved Metals Filtration Location	FIELD					21-JUL-20	R5160001
Aluminum (Al)-Dissolved	0.0012		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Arsenic (As)-Dissolved	0.00017		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Barium (Ba)-Dissolved	0.0225		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cadmium (Cd)-Dissolved	0.0000060		0.0000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Calcium (Ca)-Dissolved	84.2		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cobalt (Co)-Dissolved	0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Copper (Cu)-Dissolved	0.00080		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Lithium (Li)-Dissolved	0.0052		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Magnesium (Mg)-Dissolved	19.8		0.0050	mg/L	21-JUL-20	21-JUL-20	R5162198
Manganese (Mn)-Dissolved	0.0233		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-1 SP-GW-MW2 Sampled By: Client on 14-JUL-20 @ 10:22 Matrix: Ground Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-20	22-JUL-20	R5160386
Molybdenum (Mo)-Dissolved	0.000459		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Nickel (Ni)-Dissolved	0.00074		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Potassium (K)-Dissolved	0.958		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Rubidium (Rb)-Dissolved	0.00070		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silicon (Si)-Dissolved	7.85		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Sodium (Na)-Dissolved	2.80		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Strontium (Sr)-Dissolved	0.0990		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Sulfur (S)-Dissolved	1.73		0.50	mg/L	21-JUL-20	21-JUL-20	R5162198
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-20	21-JUL-20	R5162198
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Uranium (U)-Dissolved	0.000410		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Vanadium (V)-Dissolved	0.00096		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
L2475724-2 SP-GW-MW3 Sampled By: Client on 14-JUL-20 @ 13:33 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	174		1.0	uS/cm		18-JUL-20	R5157813
Hardness (as CaCO3)	89.8		0.50	mg/L		22-JUL-20	
pH	7.00		0.10	pH		18-JUL-20	R5157813
Total Suspended Solids	2070		15	mg/L		18-JUL-20	R5157847
Total Dissolved Solids	195		40	mg/L		18-JUL-20	R5157854
Anions and Nutrients							
Acidity (as CaCO3)	15.6		2.0	mg/L		21-JUL-20	R5160249
Alkalinity, Total (as CaCO3)	104		2.0	mg/L		18-JUL-20	R5157813
Ammonia, Total (as N)	0.172		0.010	mg/L		24-JUL-20	R5166743
Bromide (Br)	<0.10		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041
Chloride (Cl)	0.20		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041
Fluoride (F)	0.050		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrate (as N)	<0.020		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrite (as N)	<0.010		0.010	mg/L	17-JUL-20	18-JUL-20	R5158041
Phosphorus (P)-Total	3.19		0.15	mg/L	23-JUL-20	23-JUL-20	R5165202
Silica, Reactive (as SiO2)	10.7		1.0	mg/L		22-JUL-20	R5161758

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-2 SP-GW-MW3 Sampled By: Client on 14-JUL-20 @ 13:33 Matrix: Ground Water							
Anions and Nutrients							
Sulfate (SO4)	0.52		0.30	mg/L	17-JUL-20	18-JUL-20	R5158041
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		21-JUL-20	R5159943
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				14-JUL-20	18-JUL-20	R5157706
Dissolved Organic Carbon	40.7	DLM	5.0	mg/L	14-JUL-20	22-JUL-20	R5165618
Total Metals							
Aluminum (Al)-Total	32.0		0.015	mg/L	18-JUL-20	20-JUL-20	R5159695
Antimony (Sb)-Total	<0.00050	DLHC	0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Arsenic (As)-Total	0.0163		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Barium (Ba)-Total	0.255		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Beryllium (Be)-Total	0.00085		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Bismuth (Bi)-Total	0.00033		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Boron (B)-Total	<0.050	DLHC	0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cadmium (Cd)-Total	0.000186		0.000025	mg/L	18-JUL-20	20-JUL-20	R5159695
Calcium (Ca)-Total	48.3		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Cesium (Cs)-Total	0.00425		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Chromium (Cr)-Total	0.0971		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cobalt (Co)-Total	0.0279		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Copper (Cu)-Total	0.0315		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Iron (Fe)-Total	54.6		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Lead (Pb)-Total	0.0283		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Lithium (Li)-Total	0.0633		0.0050	mg/L	18-JUL-20	20-JUL-20	R5159695
Magnesium (Mg)-Total	18.5		0.025	mg/L	18-JUL-20	20-JUL-20	R5159695
Manganese (Mn)-Total	2.60		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Molybdenum (Mo)-Total	0.00055		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Nickel (Ni)-Total	0.0455		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Phosphorus (P)-Total	1.31		0.25	mg/L	18-JUL-20	21-JUL-20	R5162097
Potassium (K)-Total	3.13		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Rubidium (Rb)-Total	0.0408		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Selenium (Se)-Total	0.00041		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Silicon (Si)-Total	38.1		0.50	mg/L	18-JUL-20	20-JUL-20	R5159695
Silver (Ag)-Total	0.000310		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Sodium (Na)-Total	1.67		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Strontium (Sr)-Total	0.297		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Sulfur (S)-Total	<2.5	DLHC	2.5	mg/L	18-JUL-20	20-JUL-20	R5159695
Tellurium (Te)-Total	<0.0010	DLHC	0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Thallium (Tl)-Total	0.000352		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Thorium (Th)-Total	0.00424		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Tin (Sn)-Total	0.00107		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Titanium (Ti)-Total	1.28		0.0015	mg/L	18-JUL-20	20-JUL-20	R5159695
Tungsten (W)-Total	<0.00050	DLHC	0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-2 SP-GW-MW3 Sampled By: Client on 14-JUL-20 @ 13:33 Matrix: Ground Water							
Total Metals							
Uranium (U)-Total	0.00327		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Vanadium (V)-Total	0.0748		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Zinc (Zn)-Total	0.114		0.015	mg/L	18-JUL-20	20-JUL-20	R5159695
Zirconium (Zr)-Total	0.0023		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-JUL-20	R5162836
Dissolved Metals Filtration Location	FIELD					21-JUL-20	R5160001
Aluminum (Al)-Dissolved	0.120		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Arsenic (As)-Dissolved	0.00696		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Barium (Ba)-Dissolved	0.0414		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cadmium (Cd)-Dissolved	0.0000080		0.0000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Calcium (Ca)-Dissolved	28.2		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Chromium (Cr)-Dissolved	0.00059		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cobalt (Co)-Dissolved	0.00103		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Copper (Cu)-Dissolved	0.00030		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Iron (Fe)-Dissolved	4.79		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Lead (Pb)-Dissolved	0.000166		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Lithium (Li)-Dissolved	0.0012		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Magnesium (Mg)-Dissolved	4.69		0.0050	mg/L	21-JUL-20	21-JUL-20	R5162198
Manganese (Mn)-Dissolved	1.14		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-20	22-JUL-20	R5160386
Molybdenum (Mo)-Dissolved	0.000328		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Nickel (Ni)-Dissolved	0.00067		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Potassium (K)-Dissolved	0.513		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Rubidium (Rb)-Dissolved	0.00161		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Selenium (Se)-Dissolved	0.000083		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silicon (Si)-Dissolved	4.80		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Sodium (Na)-Dissolved	0.880		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Strontium (Sr)-Dissolved	0.175		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-20	21-JUL-20	R5162198
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Thorium (Th)-Dissolved	0.00019		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-2 SP-GW-MW3 Sampled By: Client on 14-JUL-20 @ 13:33 Matrix: Ground Water							
Dissolved Metals							
Titanium (Ti)-Dissolved	0.00486		0.00030	mg/L	21-JUL-20	21-JUL-20	R5162198
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Uranium (U)-Dissolved	0.000030		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Vanadium (V)-Dissolved	0.00321		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Zinc (Zn)-Dissolved	0.0028		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Zirconium (Zr)-Dissolved	0.00107		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
L2475724-3 SP-GW-MW4 Sampled By: Client on 14-JUL-20 @ 16:04 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	142		1.0	uS/cm		18-JUL-20	R5157813
Hardness (as CaCO3)	71.6		0.50	mg/L		22-JUL-20	
pH	6.82		0.10	pH		18-JUL-20	R5157813
Total Suspended Solids	32200		30	mg/L		18-JUL-20	R5157847
Total Dissolved Solids	735		80	mg/L		18-JUL-20	R5157854
Anions and Nutrients							
Acidity (as CaCO3)	16.7		2.0	mg/L		21-JUL-20	R5160249
Alkalinity, Total (as CaCO3)	77.7		2.0	mg/L		18-JUL-20	R5157813
Ammonia, Total (as N)	0.075		0.010	mg/L		24-JUL-20	R5166743
Bromide (Br)	<0.10		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041
Chloride (Cl)	0.12		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041
Fluoride (F)	0.051		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrate (as N)	0.057		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrite (as N)	<0.010		0.010	mg/L	17-JUL-20	18-JUL-20	R5158041
Phosphorus (P)-Total	16.7		0.75	mg/L	23-JUL-20	23-JUL-20	R5166267
Silica, Reactive (as SiO2)	14		10	mg/L		22-JUL-20	R5161758
Sulfate (SO4)	4.06		0.30	mg/L	17-JUL-20	18-JUL-20	R5158041
Cyanides							
Cyanide, Total	<0.010	DLM	0.010	mg/L		21-JUL-20	R5159943
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				14-JUL-20	18-JUL-20	R5157706
Dissolved Organic Carbon	21.7	DLM	5.0	mg/L	14-JUL-20	22-JUL-20	R5165618
Total Metals							
Aluminum (Al)-Total	174		0.030	mg/L	18-JUL-20	21-JUL-20	R5162097
Antimony (Sb)-Total	<0.00050	DLHC	0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Arsenic (As)-Total	0.0141		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Barium (Ba)-Total	1.91		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Beryllium (Be)-Total	0.00539		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Bismuth (Bi)-Total	0.00158		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Boron (B)-Total	<0.050	DLHC	0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cadmium (Cd)-Total	0.00125		0.000025	mg/L	18-JUL-20	20-JUL-20	R5159695
Calcium (Ca)-Total	101		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-3 SP-GW-MW4 Sampled By: Client on 14-JUL-20 @ 16:04 Matrix: Ground Water							
Total Metals							
Cesium (Cs)-Total	0.0201		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Chromium (Cr)-Total	0.414		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cobalt (Co)-Total	0.109		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Copper (Cu)-Total	0.879		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Iron (Fe)-Total	206		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Lead (Pb)-Total	0.0623		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Lithium (Li)-Total	0.204		0.0050	mg/L	18-JUL-20	20-JUL-20	R5159695
Magnesium (Mg)-Total	87.4		0.025	mg/L	18-JUL-20	20-JUL-20	R5159695
Manganese (Mn)-Total	6.56		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Molybdenum (Mo)-Total	0.00552		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Nickel (Ni)-Total	0.311		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Phosphorus (P)-Total	6.72		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Potassium (K)-Total	33.0		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Rubidium (Rb)-Total	0.520		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Selenium (Se)-Total	0.00105		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Silicon (Si)-Total	119		0.50	mg/L	18-JUL-20	20-JUL-20	R5159695
Silver (Ag)-Total	0.00134		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Sodium (Na)-Total	3.76		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Strontium (Sr)-Total	0.282		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Sulfur (S)-Total	<2.5	DLHC	2.5	mg/L	18-JUL-20	20-JUL-20	R5159695
Tellurium (Te)-Total	<0.0010	DLHC	0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Thallium (Tl)-Total	0.00348		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Thorium (Th)-Total	0.0327		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Tin (Sn)-Total	0.00095		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Titanium (Ti)-Total	2.92		0.0015	mg/L	18-JUL-20	20-JUL-20	R5159695
Tungsten (W)-Total	<0.00050	DLHC	0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Uranium (U)-Total	0.0105		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Vanadium (V)-Total	0.307		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Zinc (Zn)-Total	0.526		0.015	mg/L	18-JUL-20	20-JUL-20	R5159695
Zirconium (Zr)-Total	0.0052		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-JUL-20	R5162836
Dissolved Metals Filtration Location	FIELD					21-JUL-20	R5160001
Aluminum (Al)-Dissolved	0.0489		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Arsenic (As)-Dissolved	0.00030		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Barium (Ba)-Dissolved	0.0245		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cadmium (Cd)-Dissolved	0.0000220		0.0000050	mg/L	21-JUL-20	21-JUL-20	R5162198

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-3 SP-GW-MW4 Sampled By: Client on 14-JUL-20 @ 16:04 Matrix: Ground Water							
Dissolved Metals							
Calcium (Ca)-Dissolved	24.7		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Chromium (Cr)-Dissolved	0.00026		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cobalt (Co)-Dissolved	0.00011		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Copper (Cu)-Dissolved	0.00828		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Iron (Fe)-Dissolved	0.058		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Lead (Pb)-Dissolved	0.000099		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Lithium (Li)-Dissolved	0.0010		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Magnesium (Mg)-Dissolved	2.38		0.0050	mg/L	21-JUL-20	21-JUL-20	R5162198
Manganese (Mn)-Dissolved	0.131		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-20	22-JUL-20	R5160386
Molybdenum (Mo)-Dissolved	0.000890		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Nickel (Ni)-Dissolved	0.00199		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Potassium (K)-Dissolved	0.992		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Rubidium (Rb)-Dissolved	0.00119		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Selenium (Se)-Dissolved	0.000091		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silicon (Si)-Dissolved	4.77		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Sodium (Na)-Dissolved	1.35		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Strontium (Sr)-Dissolved	0.0471		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Sulfur (S)-Dissolved	1.51		0.50	mg/L	21-JUL-20	21-JUL-20	R5162198
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Titanium (Ti)-Dissolved	0.00358		0.00030	mg/L	21-JUL-20	21-JUL-20	R5162198
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Uranium (U)-Dissolved	0.000041		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Zinc (Zn)-Dissolved	0.0030		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Zirconium (Zr)-Dissolved	0.00034		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
L2475724-4 SP-GW-BL-334-D Sampled By: Client on 15-JUL-20 @ 12:00 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	507		1.0	uS/cm		18-JUL-20	R5157813
Hardness (as CaCO3)	245		0.50	mg/L		22-JUL-20	
pH	7.57		0.10	pH		18-JUL-20	R5157813
Total Suspended Solids	787		7.5	mg/L		18-JUL-20	R5157847
Total Dissolved Solids	381		20	mg/L		18-JUL-20	R5157854
Anions and Nutrients							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-4 SP-GW-BL-334-D Sampled By: Client on 15-JUL-20 @ 12:00 Matrix: Ground Water							
Anions and Nutrients							
Acidity (as CaCO3)	4.2		2.0	mg/L		21-JUL-20	R5160249
Alkalinity, Total (as CaCO3)	345		2.0	mg/L		18-JUL-20	R5157813
Ammonia, Total (as N)	0.370		0.010	mg/L		24-JUL-20	R5166743
Bromide (Br)	<0.10		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041
Chloride (Cl)	0.40		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041
Fluoride (F)	0.118		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrate (as N)	<0.020		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrite (as N)	<0.010		0.010	mg/L	17-JUL-20	18-JUL-20	R5158041
Phosphorus (P)-Total	0.527		0.030	mg/L	23-JUL-20	23-JUL-20	R5166267
Silica, Reactive (as SiO2)	13.9		1.0	mg/L		22-JUL-20	R5161758
Sulfate (SO4)	21.7		0.30	mg/L	17-JUL-20	18-JUL-20	R5158041
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		21-JUL-20	R5159943
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				15-JUL-20	18-JUL-20	R5157706
Dissolved Organic Carbon	14.3	DLM	5.0	mg/L	15-JUL-20	22-JUL-20	R5165618
Total Metals							
Aluminum (Al)-Total	31.0		0.015	mg/L	18-JUL-20	20-JUL-20	R5159695
Antimony (Sb)-Total	<0.00050	DLHC	0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Arsenic (As)-Total	0.00408		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Barium (Ba)-Total	0.350		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Beryllium (Be)-Total	0.00272		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Bismuth (Bi)-Total	0.00065		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Boron (B)-Total	<0.050	DLHC	0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cadmium (Cd)-Total	0.000311		0.000025	mg/L	18-JUL-20	20-JUL-20	R5159695
Calcium (Ca)-Total	183		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Cesium (Cs)-Total	0.00792		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Chromium (Cr)-Total	0.0588		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cobalt (Co)-Total	0.0271		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Copper (Cu)-Total	0.161		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Iron (Fe)-Total	32.9		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Lead (Pb)-Total	0.0274		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Lithium (Li)-Total	0.0285		0.0050	mg/L	18-JUL-20	20-JUL-20	R5159695
Magnesium (Mg)-Total	33.1		0.025	mg/L	18-JUL-20	20-JUL-20	R5159695
Manganese (Mn)-Total	1.26		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Molybdenum (Mo)-Total	0.00177		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Nickel (Ni)-Total	0.0522		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Phosphorus (P)-Total	<0.25	DLHC	0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Potassium (K)-Total	12.1		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Rubidium (Rb)-Total	0.0611		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Selenium (Se)-Total	0.00064		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Silicon (Si)-Total	47.8		0.50	mg/L	18-JUL-20	20-JUL-20	R5159695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-4 SP-GW-BL-334-D Sampled By: Client on 15-JUL-20 @ 12:00 Matrix: Ground Water							
Total Metals							
Silver (Ag)-Total	0.00503		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Sodium (Na)-Total	14.1		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Strontium (Sr)-Total	1.39		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Sulfur (S)-Total	6.1		2.5	mg/L	18-JUL-20	20-JUL-20	R5159695
Tellurium (Te)-Total	0.0020		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Thallium (Tl)-Total	0.000854		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Thorium (Th)-Total	0.0260		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Tin (Sn)-Total	<0.00050	DLHC	0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Titanium (Ti)-Total	0.212		0.0015	mg/L	18-JUL-20	20-JUL-20	R5159695
Tungsten (W)-Total	0.00366		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Uranium (U)-Total	0.00855		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Vanadium (V)-Total	0.0767		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Zinc (Zn)-Total	0.141		0.015	mg/L	18-JUL-20	20-JUL-20	R5159695
Zirconium (Zr)-Total	0.0012		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-JUL-20	R5162836
Dissolved Metals Filtration Location	FIELD					21-JUL-20	R5160001
Aluminum (Al)-Dissolved	0.0067		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Arsenic (As)-Dissolved	0.00036		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Barium (Ba)-Dissolved	0.0868		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Boron (B)-Dissolved	0.026		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cadmium (Cd)-Dissolved	0.0000110		0.0000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Calcium (Ca)-Dissolved	77.4		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Cesium (Cs)-Dissolved	0.000079		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Chromium (Cr)-Dissolved	0.00028		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cobalt (Co)-Dissolved	0.00188		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Copper (Cu)-Dissolved	0.00208		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Iron (Fe)-Dissolved	0.266		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Lithium (Li)-Dissolved	0.0032		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Magnesium (Mg)-Dissolved	12.5		0.0050	mg/L	21-JUL-20	21-JUL-20	R5162198
Manganese (Mn)-Dissolved	0.172		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-20	22-JUL-20	R5160386
Molybdenum (Mo)-Dissolved	0.00178		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Nickel (Ni)-Dissolved	0.00077		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Potassium (K)-Dissolved	4.33		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Rubidium (Rb)-Dissolved	0.00515		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-4 SP-GW-BL-334-D Sampled By: Client on 15-JUL-20 @ 12:00 Matrix: Ground Water							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000176		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silicon (Si)-Dissolved	6.18		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Sodium (Na)-Dissolved	11.3		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Strontium (Sr)-Dissolved	1.00		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Sulfur (S)-Dissolved	6.72		0.50	mg/L	21-JUL-20	21-JUL-20	R5162198
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-20	21-JUL-20	R5162198
Tungsten (W)-Dissolved	0.00276		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Uranium (U)-Dissolved	0.00169		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Vanadium (V)-Dissolved	0.00165		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Zinc (Zn)-Dissolved	0.0058		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Zirconium (Zr)-Dissolved	0.00048		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
L2475724-5 SP-GW-BL-321-D Sampled By: Client on 15-JUL-20 @ 16:30 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	431		1.0	uS/cm		18-JUL-20	R5157813
Hardness (as CaCO3)	186		0.50	mg/L		22-JUL-20	
pH	8.05		0.10	pH		18-JUL-20	R5157813
Total Suspended Solids	9.0		3.0	mg/L		18-JUL-20	R5157847
Total Dissolved Solids	255		20	mg/L		18-JUL-20	R5157854
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		21-JUL-20	R5160249
Alkalinity, Total (as CaCO3)	247		2.0	mg/L		18-JUL-20	R5157813
Ammonia, Total (as N)	0.754	DLHC	0.050	mg/L		27-JUL-20	R5166743
Bromide (Br)	<0.10		0.10	mg/L	17-JUL-20	21-JUL-20	R5160881
Chloride (Cl)	0.91		0.10	mg/L	17-JUL-20	21-JUL-20	R5160881
Fluoride (F)	0.158		0.020	mg/L	17-JUL-20	21-JUL-20	R5160881
Nitrate (as N)	<0.020		0.020	mg/L	17-JUL-20	21-JUL-20	R5160881
Nitrite (as N)	<0.010		0.010	mg/L	17-JUL-20	21-JUL-20	R5160881
Phosphorus (P)-Total	0.0232		0.0030	mg/L	20-JUL-20	20-JUL-20	R5159835
Silica, Reactive (as SiO2)	14.7		1.0	mg/L		22-JUL-20	R5161758
Sulfate (SO4)	6.34		0.30	mg/L	17-JUL-20	21-JUL-20	R5160881
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		21-JUL-20	R5159943
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				15-JUL-20	18-JUL-20	R5157706
Dissolved Organic Carbon	8.9	DLM	5.0	mg/L	15-JUL-20	22-JUL-20	R5165618

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-5 SP-GW-BL-321-D Sampled By: Client on 15-JUL-20 @ 16:30 Matrix: Ground Water							
Organic / Inorganic Carbon							
Total Metals							
Aluminum (Al)-Total	0.0558		0.0030	mg/L	18-JUL-20	20-JUL-20	R5159695
Antimony (Sb)-Total	0.00014		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Arsenic (As)-Total	0.00209		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Barium (Ba)-Total	0.125		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Boron (B)-Total	0.045		0.010	mg/L	18-JUL-20	20-JUL-20	R5159695
Cadmium (Cd)-Total	0.0000052		0.0000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Calcium (Ca)-Total	57.3		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cesium (Cs)-Total	0.000225		0.000010	mg/L	18-JUL-20	20-JUL-20	R5159695
Chromium (Cr)-Total	0.00021		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Cobalt (Co)-Total	0.00016		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Copper (Cu)-Total	<0.00050		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Iron (Fe)-Total	1.44		0.010	mg/L	18-JUL-20	20-JUL-20	R5159695
Lead (Pb)-Total	0.000062		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Lithium (Li)-Total	0.0034		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Magnesium (Mg)-Total	14.0		0.0050	mg/L	18-JUL-20	20-JUL-20	R5159695
Manganese (Mn)-Total	0.178		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Molybdenum (Mo)-Total	0.00293		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Phosphorus (P)-Total	<0.050		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Potassium (K)-Total	4.44		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Rubidium (Rb)-Total	0.00376		0.00020	mg/L	18-JUL-20	20-JUL-20	R5159695
Selenium (Se)-Total	0.000052		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Silicon (Si)-Total	7.40		0.10	mg/L	18-JUL-20	20-JUL-20	R5159695
Silver (Ag)-Total	0.000015		0.000010	mg/L	18-JUL-20	20-JUL-20	R5159695
Sodium (Na)-Total	19.5		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Strontium (Sr)-Total	0.676		0.00020	mg/L	18-JUL-20	20-JUL-20	R5159695
Sulfur (S)-Total	3.60		0.50	mg/L	18-JUL-20	20-JUL-20	R5159695
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	18-JUL-20	20-JUL-20	R5159695
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	18-JUL-20	20-JUL-20	R5159695
Thorium (Th)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Tin (Sn)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Titanium (Ti)-Total	0.00107		0.00030	mg/L	18-JUL-20	20-JUL-20	R5159695
Tungsten (W)-Total	0.00846		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Uranium (U)-Total	0.00129		0.000010	mg/L	18-JUL-20	20-JUL-20	R5159695
Vanadium (V)-Total	0.00076		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Zinc (Zn)-Total	0.0035		0.0030	mg/L	18-JUL-20	20-JUL-20	R5159695
Zirconium (Zr)-Total	0.00098		0.00020	mg/L	18-JUL-20	20-JUL-20	R5159695
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-5 SP-GW-BL-321-D Sampled By: Client on 15-JUL-20 @ 16:30 Matrix: Ground Water							
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-JUL-20	R5162836
Dissolved Metals Filtration Location	FIELD					21-JUL-20	R5160001
Aluminum (Al)-Dissolved	0.0042		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Arsenic (As)-Dissolved	0.00181		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Barium (Ba)-Dissolved	0.119		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Boron (B)-Dissolved	0.047		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Calcium (Ca)-Dissolved	52.7		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Cesium (Cs)-Dissolved	0.000204		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Chromium (Cr)-Dissolved	0.00015		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cobalt (Co)-Dissolved	0.00012		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Iron (Fe)-Dissolved	0.928		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Lithium (Li)-Dissolved	0.0035		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Magnesium (Mg)-Dissolved	13.2		0.0050	mg/L	21-JUL-20	21-JUL-20	R5162198
Manganese (Mn)-Dissolved	0.170		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-20	22-JUL-20	R5160386
Molybdenum (Mo)-Dissolved	0.00279		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Potassium (K)-Dissolved	4.31		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Rubidium (Rb)-Dissolved	0.00345		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silicon (Si)-Dissolved	7.05		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Sodium (Na)-Dissolved	18.6		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Strontium (Sr)-Dissolved	0.646		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Sulfur (S)-Dissolved	3.23		0.50	mg/L	21-JUL-20	21-JUL-20	R5162198
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-20	21-JUL-20	R5162198
Tungsten (W)-Dissolved	0.00781		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Uranium (U)-Dissolved	0.00121		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Vanadium (V)-Dissolved	0.00050		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Zinc (Zn)-Dissolved	0.0035		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-5 SP-GW-BL-321-D Sampled By: Client on 15-JUL-20 @ 16:30 Matrix: Ground Water							
Dissolved Metals							
Zirconium (Zr)-Dissolved	0.00096		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
L2475724-6 SP-GW-DUP-4 Sampled By: Client on 15-JUL-20 @ 00:01 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	505		1.0	uS/cm		18-JUL-20	R5157813
Hardness (as CaCO3)	244		0.50	mg/L		22-JUL-20	
pH	7.52		0.10	pH		18-JUL-20	R5157813
Total Suspended Solids	1300		7.5	mg/L		18-JUL-20	R5157847
Total Dissolved Solids	346		20	mg/L		18-JUL-20	R5157854
Anions and Nutrients							
Acidity (as CaCO3)	5.0		2.0	mg/L		21-JUL-20	R5160249
Alkalinity, Total (as CaCO3)	381		2.0	mg/L		18-JUL-20	R5157813
Ammonia, Total (as N)	0.373		0.010	mg/L		24-JUL-20	R5166743
Bromide (Br)	<0.10		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041
Chloride (Cl)	0.31		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041
Fluoride (F)	0.104		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrate (as N)	<0.020		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrite (as N)	<0.010		0.010	mg/L	17-JUL-20	18-JUL-20	R5158041
Phosphorus (P)-Total	0.527		0.030	mg/L	23-JUL-20	23-JUL-20	R5166267
Silica, Reactive (as SiO2)	12.9		1.0	mg/L		22-JUL-20	R5161758
Sulfate (SO4)	18.9		0.30	mg/L	17-JUL-20	18-JUL-20	R5158041
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		21-JUL-20	R5159943
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				15-JUL-20	18-JUL-20	R5157706
Dissolved Organic Carbon	14.9	DLM	5.0	mg/L	15-JUL-20	22-JUL-20	R5165618
Total Metals							
Aluminum (Al)-Total	28.4		0.015	mg/L	18-JUL-20	20-JUL-20	R5159695
Antimony (Sb)-Total	<0.00050	DLHC	0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Arsenic (As)-Total	0.00378		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Barium (Ba)-Total	0.348		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Beryllium (Be)-Total	0.00269		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Bismuth (Bi)-Total	0.00063		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Boron (B)-Total	<0.050	DLHC	0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cadmium (Cd)-Total	0.000342		0.000025	mg/L	18-JUL-20	20-JUL-20	R5159695
Calcium (Ca)-Total	179		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Cesium (Cs)-Total	0.00763		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Chromium (Cr)-Total	0.0548		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cobalt (Co)-Total	0.0260		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Copper (Cu)-Total	0.158		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Iron (Fe)-Total	30.6		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-6 SP-GW-DUP-4 Sampled By: Client on 15-JUL-20 @ 00:01 Matrix: Ground Water							
Total Metals							
Lead (Pb)-Total	0.0263		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Lithium (Li)-Total	0.0274		0.0050	mg/L	18-JUL-20	20-JUL-20	R5159695
Magnesium (Mg)-Total	31.8		0.025	mg/L	18-JUL-20	20-JUL-20	R5159695
Manganese (Mn)-Total	1.23		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Molybdenum (Mo)-Total	0.00143		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Nickel (Ni)-Total	0.0497		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Phosphorus (P)-Total	<0.25	DLHC	0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Potassium (K)-Total	11.6		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Rubidium (Rb)-Total	0.0599		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Selenium (Se)-Total	0.00067		0.00025	mg/L	18-JUL-20	20-JUL-20	R5159695
Silicon (Si)-Total	43.6		0.50	mg/L	18-JUL-20	20-JUL-20	R5159695
Silver (Ag)-Total	0.00471		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Sodium (Na)-Total	14.1		0.25	mg/L	18-JUL-20	20-JUL-20	R5159695
Strontium (Sr)-Total	1.39		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Sulfur (S)-Total	5.4		2.5	mg/L	18-JUL-20	20-JUL-20	R5159695
Tellurium (Te)-Total	0.0018		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Thallium (Tl)-Total	0.000819		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Thorium (Th)-Total	0.0244		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Tin (Sn)-Total	<0.00050	DLHC	0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Titanium (Ti)-Total	0.190		0.0015	mg/L	18-JUL-20	20-JUL-20	R5159695
Tungsten (W)-Total	0.00331		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Uranium (U)-Total	0.00810		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Vanadium (V)-Total	0.0716		0.0025	mg/L	18-JUL-20	20-JUL-20	R5159695
Zinc (Zn)-Total	0.128		0.015	mg/L	18-JUL-20	20-JUL-20	R5159695
Zirconium (Zr)-Total	0.0015		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-JUL-20	R5162836
Dissolved Metals Filtration Location	FIELD					21-JUL-20	R5160001
Aluminum (Al)-Dissolved	0.0080		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Arsenic (As)-Dissolved	0.00037		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Barium (Ba)-Dissolved	0.0860		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Boron (B)-Dissolved	0.028		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cadmium (Cd)-Dissolved	0.0000100		0.0000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Calcium (Ca)-Dissolved	77.0		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Cesium (Cs)-Dissolved	0.000071		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Chromium (Cr)-Dissolved	0.00029		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cobalt (Co)-Dissolved	0.00195		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Copper (Cu)-Dissolved	0.00213		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-6 SP-GW-DUP-4 Sampled By: Client on 15-JUL-20 @ 00:01 Matrix: Ground Water							
Dissolved Metals							
Iron (Fe)-Dissolved	0.396		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Lithium (Li)-Dissolved	0.0032		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Magnesium (Mg)-Dissolved	12.6		0.0050	mg/L	21-JUL-20	21-JUL-20	R5162198
Manganese (Mn)-Dissolved	0.173		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-20	22-JUL-20	R5160386
Molybdenum (Mo)-Dissolved	0.00184		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Nickel (Ni)-Dissolved	0.00078		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Potassium (K)-Dissolved	4.15		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Rubidium (Rb)-Dissolved	0.00495		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Selenium (Se)-Dissolved	0.000136		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silicon (Si)-Dissolved	6.29		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Sodium (Na)-Dissolved	11.2		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Strontium (Sr)-Dissolved	0.981		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Sulfur (S)-Dissolved	7.01		0.50	mg/L	21-JUL-20	21-JUL-20	R5162198
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Titanium (Ti)-Dissolved	0.00034		0.00030	mg/L	21-JUL-20	21-JUL-20	R5162198
Tungsten (W)-Dissolved	0.00262		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Uranium (U)-Dissolved	0.00165		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Vanadium (V)-Dissolved	0.00162		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Zinc (Zn)-Dissolved	0.0066		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Zirconium (Zr)-Dissolved	0.00050		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
L2475724-7 FIELD BLANK Sampled By: Client on 15-JUL-20 @ 00:01 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	1.8		1.0	uS/cm		18-JUL-20	R5157813
Hardness (as CaCO3)	<0.50		0.50	mg/L		22-JUL-20	
pH	5.64		0.10	pH		18-JUL-20	R5157813
Total Suspended Solids	<3.0		3.0	mg/L		18-JUL-20	R5157847
Total Dissolved Solids	<10		10	mg/L		18-JUL-20	R5157854
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		21-JUL-20	R5160249
Alkalinity, Total (as CaCO3)	<2.0		2.0	mg/L		18-JUL-20	R5157813
Ammonia, Total (as N)	0.206		0.010	mg/L		24-JUL-20	R5165338
Bromide (Br)	<0.10		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041
Chloride (Cl)	<0.10		0.10	mg/L	17-JUL-20	18-JUL-20	R5158041

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-7 FIELD BLANK Sampled By: Client on 15-JUL-20 @ 00:01 Matrix: Ground Water							
Anions and Nutrients							
Fluoride (F)	<0.020		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrate (as N)	0.024		0.020	mg/L	17-JUL-20	18-JUL-20	R5158041
Nitrite (as N)	<0.010		0.010	mg/L	17-JUL-20	18-JUL-20	R5158041
Phosphorus (P)-Total	<0.0030		0.0030	mg/L	20-JUL-20	20-JUL-20	R5159835
Silica, Reactive (as SiO2)	0.037		0.010	mg/L		22-JUL-20	R5162026
Sulfate (SO4)	<0.30		0.30	mg/L	17-JUL-20	18-JUL-20	R5158041
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		21-JUL-20	R5159943
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				15-JUL-20	18-JUL-20	R5157706
Dissolved Organic Carbon	<0.50		0.50	mg/L	15-JUL-20	22-JUL-20	R5165618
Total Metals							
Aluminum (Al)-Total	<0.0030		0.0030	mg/L	18-JUL-20	20-JUL-20	R5159695
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Arsenic (As)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Barium (Ba)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Boron (B)-Total	<0.010		0.010	mg/L	18-JUL-20	20-JUL-20	R5159695
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Calcium (Ca)-Total	<0.050		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	18-JUL-20	20-JUL-20	R5159695
Chromium (Cr)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Copper (Cu)-Total	<0.00050		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Iron (Fe)-Total	<0.010		0.010	mg/L	18-JUL-20	20-JUL-20	R5159695
Lead (Pb)-Total	<0.000050		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Lithium (Li)-Total	<0.0010		0.0010	mg/L	18-JUL-20	20-JUL-20	R5159695
Magnesium (Mg)-Total	<0.0050		0.0050	mg/L	18-JUL-20	20-JUL-20	R5159695
Manganese (Mn)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Molybdenum (Mo)-Total	<0.000050		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Phosphorus (P)-Total	<0.050		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Potassium (K)-Total	<0.050		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	18-JUL-20	20-JUL-20	R5159695
Selenium (Se)-Total	<0.000050		0.000050	mg/L	18-JUL-20	20-JUL-20	R5159695
Silicon (Si)-Total	<0.10		0.10	mg/L	18-JUL-20	20-JUL-20	R5159695
Silver (Ag)-Total	<0.000010		0.000010	mg/L	18-JUL-20	20-JUL-20	R5159695
Sodium (Na)-Total	<0.050		0.050	mg/L	18-JUL-20	20-JUL-20	R5159695
Strontium (Sr)-Total	<0.00020		0.00020	mg/L	18-JUL-20	20-JUL-20	R5159695
Sulfur (S)-Total	<0.50		0.50	mg/L	18-JUL-20	20-JUL-20	R5159695
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	18-JUL-20	20-JUL-20	R5159695

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-7 FIELD BLANK Sampled By: Client on 15-JUL-20 @ 00:01 Matrix: Ground Water							
Total Metals							
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	18-JUL-20	20-JUL-20	R5159695
Thorium (Th)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Tin (Sn)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	18-JUL-20	20-JUL-20	R5159695
Tungsten (W)-Total	<0.00010		0.00010	mg/L	18-JUL-20	20-JUL-20	R5159695
Uranium (U)-Total	<0.000010		0.000010	mg/L	18-JUL-20	20-JUL-20	R5159695
Vanadium (V)-Total	<0.00050		0.00050	mg/L	18-JUL-20	20-JUL-20	R5159695
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	18-JUL-20	20-JUL-20	R5159695
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	18-JUL-20	20-JUL-20	R5159695
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-JUL-20	R5162836
Dissolved Metals Filtration Location	FIELD					21-JUL-20	R5160001
Aluminum (Al)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Barium (Ba)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	21-JUL-20	21-JUL-20	R5162198
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Magnesium (Mg)-Dissolved	<0.0050		0.0050	mg/L	21-JUL-20	21-JUL-20	R5162198
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-20	22-JUL-20	R5160386
Molybdenum (Mo)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Potassium (K)-Dissolved	<0.050		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Sodium (Na)-Dissolved	<0.050		0.050	mg/L	21-JUL-20	21-JUL-20	R5162198
Strontium (Sr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2475724-7 FIELD BLANK Sampled By: Client on 15-JUL-20 @ 00:01 Matrix: Ground Water							
Dissolved Metals							
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-20	21-JUL-20	R5162198
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-20	21-JUL-20	R5162198
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-20	21-JUL-20	R5162198
Uranium (U)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-20	21-JUL-20	R5162198
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-20	21-JUL-20	R5162198
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-20	21-JUL-20	R5162198
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-20	21-JUL-20	R5162198

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Laboratory Control Sample	Iron (Fe)-Dissolved	MES	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Potassium (K)-Dissolved	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Tungsten (W)-Dissolved	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Calcium (Ca)-Total	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Manganese (Mn)-Total	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Sodium (Na)-Total	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Strontium (Sr)-Total	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Sulfur (S)-Total	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Zinc (Zn)-Total	MS-B	L2475724-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Ammonia, Total (as N)	MS-B	L2475724-1, -2, -3, -4, -5, -6
Matrix Spike	Phosphorus (P)-Total	MS-B	L2475724-1, -2
Matrix Spike	Silica, Reactive (as SiO2)	MS-B	L2475724-1, -2, -3, -4, -5, -6

Sample Parameter Qualifier key listed:

Qualifier	Description
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CN-TOT-WT	Water	Cyanide, Total	ISO 14403-2

Total cyanide is determined by the combination of UV digestion and distillation. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

When using this method, high levels of thiocyanate in samples can cause false positives at ~1-2% of the thiocyanate concentration. For samples with detectable cyanide analyzed by this method, ALS recommends analysis for thiocyanate to check for this potential interference

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Reference Information

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
HG-D-CVAA-VA	Water	Diss. Mercury in Water by CVAAS or CVAFS	APHA 3030B/EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-WT	Water	Ammonia in Water by Fluorescence	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

SIO2-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Reference Information

VA ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Contact: David Mchaina

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5160249								
WG3365106-3 DUP		**L2475724-2**						
Acidity (as CaCO3)		15.6	13.7		mg/L	13	20	21-JUL-20
WG3365106-2 LCS								
Acidity (as CaCO3)			99.3		%		85-115	21-JUL-20
WG3365106-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	21-JUL-20
ALK-TITR-TB	Water							
Batch R5157813								
WG3365097-3 DUP		**L2475724-1**						
Alkalinity, Total (as CaCO3)		452	471		mg/L	4.1	20	18-JUL-20
WG3365097-2 LCS								
Alkalinity, Total (as CaCO3)			101.8		%		85-115	18-JUL-20
WG3365174-2 LCS								
Alkalinity, Total (as CaCO3)			104.4		%		85-115	18-JUL-20
WG3365097-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	18-JUL-20
WG3365174-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	18-JUL-20
BR-IC-N-TB	Water							
Batch R5158041								
WG3365125-3 DUP		**L2475724-1**						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	18-JUL-20
WG3365125-2 LCS								
Bromide (Br)			107.5		%		85-115	18-JUL-20
WG3365125-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	18-JUL-20
Batch R5160881								
WG3365176-2 LCS								
Bromide (Br)			95.1		%		85-115	21-JUL-20
WG3365176-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	21-JUL-20
CL-L-IC-N-TB	Water							
Batch R5158041								
WG3365125-3 DUP		**L2475724-1**						
Chloride (Cl)		0.15	0.11	J	mg/L	0.04	0.2	18-JUL-20
WG3365125-2 LCS								
Chloride (Cl)			104.7		%		90-110	18-JUL-20
WG3365125-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB	Water							
Batch R5158041								
WG3365125-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	18-JUL-20
Batch R5160881								
WG3365176-2 LCS								
Chloride (Cl)			99.2		%		90-110	21-JUL-20
WG3365176-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	21-JUL-20
CN-TOT-WT	Water							
Batch R5159943								
WG3367264-11 DUP		**L2475724-4**						
Cyanide, Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	21-JUL-20
WG3367264-10 LCS								
Cyanide, Total			91.9		%		80-120	21-JUL-20
WG3367264-6 LCS								
Cyanide, Total			93.0		%		80-120	21-JUL-20
WG3367264-5 MB								
Cyanide, Total			<0.0020		mg/L		0.002	21-JUL-20
WG3367264-9 MB								
Cyanide, Total			<0.0020		mg/L		0.002	21-JUL-20
WG3367264-12 MS		**L2475724-4**						
Cyanide, Total			87.1		%		70-130	21-JUL-20
DOC-WT	Water							
Batch R5165618								
WG3365488-2 LCS								
Dissolved Organic Carbon			101.8		%		80-120	22-JUL-20
WG3365488-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	22-JUL-20
EC-TITR-TB	Water							
Batch R5157813								
WG3365097-3 DUP		**L2475724-1**						
Conductivity (EC)		543	544		uS/cm	0.2	10	18-JUL-20
WG3365097-2 LCS								
Conductivity (EC)			102.2		%		90-110	18-JUL-20
WG3365174-2 LCS								
Conductivity (EC)			101.3		%		90-110	18-JUL-20
WG3365097-1 MB								
Conductivity (EC)			1.8		uS/cm		2	18-JUL-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-TITR-TB	Water							
Batch R5157813								
WG3365174-1 MB								
Conductivity (EC)			1.2		uS/cm		2	18-JUL-20
F-IC-N-TB	Water							
Batch R5158041								
WG3365125-3 DUP		**L2475724-1**						
Fluoride (F)		0.071	0.071		mg/L	0.5	20	18-JUL-20
WG3365125-2 LCS								
Fluoride (F)			107.8		%		90-110	18-JUL-20
WG3365125-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	18-JUL-20
Batch R5160881								
WG3365176-2 LCS								
Fluoride (F)			101.6		%		90-110	21-JUL-20
WG3365176-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	21-JUL-20
HG-D-CVAA-VA	Water							
Batch R5160386								
WG3368371-2 LCS								
Mercury (Hg)-Dissolved			100.3		%		80-120	22-JUL-20
WG3368371-1 MB		**NP**						
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	22-JUL-20
MET-D-CCMS-TB	Water							
Batch R5162198								
WG3367107-2 LCS								
Aluminum (Al)-Dissolved			104.9		%		80-120	21-JUL-20
Antimony (Sb)-Dissolved			102.5		%		80-120	21-JUL-20
Arsenic (As)-Dissolved			102.1		%		80-120	21-JUL-20
Barium (Ba)-Dissolved			100.7		%		80-120	21-JUL-20
Beryllium (Be)-Dissolved			99.3		%		80-120	21-JUL-20
Bismuth (Bi)-Dissolved			106.3		%		80-120	21-JUL-20
Boron (B)-Dissolved			99.9		%		80-120	21-JUL-20
Cadmium (Cd)-Dissolved			98.6		%		80-120	21-JUL-20
Calcium (Ca)-Dissolved			102.0		%		80-120	21-JUL-20
Cesium (Cs)-Dissolved			101.9		%		80-120	21-JUL-20
Chromium (Cr)-Dissolved			100.9		%		80-120	21-JUL-20
Cobalt (Co)-Dissolved			99.4		%		80-120	21-JUL-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5162198								
WG3367107-2 LCS								
Copper (Cu)-Dissolved			98.7		%		80-120	21-JUL-20
Iron (Fe)-Dissolved			123.3	MES	%		80-120	21-JUL-20
Lead (Pb)-Dissolved			102.9		%		80-120	21-JUL-20
Lithium (Li)-Dissolved			99.4		%		80-120	21-JUL-20
Magnesium (Mg)-Dissolved			103.1		%		80-120	21-JUL-20
Manganese (Mn)-Dissolved			104.0		%		80-120	21-JUL-20
Molybdenum (Mo)-Dissolved			101.4		%		80-120	21-JUL-20
Nickel (Ni)-Dissolved			101.2		%		80-120	21-JUL-20
Phosphorus (P)-Dissolved			103.3		%		80-120	21-JUL-20
Potassium (K)-Dissolved			102.3		%		80-120	21-JUL-20
Rubidium (Rb)-Dissolved			100.4		%		80-120	21-JUL-20
Selenium (Se)-Dissolved			104.7		%		80-120	21-JUL-20
Silicon (Si)-Dissolved			98.6		%		80-120	21-JUL-20
Silver (Ag)-Dissolved			104.6		%		80-120	21-JUL-20
Sodium (Na)-Dissolved			97.9		%		80-120	21-JUL-20
Strontium (Sr)-Dissolved			102.5		%		80-120	21-JUL-20
Sulfur (S)-Dissolved			96.1		%		80-120	21-JUL-20
Tellurium (Te)-Dissolved			100.1		%		80-120	21-JUL-20
Thallium (Tl)-Dissolved			102.0		%		80-120	21-JUL-20
Thorium (Th)-Dissolved			102.1		%		80-120	21-JUL-20
Tin (Sn)-Dissolved			102.3		%		80-120	21-JUL-20
Titanium (Ti)-Dissolved			99.4		%		80-120	21-JUL-20
Tungsten (W)-Dissolved			102.9		%		80-120	21-JUL-20
Uranium (U)-Dissolved			96.5		%		80-120	21-JUL-20
Vanadium (V)-Dissolved			102.8		%		80-120	21-JUL-20
Zinc (Zn)-Dissolved			105.4		%		80-120	21-JUL-20
Zirconium (Zr)-Dissolved			102.1		%		80-120	21-JUL-20
WG3367107-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	21-JUL-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5162198								
WG3367107-1 MB								
Boron (B)-Dissolved			<0.010		mg/L		0.01	21-JUL-20
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	21-JUL-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	21-JUL-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	21-JUL-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	21-JUL-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	21-JUL-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	21-JUL-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	21-JUL-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	21-JUL-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	21-JUL-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	21-JUL-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	21-JUL-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	21-JUL-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	21-JUL-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	21-JUL-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-20
MET-T-CCMS-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5159695								
WG3364792-6 LCS								
Aluminum (Al)-Total			109.2		%		80-120	20-JUL-20
Antimony (Sb)-Total			109.7		%		80-120	20-JUL-20
Arsenic (As)-Total			105.3		%		80-120	20-JUL-20
Barium (Ba)-Total			102.2		%		80-120	20-JUL-20
Beryllium (Be)-Total			107.4		%		80-120	20-JUL-20
Bismuth (Bi)-Total			111.5		%		80-120	20-JUL-20
Boron (B)-Total			98.9		%		80-120	20-JUL-20
Cadmium (Cd)-Total			104.1		%		80-120	20-JUL-20
Calcium (Ca)-Total			105.7		%		80-120	20-JUL-20
Cesium (Cs)-Total			102.9		%		80-120	20-JUL-20
Chromium (Cr)-Total			106.1		%		80-120	20-JUL-20
Cobalt (Co)-Total			102.8		%		80-120	20-JUL-20
Copper (Cu)-Total			103.6		%		80-120	20-JUL-20
Iron (Fe)-Total			111.7		%		80-120	20-JUL-20
Lead (Pb)-Total			107.4		%		80-120	20-JUL-20
Lithium (Li)-Total			101.7		%		80-120	20-JUL-20
Magnesium (Mg)-Total			112.9		%		80-120	20-JUL-20
Manganese (Mn)-Total			106.1		%		80-120	20-JUL-20
Molybdenum (Mo)-Total			102.7		%		80-120	20-JUL-20
Nickel (Ni)-Total			102.5		%		80-120	20-JUL-20
Phosphorus (P)-Total			95.8		%		80-120	20-JUL-20
Potassium (K)-Total			113.6		%		80-120	20-JUL-20
Rubidium (Rb)-Total			106.6		%		80-120	20-JUL-20
Selenium (Se)-Total			101.8		%		80-120	20-JUL-20
Silicon (Si)-Total			112.0		%		80-120	20-JUL-20
Silver (Ag)-Total			102.6		%		80-120	20-JUL-20
Sodium (Na)-Total			105.2		%		80-120	20-JUL-20
Strontium (Sr)-Total			101.4		%		80-120	20-JUL-20
Sulfur (S)-Total			105.8		%		80-120	20-JUL-20
Tellurium (Te)-Total			111.8		%		80-120	20-JUL-20
Thallium (Tl)-Total			107.9		%		80-120	20-JUL-20
Thorium (Th)-Total			102.7		%		80-120	20-JUL-20
Tin (Sn)-Total			104.1		%		80-120	20-JUL-20
Titanium (Ti)-Total			103.4		%		80-120	20-JUL-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5159695								
WG3364792-6 LCS								
Tungsten (W)-Total			109.1		%		80-120	20-JUL-20
Uranium (U)-Total			101.6		%		80-120	20-JUL-20
Vanadium (V)-Total			105.6		%		80-120	20-JUL-20
Zinc (Zn)-Total			98.8		%		80-120	20-JUL-20
Zirconium (Zr)-Total			102.0		%		80-120	20-JUL-20
WG3364792-5 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	20-JUL-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	20-JUL-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	20-JUL-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	20-JUL-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	20-JUL-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	20-JUL-20
Boron (B)-Total			<0.010		mg/L		0.01	20-JUL-20
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	20-JUL-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	20-JUL-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	20-JUL-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	20-JUL-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	20-JUL-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	20-JUL-20
Iron (Fe)-Total			<0.010		mg/L		0.01	20-JUL-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	20-JUL-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	20-JUL-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	20-JUL-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	20-JUL-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	20-JUL-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	20-JUL-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	20-JUL-20
Potassium (K)-Total			<0.050		mg/L		0.05	20-JUL-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	20-JUL-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	20-JUL-20
Silicon (Si)-Total			<0.10		mg/L		0.1	20-JUL-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	20-JUL-20
Sodium (Na)-Total			<0.050		mg/L		0.05	20-JUL-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	20-JUL-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5159695								
WG3364792-5 MB								
Sulfur (S)-Total			<0.50		mg/L		0.5	20-JUL-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	20-JUL-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	20-JUL-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	20-JUL-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	20-JUL-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	20-JUL-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	20-JUL-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	20-JUL-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	20-JUL-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	20-JUL-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	20-JUL-20
NH3-F-WT	Water							
Batch R5165338								
WG3365861-2 LCS								
Ammonia, Total (as N)			98.8		%		85-115	24-JUL-20
WG3365861-1 MB								
Ammonia, Total (as N)			<0.010		mg/L		0.01	24-JUL-20
Batch R5166743								
WG3365862-2 LCS								
Ammonia, Total (as N)			101.2		%		85-115	24-JUL-20
WG3365862-1 MB								
Ammonia, Total (as N)			<0.010		mg/L		0.01	24-JUL-20
NO2-IC-N-TB	Water							
Batch R5158041								
WG3365125-3 DUP		**L2475724-1**						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	20	18-JUL-20
WG3365125-2 LCS								
Nitrite (as N)			106.1		%		90-110	18-JUL-20
WG3365125-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	18-JUL-20
Batch R5160881								
WG3365176-2 LCS								
Nitrite (as N)			106.1		%		90-110	21-JUL-20
WG3365176-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	21-JUL-20
NO3-IC-N-TB	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-N-TB	Water							
Batch R5158041								
WG3365125-3 DUP		**L2475724-1**						
Nitrate (as N)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	18-JUL-20
WG3365125-2 LCS								
Nitrate (as N)			105.5		%		90-110	18-JUL-20
WG3365125-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	18-JUL-20
Batch R5160881								
WG3365176-2 LCS								
Nitrate (as N)			101.6		%		90-110	21-JUL-20
WG3365176-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	21-JUL-20
P-T-COL-TB	Water							
Batch R5159835								
WG3365367-2 LCS								
Phosphorus (P)-Total			108.9		%		80-120	20-JUL-20
WG3365367-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	20-JUL-20
Batch R5165202								
WG3366902-2 LCS								
Phosphorus (P)-Total			105.7		%		80-120	23-JUL-20
WG3366902-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	23-JUL-20
Batch R5166267								
WG3367764-2 LCS								
Phosphorus (P)-Total			104.5		%		80-120	23-JUL-20
WG3367764-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	23-JUL-20
PH-TITR-TB	Water							
Batch R5157813								
WG3365097-3 DUP		**L2475724-1**						
pH		7.74	7.65	J	pH	0.09	0.2	18-JUL-20
WG3365097-2 LCS								
pH			7.01		pH		6.9-7.1	18-JUL-20
WG3365174-2 LCS								
pH			6.97		pH		6.9-7.1	18-JUL-20
SIO2-COL-WP	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SIO2-COL-WP	Water							
Batch R5161758								
WG3368041-3 DUP		**L2475724-1**						
Silica, Reactive (as SiO2)		16.1	16.2		mg/L	0.6	20	22-JUL-20
WG3368041-2 LCS								
Silica, Reactive (as SiO2)			101.5		%		85-115	22-JUL-20
WG3368041-1 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	22-JUL-20
WG3368041-4 MS		**L2475724-2**						
Silica, Reactive (as SiO2)			N/A	MS-B	%		-	22-JUL-20
SIO2-L-COL-WP	Water							
Batch R5162026								
WG3368150-3 DUP		**L2475724-7**						
Silica, Reactive (as SiO2)		0.037	0.041		mg/L	9.5	20	22-JUL-20
WG3368150-2 LCS								
Silica, Reactive (as SiO2)			106.5		%		85-115	22-JUL-20
WG3368150-1 MB								
Silica, Reactive (as SiO2)			<0.010		mg/L		0.01	22-JUL-20
WG3368150-4 MS		**L2475724-7**						
Silica, Reactive (as SiO2)			104.6		%		75-125	22-JUL-20
SO4-IC-N-TB	Water							
Batch R5158041								
WG3365125-3 DUP		**L2475724-1**						
Sulfate (SO4)		5.87	5.92		mg/L	0.8	20	18-JUL-20
WG3365125-2 LCS								
Sulfate (SO4)			106.0		%		90-110	18-JUL-20
WG3365125-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	18-JUL-20
Batch R5160881								
WG3365176-2 LCS								
Sulfate (SO4)			99.9		%		90-110	21-JUL-20
WG3365176-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	21-JUL-20
TDS-TB	Water							
Batch R5157854								
WG3365334-3 DUP		**L2475724-6**						
Total Dissolved Solids		346	335		mg/L	3.1	20	18-JUL-20
WG3365334-2 LCS								
Total Dissolved Solids			101.3		%		85-115	18-JUL-20
WG3365334-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-TB	Water							
Batch R5157854								
WG3365334-1 MB								
Total Dissolved Solids			<10		mg/L		10	18-JUL-20
TSS-TB	Water							
Batch R5157847								
WG3365338-3 DUP		**L2475724-6**						
Total Suspended Solids		1300	1330		mg/L	2.0	20	18-JUL-20
WG3365338-2 LCS								
Total Suspended Solids			101.7		%		85-115	18-JUL-20
WG3365338-1 MB								
Total Suspended Solids			<3.0		mg/L		3	18-JUL-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

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L2475724-COFC

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Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

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Email 1 or Fax: accountspayable@firstmininggold.com
Email 2: dmchaina@firstmininggold.com

Oil and Gas Required Fields (client use)

AFE/Cost Center: | PO#:
Major/Minor Code: | Routing Code:
Requisitioner:
Location:

Project Information

ALS Account # / Quote #: 20864 / Q64154
Job #: Springpole GW
PO / AFE:
LSD: First Mining Gold Project

ALS Lab Work Order # (lab use only): L2475724

ALS Contact: | Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days):
- 4 day [P4-20%] ☐
- 3 day [P3-25%] ☐
- 2 day [P2-50%] ☐

EMERGENCY:
- 1 Business day [E - 100%] ☐
- Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

NUMBER OF CONTAINERS

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity	Dissolved Metals Total Metal	Dissolved Mercury	DOC, F, Hardness, NO2,NO3, pH, SO4	TDS	Total Cyanide	Total Phosphorus, TSS	Reactive Silica	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	SP - GW - MW2	14 Jul 20	10:22	Ground Water	x	x	x	x	x	x	x	x		
	SP - GW - MW3	14 Jul 20	13:33	Ground Water	x	x	x	x	x	x	x	x		
	SP - GW - MW4	14 Jul 20	16:04	Ground Water	x	x	x	x	x	x	x	x		
	SP - GW - BL-334-1D	15 Jul 20	12:00	Ground Water	x	x	x	x	x	x	x	x		
	SP - GW - BL-331-1D	15 Jul 20	16:30	Ground Water	x	x	x	x	x	x	x	x		
	SP - GW - DUP-4	14 Jul 20	—	Ground Water	x	x	x	x	x	x	x	x		
				Ground Water	x	x	x	x	x	x	x			
				Ground Water	x	x	x	x	x	x	x			
				Ground Water	x	x	x	x	x	x	x			
				Ground Water	x	x	x	x	x	x	x			
				Ground Water	x	x	x	x	x	x	x			
				Ground Water	x	x	x	x	x	x	x			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐
Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐
Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
9.4							

SHIPMENT RELEASE (client use)

Released by: | Date: Jul/14/20 | Time: 8:30

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: | Date: 2020 07 17 | Time: 9:50

FINAL SHIPMENT RECEPTION (lab use only)

Received by: | Date: | Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2019 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Client: Gold Canyon

L2475724-COFC

Sample Layout Verification:	Verified By: Y	Date: 2020 07 17	Time: NA	Enter information on back page
Labels Verification:	Verified By: Y			Do any samples require prep? NO P F/P

		Sample #:															
1L	Plastic																
500mL	Plastic																
250mL	Plastic																
145mL	Plastic																
60mL	Plastic																
Micro																	
Toxicity Pail																	
1L	Glass																
500mL	Glass																
250mL	Glass																
120mL	Glass																
60mL	Glass																
40mL	Vial (Glass)																
40mL	Methanol Vials																
Soil Jar (120, 250 or 500mL)																	
Other:																	
Other:																	
Total Number of Bottles																	

Trip/Travel/Field Blank Information			
Solids Batch#:	Metals Batch#:	T:	D:
Routine Batch#:	Mercury Batch#:	T:	D:
BOD Batch#:	Cyanide Batch#:	T:	D:
Nutrients Batch#:	OGG Batch#:		
DOC/Carbon Batch#:	Phenols Batch#:		
VOC Batch#:			
Other:			

COOLER TRACKING			
EPP		Coleman	
Small		Micro (5QT)	
Med		Sm(9QT)	
Lrg		Med(16QT)	
Micro Box		Lrg(28QT)	
		Lrg(48QT)	

Gold Canyon Resources Inc.
ATTN: David Mchaina
c/ o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 24-SEP-20
Report Date: 31-OCT-20 17:16 (MT)
Version: FINAL

Client Phone: 705-929-5245

Certificate of Analysis

Lab Work Order #: L2507837

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE GW
C of C Numbers:
Legal Site Desc: First Mining Gold Project

Christine Paradis
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507837-1 SP-GW-BL-143-D Sampled By: SG on 16-SEP-20 @ 11:14 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	290		1.0	uS/cm		26-SEP-20	R5238816
Hardness (as CaCO3)	119		0.50	mg/L		01-OCT-20	
pH	8.01		0.10	pH		26-SEP-20	R5238816
Total Suspended Solids	<3.0		3.0	mg/L		29-SEP-20	R5242422
Total Dissolved Solids	177		20	mg/L		29-SEP-20	R5242611
Anions and Nutrients							
Acidity (as CaCO3)	2.0		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	147		2.0	mg/L		26-SEP-20	R5238816
Ammonia, Total (as N)	0.371		0.0050	mg/L	27-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	26-SEP-20	28-SEP-20	R5241636
Chloride (Cl)	0.85		0.10	mg/L	26-SEP-20	28-SEP-20	R5241636
Fluoride (F)	0.099		0.020	mg/L	26-SEP-20	28-SEP-20	R5241636
Nitrate (as N)	0.031		0.020	mg/L	26-SEP-20	28-SEP-20	R5241636
Nitrite (as N)	<0.010		0.010	mg/L	26-SEP-20	28-SEP-20	R5241636
Phosphorus (P)-Total	0.0058		0.0030	mg/L	30-SEP-20	01-OCT-20	R5243943
Silica, Reactive (as SiO2)	7.8		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	24.7		0.30	mg/L	26-SEP-20	28-SEP-20	R5241636
Cyanides							
Cyanide, Total	<0.020	DLM	0.020	mg/L		30-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				16-SEP-20	29-SEP-20	R5242174
Dissolved Organic Carbon	8.5	DLM	5.0	mg/L	16-SEP-20	02-OCT-20	R5245089
Total Metals							
Aluminum (Al)-Total	0.0093		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Antimony (Sb)-Total	0.00051		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Arsenic (As)-Total	0.00157		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Barium (Ba)-Total	0.124		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Beryllium (Be)-Total	0.00053		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Boron (B)-Total	0.022		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cadmium (Cd)-Total	0.0000072		0.0000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Calcium (Ca)-Total	34.8		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Cesium (Cs)-Total	0.000412		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Chromium (Cr)-Total	0.00017		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Copper (Cu)-Total	0.00942		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Iron (Fe)-Total	2.27		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Lead (Pb)-Total	0.000137		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Lithium (Li)-Total	0.0029		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Magnesium (Mg)-Total	7.58		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Manganese (Mn)-Total	0.159		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Molybdenum (Mo)-Total	0.00467		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507837-1 SP-GW-BL-143-D Sampled By: SG on 16-SEP-20 @ 11:14 Matrix: Groundwater							
Total Metals							
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Potassium (K)-Total	1.90		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Rubidium (Rb)-Total	0.00200		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Selenium (Se)-Total	0.000057		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Silicon (Si)-Total	3.94		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Silver (Ag)-Total	<0.000010		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Sodium (Na)-Total	12.8		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Strontium (Sr)-Total	0.316		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Sulfur (S)-Total	8.19		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Tin (Sn)-Total	0.00023		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Titanium (Ti)-Total	0.00038		0.00030	mg/L	26-SEP-20	29-SEP-20	R5242420
Tungsten (W)-Total	0.00116		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Uranium (U)-Total	0.000366		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Vanadium (V)-Total	<0.00050		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Zinc (Zn)-Total	0.0393		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Zirconium (Zr)-Total	0.00045		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0024		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00140		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.132		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	0.00049		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	0.022		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	35.1		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000409		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00085	DTC	0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00061		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	2.16		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0033		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	7.50		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.157		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507837-1 SP-GW-BL-143-D Sampled By: SG on 16-SEP-20 @ 11:14 Matrix: Groundwater							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.00484		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00060		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	1.88		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00189		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000186	DTSE	0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	3.71		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	12.0		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.310		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	8.17		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.00108		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000333		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	0.0027		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00050		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
L2507837-2 SP-GW-SP11-064 Sampled By: SG on 16-SEP-20 @ 14:35 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	364		1.0	uS/cm		26-SEP-20	R5238816
Hardness (as CaCO3)	175		0.50	mg/L		29-SEP-20	
pH	7.50		0.10	pH		26-SEP-20	R5238816
Total Suspended Solids	<3.0		3.0	mg/L		28-SEP-20	R5241678
Total Dissolved Solids	223		20	mg/L		28-SEP-20	R5241719
Anions and Nutrients							
Acidity (as CaCO3)	9.5		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	193		2.0	mg/L		26-SEP-20	R5238816
Ammonia, Total (as N)	<0.0050		0.0050	mg/L	26-SEP-20	28-SEP-20	R5241196
Bromide (Br)	<0.10		0.10	mg/L	26-SEP-20	28-SEP-20	R5241636
Chloride (Cl)	0.29		0.10	mg/L	26-SEP-20	28-SEP-20	R5241636
Fluoride (F)	0.032		0.020	mg/L	26-SEP-20	28-SEP-20	R5241636
Nitrate (as N)	0.373		0.020	mg/L	26-SEP-20	28-SEP-20	R5241636
Nitrite (as N)	<0.010		0.010	mg/L	26-SEP-20	28-SEP-20	R5241636
Phosphorus (P)-Total	<0.0030		0.0030	mg/L	29-SEP-20	30-SEP-20	R5242822
Silica, Reactive (as SiO2)	12.2		1.0	mg/L		05-OCT-20	R5245202

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507837-2 SP-GW-SP11-064 Sampled By: SG on 16-SEP-20 @ 14:35 Matrix: Groundwater							
Anions and Nutrients							
Sulfate (SO4)	19.3		0.30	mg/L	26-SEP-20	28-SEP-20	R5241636
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				16-SEP-20	29-SEP-20	R5242174
Dissolved Organic Carbon	7.9	DLM	5.0	mg/L	16-SEP-20	02-OCT-20	R5245089
Total Metals							
Aluminum (Al)-Total	0.0163		0.0030	mg/L	25-SEP-20	26-SEP-20	R5241304
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Arsenic (As)-Total	0.00026		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Barium (Ba)-Total	0.0154		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Boron (B)-Total	<0.010		0.010	mg/L	25-SEP-20	26-SEP-20	R5241304
Cadmium (Cd)-Total	0.0000422		0.0000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Calcium (Ca)-Total	68.1		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Cesium (Cs)-Total	0.000081		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Chromium (Cr)-Total	0.00023		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Cobalt (Co)-Total	0.00011		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Copper (Cu)-Total	0.00612		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Iron (Fe)-Total	0.157		0.010	mg/L	25-SEP-20	26-SEP-20	R5241304
Lead (Pb)-Total	0.000168		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Lithium (Li)-Total	0.0010		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Magnesium (Mg)-Total	1.96		0.0050	mg/L	25-SEP-20	26-SEP-20	R5241304
Manganese (Mn)-Total	0.0104		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Molybdenum (Mo)-Total	0.000455		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Nickel (Ni)-Total	0.00058		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Phosphorus (P)-Total	<0.050		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Potassium (K)-Total	0.293		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Rubidium (Rb)-Total	0.00089		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Selenium (Se)-Total	0.000153		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Silicon (Si)-Total	5.43		0.10	mg/L	25-SEP-20	26-SEP-20	R5241304
Silver (Ag)-Total	<0.000010		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Sodium (Na)-Total	1.53		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Strontium (Sr)-Total	0.115		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Sulfur (S)-Total	6.33		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Tin (Sn)-Total	<0.00010		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Titanium (Ti)-Total	<0.00069	DLM	0.00069	mg/L	25-SEP-20	26-SEP-20	R5241304
Tungsten (W)-Total	<0.00010		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507837-2 SP-GW-SP11-064 Sampled By: SG on 16-SEP-20 @ 14:35 Matrix: Groundwater							
Total Metals							
Uranium (U)-Total	0.000152		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Vanadium (V)-Total	<0.00050		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Zinc (Zn)-Total	0.0040		0.0030	mg/L	25-SEP-20	26-SEP-20	R5241304
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0055		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00018		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0168		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	0.0000363		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	66.8		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000084		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00014		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00559		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.032		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	0.000058		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	2.00		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.00694		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	0.0000061		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.000457		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00051		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	0.302		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00094		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000171		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	5.53		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	1.52		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.114		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	6.68		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507837-2 SP-GW-SP11-064 Sampled By: SG on 16-SEP-20 @ 14:35 Matrix: Groundwater							
Dissolved Metals							
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000142		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	0.0035		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		21-OCT-20	R5268726
L2507837-3 SP-GW-BL-385 Sampled By: SG on 16-SEP-20 @ 11:39 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	495		1.0	uS/cm		26-SEP-20	R5238816
Hardness (as CaCO3)	242		0.50	mg/L		29-SEP-20	
pH	7.72		0.10	pH		26-SEP-20	R5238816
Total Suspended Solids	5.8		3.0	mg/L		28-SEP-20	R5241678
Total Dissolved Solids	299		20	mg/L		28-SEP-20	R5241719
Anions and Nutrients							
Acidity (as CaCO3)	5.7		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	264		2.0	mg/L		26-SEP-20	R5238816
Ammonia, Total (as N)	0.0192		0.0050	mg/L	26-SEP-20	28-SEP-20	R5241196
Bromide (Br)	0.28		0.10	mg/L	26-SEP-20	28-SEP-20	R5241636
Chloride (Cl)	17.0		0.10	mg/L	26-SEP-20	28-SEP-20	R5241636
Fluoride (F)	0.033		0.020	mg/L	26-SEP-20	28-SEP-20	R5241636
Nitrate (as N)	0.051		0.020	mg/L	26-SEP-20	28-SEP-20	R5241636
Nitrite (as N)	<0.010		0.010	mg/L	26-SEP-20	28-SEP-20	R5241636
Phosphorus (P)-Total	0.0155		0.0030	mg/L	29-SEP-20	30-SEP-20	R5242822
Silica, Reactive (as SiO2)	11.5		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	18.4		0.30	mg/L	26-SEP-20	28-SEP-20	R5241636
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				16-SEP-20	29-SEP-20	R5242174
Dissolved Organic Carbon	6.0	DLM	5.0	mg/L	16-SEP-20	02-OCT-20	R5245089
Total Metals							
Aluminum (Al)-Total	0.165		0.0030	mg/L	25-SEP-20	26-SEP-20	R5241304
Antimony (Sb)-Total	0.00337		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Arsenic (As)-Total	0.0130		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Barium (Ba)-Total	0.102		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Boron (B)-Total	0.010		0.010	mg/L	25-SEP-20	26-SEP-20	R5241304

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507837-3 SP-GW-BL-385 Sampled By: SG on 16-SEP-20 @ 11:39 Matrix: Groundwater							
Total Metals							
Cadmium (Cd)-Total	0.0000051		0.0000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Calcium (Ca)-Total	76.9		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Cesium (Cs)-Total	0.000159		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Chromium (Cr)-Total	0.00140		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Cobalt (Co)-Total	0.00080		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Copper (Cu)-Total	0.00186		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Iron (Fe)-Total	3.92		0.010	mg/L	25-SEP-20	26-SEP-20	R5241304
Lead (Pb)-Total	0.000176		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Lithium (Li)-Total	0.0018		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Magnesium (Mg)-Total	14.3		0.0050	mg/L	25-SEP-20	26-SEP-20	R5241304
Manganese (Mn)-Total	0.124		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Molybdenum (Mo)-Total	0.00337		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Nickel (Ni)-Total	0.00249		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Phosphorus (P)-Total	<0.050		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Potassium (K)-Total	0.850		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Rubidium (Rb)-Total	0.00151		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Selenium (Se)-Total	0.000237		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Silicon (Si)-Total	5.93		0.10	mg/L	25-SEP-20	26-SEP-20	R5241304
Silver (Ag)-Total	0.000013		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Sodium (Na)-Total	4.04		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Strontium (Sr)-Total	0.459		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Sulfur (S)-Total	6.10		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Thallium (Tl)-Total	0.000011		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Tin (Sn)-Total	<0.00010		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Titanium (Ti)-Total	0.00355		0.00030	mg/L	25-SEP-20	26-SEP-20	R5241304
Tungsten (W)-Total	0.00080		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Uranium (U)-Total	0.000219		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Vanadium (V)-Total	0.00080		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Zinc (Zn)-Total	0.0036		0.0030	mg/L	25-SEP-20	26-SEP-20	R5241304
Zirconium (Zr)-Total	0.00117		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Dissolved Metals							
Dissolved Mercury Filtration Location	LAB					02-OCT-20	R5243897
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0090		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	0.00161		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00138		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0953		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507837-3 SP-GW-BL-385 Sampled By: SG on 16-SEP-20 @ 11:39 Matrix: Groundwater							
Dissolved Metals							
Boron (B)-Dissolved	0.012		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	74.0		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000132		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00018		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00065		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00096		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.172		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0017		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	14.0		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.126		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-OCT-20	02-OCT-20	R5244035
Molybdenum (Mo)-Dissolved	0.00403		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00205		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	0.854		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00143		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000132		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	5.44		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	3.71		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.492		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	6.27		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.00045		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000223		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00039		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Radiological Parameters							
Ra-226	0.021		0.010	Bq/L		21-OCT-20	R5268726
L2507837-4 SP-GW-BL-235 Sampled By: SG on 16-SEP-20 @ 10:00 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	497		1.0	uS/cm		26-SEP-20	R5238816
Hardness (as CaCO3)	251		0.50	mg/L		29-SEP-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507837-4 SP-GW-BL-235 Sampled By: SG on 16-SEP-20 @ 10:00 Matrix: Groundwater							
Physical Tests							
pH	7.69		0.10	pH		26-SEP-20	R5238816
Total Suspended Solids	<3.0		3.0	mg/L		28-SEP-20	R5241678
Total Dissolved Solids	319		20	mg/L		28-SEP-20	R5241719
Anions and Nutrients							
Acidity (as CaCO3)	5.7		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	283		2.0	mg/L		26-SEP-20	R5238816
Ammonia, Total (as N)	0.330		0.0050	mg/L	26-SEP-20	28-SEP-20	R5241196
Bromide (Br)	<0.10		0.10	mg/L	26-SEP-20	28-SEP-20	R5241636
Chloride (Cl)	0.20		0.10	mg/L	26-SEP-20	28-SEP-20	R5241636
Fluoride (F)	0.093		0.020	mg/L	26-SEP-20	28-SEP-20	R5241636
Nitrate (as N)	<0.020		0.020	mg/L	26-SEP-20	28-SEP-20	R5241636
Nitrite (as N)	<0.010		0.010	mg/L	26-SEP-20	28-SEP-20	R5241636
Phosphorus (P)-Total	0.0362		0.0030	mg/L	29-SEP-20	30-SEP-20	R5242822
Silica, Reactive (as SiO2)	12.2		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	39.4		0.30	mg/L	26-SEP-20	28-SEP-20	R5241636
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				16-SEP-20	29-SEP-20	R5242174
Dissolved Organic Carbon	12.6	DLM	5.0	mg/L	16-SEP-20	02-OCT-20	R5245089
Total Metals							
Aluminum (Al)-Total	0.0966		0.0030	mg/L	25-SEP-20	26-SEP-20	R5241304
Antimony (Sb)-Total	0.00048		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Arsenic (As)-Total	0.0693		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Barium (Ba)-Total	0.142		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Beryllium (Be)-Total	0.00014		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Boron (B)-Total	<0.010		0.010	mg/L	25-SEP-20	26-SEP-20	R5241304
Cadmium (Cd)-Total	0.0000256		0.0000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Calcium (Ca)-Total	80.0		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Cesium (Cs)-Total	0.000355		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Chromium (Cr)-Total	0.00083		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Cobalt (Co)-Total	0.00853		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Copper (Cu)-Total	0.00151		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Iron (Fe)-Total	5.99		0.010	mg/L	25-SEP-20	26-SEP-20	R5241304
Lead (Pb)-Total	0.00138		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Lithium (Li)-Total	0.0032		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Magnesium (Mg)-Total	14.7		0.0050	mg/L	25-SEP-20	26-SEP-20	R5241304
Manganese (Mn)-Total	1.91		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Molybdenum (Mo)-Total	0.00147		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Nickel (Ni)-Total	0.00491		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Phosphorus (P)-Total	<0.050		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507837-4 SP-GW-BL-235 Sampled By: SG on 16-SEP-20 @ 10:00 Matrix: Groundwater							
Total Metals							
Potassium (K)-Total	1.89		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Rubidium (Rb)-Total	0.00241		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Selenium (Se)-Total	0.000091		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Silicon (Si)-Total	6.03		0.10	mg/L	25-SEP-20	26-SEP-20	R5241304
Silver (Ag)-Total	0.000033		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Sodium (Na)-Total	1.81		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Strontium (Sr)-Total	0.565		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Sulfur (S)-Total	13.5		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Thallium (Tl)-Total	0.000046		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Thorium (Th)-Total	0.00014		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Tin (Sn)-Total	<0.00010		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Titanium (Ti)-Total	0.00467		0.00030	mg/L	25-SEP-20	26-SEP-20	R5241304
Tungsten (W)-Total	0.00317		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Uranium (U)-Total	0.000778		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Vanadium (V)-Total	0.00184		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Zinc (Zn)-Total	0.0288		0.0030	mg/L	25-SEP-20	26-SEP-20	R5241304
Zirconium (Zr)-Total	0.00748		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0191		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00236		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.115		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	0.00013		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	76.9		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000295		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00028		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00044		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	1.75		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0030		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	14.4		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.560		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.000907		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507837-4 SP-GW-BL-235 Sampled By: SG on 16-SEP-20 @ 10:00 Matrix: Groundwater							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00050		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	1.91		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00225		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000331	DTSE	0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	5.75		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	1.74		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.540		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	13.9		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	0.00132		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.00141		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000713		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	0.00144		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00593		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Radiological Parameters							
Ra-226	0.108		0.010	Bq/L		21-OCT-20	R5268726

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Laboratory Control Sample	Iron (Fe)-Dissolved	MES	L2507837-1, -2, -3, -4
Laboratory Control Sample	Iron (Fe)-Total	MES	L2507837-2, -3, -4
Laboratory Control Sample	Iron (Fe)-Total	MES	L2507837-1
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2507837-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2507837-1, -2, -3, -4
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2507837-1, -2, -3, -4
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2507837-1, -2, -3, -4
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2507837-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2507837-1, -2, -3, -4
Matrix Spike	Aluminum (Al)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Arsenic (As)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Barium (Ba)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Cesium (Cs)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Chromium (Cr)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Cobalt (Co)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Copper (Cu)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Iron (Fe)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Lead (Pb)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Lithium (Li)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Manganese (Mn)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Nickel (Ni)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Potassium (K)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Rubidium (Rb)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Silicon (Si)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Sodium (Na)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Strontium (Sr)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Titanium (Ti)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Uranium (U)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Vanadium (V)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Zinc (Zn)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Ammonia, Total (as N)	MS-B	L2507837-2, -3, -4
Matrix Spike	Ammonia, Total (as N)	MS-B	L2507837-1
Matrix Spike	Phosphorus (P)-Total	MS-B	L2507837-2, -3, -4
Matrix Spike	Phosphorus (P)-Total	MS-B	L2507837-1
Matrix Spike	Silica, Reactive (as SiO2)	MS-B	L2507837-1, -2, -3, -4

Sample Parameter Qualifier key listed:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
DTSE	Dissolved Se concentration exceeds total. Positive bias on D-Se suspected due to signal enhancement from volatile selenium species. Contact ALS if an alternative test to address this interference is needed.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a

Reference Information

pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CN-TOT-WT	Water	Cyanide, Total	ISO 14403-2

Total cyanide is determined by the combination of UV digestion and distillation. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

When using this method, high levels of thiocyanate in samples can cause false positives at ~1-2% of the thiocyanate concentration. For samples with detectable cyanide analyzed by this method, ALS recommends analysis for thiocyanate to check for this potential interference

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

Reference Information

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

SIO2-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2507837 Report Date: 31-OCT-20

Client: Gold Canyon Resources Inc.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2
Contact: David Mchaina

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5240716								
WG3412967-2 LCS								
Acidity (as CaCO3)			109.9		%		85-115	27-SEP-20
WG3412967-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	27-SEP-20
ALK-TITR-TB	Water							
Batch R5238816								
WG3412954-3 DUP		**L2507837-2**						
Alkalinity, Total (as CaCO3)		193	199		mg/L	2.8	20	26-SEP-20
WG3412954-2 LCS								
Alkalinity, Total (as CaCO3)			106.5		%		85-115	26-SEP-20
WG3412954-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	26-SEP-20
BR-IC-N-TB	Water							
Batch R5241636								
WG3412971-2 LCS								
Bromide (Br)			100.3		%		85-115	28-SEP-20
WG3412971-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	28-SEP-20
CL-L-IC-N-TB	Water							
Batch R5241636								
WG3412971-2 LCS								
Chloride (Cl)			100.8		%		90-110	28-SEP-20
WG3412971-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	28-SEP-20
CN-TOT-WT	Water							
Batch R5242373								
WG3414759-2 LCS								
Cyanide, Total			96.8		%		80-120	29-SEP-20
WG3414759-1 MB								
Cyanide, Total			<0.0020		mg/L		0.002	29-SEP-20
DOC-WT	Water							
Batch R5245089								
WG3414907-2 LCS								
Dissolved Organic Carbon			105.6		%		80-120	02-OCT-20
WG3414907-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	02-OCT-20
EC-TITR-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-TITR-TB	Water							
Batch R5238816								
WG3412954-3 DUP		**L2507837-2**						
Conductivity (EC)		364	363		uS/cm	0.3	10	26-SEP-20
WG3412954-2 LCS								
Conductivity (EC)			98.7		%		90-110	26-SEP-20
WG3412954-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	26-SEP-20
F-IC-N-TB	Water							
Batch R5241636								
WG3412971-2 LCS								
Fluoride (F)			106.4		%		90-110	28-SEP-20
WG3412971-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	28-SEP-20
HG-D-CVAA-WT	Water							
Batch R5242529								
WG3415210-2 LCS								
Mercury (Hg)-Dissolved			112.0		%		80-120	30-SEP-20
WG3415210-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	30-SEP-20
Batch R5244035								
WG3417076-2 LCS								
Mercury (Hg)-Dissolved			104.0		%		80-120	02-OCT-20
WG3417076-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	02-OCT-20
MET-D-CCMS-TB	Water							
Batch R5241344								
WG3412443-6 LCS								
Aluminum (Al)-Dissolved			102.7		%		80-120	25-SEP-20
Antimony (Sb)-Dissolved			99.2		%		80-120	25-SEP-20
Arsenic (As)-Dissolved			100.4		%		80-120	25-SEP-20
Barium (Ba)-Dissolved			100.7		%		80-120	25-SEP-20
Beryllium (Be)-Dissolved			95.9		%		80-120	25-SEP-20
Bismuth (Bi)-Dissolved			94.9		%		80-120	25-SEP-20
Boron (B)-Dissolved			94.5		%		80-120	25-SEP-20
Cadmium (Cd)-Dissolved			95.7		%		80-120	25-SEP-20
Calcium (Ca)-Dissolved			99.0		%		80-120	25-SEP-20
Cesium (Cs)-Dissolved			101.1		%		80-120	25-SEP-20
Chromium (Cr)-Dissolved			98.6		%		80-120	25-SEP-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5241344								
WG3412443-6 LCS								
Cobalt (Co)-Dissolved			98.5		%		80-120	25-SEP-20
Copper (Cu)-Dissolved			96.3		%		80-120	25-SEP-20
Iron (Fe)-Dissolved			122.5	MES	%		80-120	25-SEP-20
Lead (Pb)-Dissolved			94.7		%		80-120	25-SEP-20
Lithium (Li)-Dissolved			100.5		%		80-120	25-SEP-20
Magnesium (Mg)-Dissolved			103.1		%		80-120	25-SEP-20
Manganese (Mn)-Dissolved			101.1		%		80-120	25-SEP-20
Molybdenum (Mo)-Dissolved			101.1		%		80-120	25-SEP-20
Nickel (Ni)-Dissolved			97.9		%		80-120	25-SEP-20
Phosphorus (P)-Dissolved			109.5		%		80-120	25-SEP-20
Potassium (K)-Dissolved			101.9		%		80-120	25-SEP-20
Rubidium (Rb)-Dissolved			96.6		%		80-120	25-SEP-20
Selenium (Se)-Dissolved			99.3		%		80-120	25-SEP-20
Silicon (Si)-Dissolved			104.1		%		80-120	25-SEP-20
Silver (Ag)-Dissolved			98.1		%		80-120	25-SEP-20
Sodium (Na)-Dissolved			97.4		%		80-120	25-SEP-20
Strontium (Sr)-Dissolved			97.2		%		80-120	25-SEP-20
Sulfur (S)-Dissolved			107.5		%		80-120	25-SEP-20
Tellurium (Te)-Dissolved			98.0		%		80-120	25-SEP-20
Thallium (Tl)-Dissolved			95.0		%		80-120	25-SEP-20
Thorium (Th)-Dissolved			94.1		%		80-120	25-SEP-20
Tin (Sn)-Dissolved			98.6		%		80-120	25-SEP-20
Titanium (Ti)-Dissolved			97.5		%		80-120	25-SEP-20
Tungsten (W)-Dissolved			98.2		%		80-120	25-SEP-20
Uranium (U)-Dissolved			95.2		%		80-120	25-SEP-20
Vanadium (V)-Dissolved			99.4		%		80-120	25-SEP-20
Zinc (Zn)-Dissolved			88.6		%		80-120	25-SEP-20
Zirconium (Zr)-Dissolved			100.2		%		80-120	25-SEP-20
WG3412443-5 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	25-SEP-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5241344								
WG3412443-5 MB								
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	25-SEP-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	25-SEP-20
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	25-SEP-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	25-SEP-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	25-SEP-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	25-SEP-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	25-SEP-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	25-SEP-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	25-SEP-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	25-SEP-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	25-SEP-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	25-SEP-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	25-SEP-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	25-SEP-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	25-SEP-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	25-SEP-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	25-SEP-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	25-SEP-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	25-SEP-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	25-SEP-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	25-SEP-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	25-SEP-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	25-SEP-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	25-SEP-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	25-SEP-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	25-SEP-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	25-SEP-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	25-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5241304								
WG3412192-6 LCS								
Aluminum (Al)-Total			101.7		%		80-120	26-SEP-20
Antimony (Sb)-Total			104.8		%		80-120	26-SEP-20
Arsenic (As)-Total			101.5		%		80-120	26-SEP-20
Barium (Ba)-Total			103.3		%		80-120	26-SEP-20
Beryllium (Be)-Total			97.3		%		80-120	26-SEP-20
Bismuth (Bi)-Total			98.2		%		80-120	26-SEP-20
Boron (B)-Total			90.5		%		80-120	26-SEP-20
Cadmium (Cd)-Total			100.2		%		80-120	26-SEP-20
Calcium (Ca)-Total			101.5		%		80-120	26-SEP-20
Cesium (Cs)-Total			105.3		%		80-120	26-SEP-20
Chromium (Cr)-Total			101.9		%		80-120	26-SEP-20
Cobalt (Co)-Total			99.9		%		80-120	26-SEP-20
Copper (Cu)-Total			96.7		%		80-120	26-SEP-20
Iron (Fe)-Total			125.6	MES	%		80-120	26-SEP-20
Lead (Pb)-Total			99.0		%		80-120	26-SEP-20
Lithium (Li)-Total			105.1		%		80-120	26-SEP-20
Magnesium (Mg)-Total			102.8		%		80-120	26-SEP-20
Manganese (Mn)-Total			102.0		%		80-120	26-SEP-20
Molybdenum (Mo)-Total			104.2		%		80-120	26-SEP-20
Nickel (Ni)-Total			99.0		%		80-120	26-SEP-20
Phosphorus (P)-Total			109.6		%		80-120	26-SEP-20
Potassium (K)-Total			103.0		%		80-120	26-SEP-20
Rubidium (Rb)-Total			103.2		%		80-120	26-SEP-20
Selenium (Se)-Total			100.5		%		80-120	26-SEP-20
Silicon (Si)-Total			102.4		%		80-120	26-SEP-20
Silver (Ag)-Total			104.7		%		80-120	26-SEP-20
Sodium (Na)-Total			105.0		%		80-120	26-SEP-20
Strontium (Sr)-Total			100.6		%		80-120	26-SEP-20
Sulfur (S)-Total			116.0		%		80-120	26-SEP-20
Tellurium (Te)-Total			89.4		%		80-120	26-SEP-20
Thallium (Tl)-Total			99.1		%		80-120	26-SEP-20
Thorium (Th)-Total			99.2		%		80-120	26-SEP-20
Tin (Sn)-Total			99.8		%		80-120	26-SEP-20
Titanium (Ti)-Total			100.2		%		80-120	26-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5241304								
WG3412192-6 LCS								
Tungsten (W)-Total			100.1		%		80-120	26-SEP-20
Uranium (U)-Total			95.8		%		80-120	26-SEP-20
Vanadium (V)-Total			101.4		%		80-120	26-SEP-20
Zinc (Zn)-Total			95.2		%		80-120	26-SEP-20
Zirconium (Zr)-Total			103.0		%		80-120	26-SEP-20
WG3412192-5 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	26-SEP-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	26-SEP-20
Boron (B)-Total			<0.010		mg/L		0.01	26-SEP-20
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	26-SEP-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	26-SEP-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	26-SEP-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	26-SEP-20
Iron (Fe)-Total			<0.010		mg/L		0.01	26-SEP-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	26-SEP-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	26-SEP-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	26-SEP-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	26-SEP-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	26-SEP-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	26-SEP-20
Potassium (K)-Total			<0.050		mg/L		0.05	26-SEP-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	26-SEP-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	26-SEP-20
Silicon (Si)-Total			<0.10		mg/L		0.1	26-SEP-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	26-SEP-20
Sodium (Na)-Total			<0.050		mg/L		0.05	26-SEP-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	26-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5241304								
WG3412192-5 MB								
Sulfur (S)-Total			<0.50		mg/L		0.5	26-SEP-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	26-SEP-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	26-SEP-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	26-SEP-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	26-SEP-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	26-SEP-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	26-SEP-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	26-SEP-20
Batch R5241849								
WG3412937-2 LCS								
Aluminum (Al)-Total			99.6		%		80-120	29-SEP-20
Antimony (Sb)-Total			102.2		%		80-120	29-SEP-20
Arsenic (As)-Total			100.6		%		80-120	29-SEP-20
Barium (Ba)-Total			96.2		%		80-120	29-SEP-20
Beryllium (Be)-Total			96.8		%		80-120	29-SEP-20
Bismuth (Bi)-Total			100.4		%		80-120	29-SEP-20
Boron (B)-Total			96.9		%		80-120	29-SEP-20
Cadmium (Cd)-Total			97.7		%		80-120	29-SEP-20
Calcium (Ca)-Total			95.2		%		80-120	29-SEP-20
Cesium (Cs)-Total			101.0		%		80-120	29-SEP-20
Chromium (Cr)-Total			96.9		%		80-120	29-SEP-20
Cobalt (Co)-Total			97.0		%		80-120	29-SEP-20
Copper (Cu)-Total			97.5		%		80-120	29-SEP-20
Iron (Fe)-Total			120.8	MES	%		80-120	29-SEP-20
Lead (Pb)-Total			100.0		%		80-120	29-SEP-20
Lithium (Li)-Total			102.6		%		80-120	29-SEP-20
Magnesium (Mg)-Total			99.9		%		80-120	29-SEP-20
Manganese (Mn)-Total			97.7		%		80-120	29-SEP-20
Molybdenum (Mo)-Total			101.8		%		80-120	29-SEP-20
Nickel (Ni)-Total			97.4		%		80-120	29-SEP-20
Phosphorus (P)-Total			102.0		%		80-120	29-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5241849								
WG3412937-2 LCS								
Potassium (K)-Total			105.2		%		80-120	29-SEP-20
Rubidium (Rb)-Total			98.4		%		80-120	29-SEP-20
Selenium (Se)-Total			109.6		%		80-120	29-SEP-20
Silicon (Si)-Total			101.2		%		80-120	29-SEP-20
Silver (Ag)-Total			101.6		%		80-120	29-SEP-20
Sodium (Na)-Total			101.4		%		80-120	29-SEP-20
Strontium (Sr)-Total			96.6		%		80-120	29-SEP-20
Sulfur (S)-Total			98.6		%		80-120	29-SEP-20
Tellurium (Te)-Total			98.1		%		80-120	29-SEP-20
Thallium (Tl)-Total			101.4		%		80-120	29-SEP-20
Thorium (Th)-Total			97.5		%		80-120	29-SEP-20
Tin (Sn)-Total			100.1		%		80-120	29-SEP-20
Titanium (Ti)-Total			94.2		%		80-120	29-SEP-20
Tungsten (W)-Total			104.7		%		80-120	29-SEP-20
Uranium (U)-Total			98.9		%		80-120	29-SEP-20
Vanadium (V)-Total			98.7		%		80-120	29-SEP-20
Zinc (Zn)-Total			97.1		%		80-120	29-SEP-20
Zirconium (Zr)-Total			102.0		%		80-120	29-SEP-20
WG3412937-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	29-SEP-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	29-SEP-20
Boron (B)-Total			<0.010		mg/L		0.01	29-SEP-20
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	29-SEP-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	29-SEP-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	29-SEP-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	29-SEP-20
Iron (Fe)-Total			<0.010		mg/L		0.01	29-SEP-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	29-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5241849								
WG3412937-1 MB								
Lithium (Li)-Total			<0.0010		mg/L		0.001	29-SEP-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	29-SEP-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	29-SEP-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	29-SEP-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	29-SEP-20
Potassium (K)-Total			<0.050		mg/L		0.05	29-SEP-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	29-SEP-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	29-SEP-20
Silicon (Si)-Total			<0.10		mg/L		0.1	29-SEP-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	29-SEP-20
Sodium (Na)-Total			<0.050		mg/L		0.05	29-SEP-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	29-SEP-20
Sulfur (S)-Total			<0.50		mg/L		0.5	29-SEP-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	29-SEP-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	29-SEP-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	29-SEP-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	29-SEP-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	29-SEP-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	29-SEP-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	29-SEP-20
Batch R5242420								
WG3412937-3 DUP		**L2507837-1**						
Aluminum (Al)-Total		0.0093	0.0102		mg/L	9.8	20	29-SEP-20
Antimony (Sb)-Total		0.00051	0.00052		mg/L	1.6	20	29-SEP-20
Arsenic (As)-Total		0.00157	0.00160		mg/L	2.2	20	29-SEP-20
Barium (Ba)-Total		0.124	0.124		mg/L	0.1	20	29-SEP-20
Beryllium (Be)-Total		0.00053	0.00053		mg/L	0.8	20	29-SEP-20
Bismuth (Bi)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	29-SEP-20
Boron (B)-Total		0.022	0.018		mg/L	19	20	29-SEP-20
Cadmium (Cd)-Total		0.0000072	0.0000061		mg/L	15	20	29-SEP-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5242420								
WG3412937-3 DUP		**L2507837-1**						
Calcium (Ca)-Total		34.8	34.6		mg/L	0.6	20	29-SEP-20
Cesium (Cs)-Total		0.000412	0.000412		mg/L	0.0	20	29-SEP-20
Chromium (Cr)-Total		0.00017	0.00014		mg/L	18	20	29-SEP-20
Cobalt (Co)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	29-SEP-20
Copper (Cu)-Total		0.00942	0.00941		mg/L	0.0	20	29-SEP-20
Iron (Fe)-Total		2.27	2.23		mg/L	1.7	20	29-SEP-20
Lead (Pb)-Total		0.000137	0.000141		mg/L	2.4	20	29-SEP-20
Lithium (Li)-Total		0.0029	0.0026		mg/L	9.9	20	29-SEP-20
Magnesium (Mg)-Total		7.58	7.44		mg/L	1.9	20	29-SEP-20
Manganese (Mn)-Total		0.159	0.160		mg/L	1.0	20	29-SEP-20
Molybdenum (Mo)-Total		0.00467	0.00472		mg/L	1.1	20	29-SEP-20
Nickel (Ni)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	29-SEP-20
Phosphorus (P)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	20	29-SEP-20
Potassium (K)-Total		1.90	1.93		mg/L	1.6	20	29-SEP-20
Rubidium (Rb)-Total		0.00200	0.00194		mg/L	3.4	20	29-SEP-20
Selenium (Se)-Total		0.000057	<0.000050	RPD-NA	mg/L	N/A	20	29-SEP-20
Silicon (Si)-Total		3.94	3.82		mg/L	3.0	20	29-SEP-20
Silver (Ag)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	29-SEP-20
Sodium (Na)-Total		12.8	12.9		mg/L	0.4	20	29-SEP-20
Strontium (Sr)-Total		0.316	0.316		mg/L	0.0	20	29-SEP-20
Sulfur (S)-Total		8.19	7.92		mg/L	3.4	20	29-SEP-20
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	29-SEP-20
Thallium (Tl)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	29-SEP-20
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	29-SEP-20
Tin (Sn)-Total		0.00023	0.00022		mg/L	3.7	20	29-SEP-20
Titanium (Ti)-Total		0.00038	0.00034		mg/L	13	20	29-SEP-20
Tungsten (W)-Total		0.00116	0.00117		mg/L	1.1	20	29-SEP-20
Uranium (U)-Total		0.000366	0.000365		mg/L	0.2	20	29-SEP-20
Vanadium (V)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	29-SEP-20
Zinc (Zn)-Total		0.0393	0.0393		mg/L	0.0	20	29-SEP-20
Zirconium (Zr)-Total		0.00045	0.00043		mg/L	3.7	20	29-SEP-20
NH3-F-TB	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-F-TB	Water							
Batch R5241196								
WG3413115-2 LCS								
Ammonia, Total (as N)			103.3		%		85-115	28-SEP-20
WG3413115-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	28-SEP-20
Batch R5243069								
WG3413226-2 LCS								
Ammonia, Total (as N)			98.2		%		85-115	30-SEP-20
WG3413226-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	30-SEP-20
NO2-IC-N-TB	Water							
Batch R5241636								
WG3412971-2 LCS								
Nitrite (as N)			102.1		%		90-110	28-SEP-20
WG3412971-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	28-SEP-20
NO3-IC-N-TB	Water							
Batch R5241636								
WG3412971-2 LCS								
Nitrate (as N)			100.7		%		90-110	28-SEP-20
WG3412971-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	28-SEP-20
P-T-COL-TB	Water							
Batch R5242822								
WG3413124-2 LCS								
Phosphorus (P)-Total			102.7		%		80-120	30-SEP-20
WG3413124-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	30-SEP-20
Batch R5243943								
WG3413231-2 LCS								
Phosphorus (P)-Total			101.9		%		80-120	01-OCT-20
WG3413231-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	01-OCT-20
PH-TITR-TB	Water							
Batch R5238816								
WG3412954-3 DUP		**L2507837-2**						
pH		7.50	7.44	J	pH	0.06	0.2	26-SEP-20
WG3412954-2 LCS								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-TITR-TB	Water							
Batch R5238816								
WG3412954-2 LCS								
pH			7.02		pH		6.9-7.1	26-SEP-20
SIO2-COL-WP	Water							
Batch R5245202								
WG3418522-2 LCS								
Silica, Reactive (as SiO2)			101.2		%		85-115	05-OCT-20
WG3418522-1 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	05-OCT-20
SO4-IC-N-TB	Water							
Batch R5241636								
WG3412971-2 LCS								
Sulfate (SO4)			103.2		%		90-110	28-SEP-20
WG3412971-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	28-SEP-20
TDS-TB	Water							
Batch R5241719								
WG3413506-2 LCS								
Total Dissolved Solids			96.0		%		85-115	28-SEP-20
WG3413506-1 MB								
Total Dissolved Solids			<10		mg/L		10	28-SEP-20
Batch R5242611								
WG3413951-2 LCS								
Total Dissolved Solids			97.2		%		85-115	29-SEP-20
WG3413951-1 MB								
Total Dissolved Solids			<10		mg/L		10	29-SEP-20
TSS-TB	Water							
Batch R5241678								
WG3413509-2 LCS								
Total Suspended Solids			93.3		%		85-115	28-SEP-20
WG3413509-1 MB								
Total Suspended Solids			<3.0		mg/L		3	28-SEP-20
Batch R5242422								
WG3413953-2 LCS								
Total Suspended Solids			95.7		%		85-115	29-SEP-20
WG3413953-1 MB								
Total Suspended Solids			<3.0		mg/L		3	29-SEP-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Total Dissolved Solids							
	1	16-SEP-20 11:14	29-SEP-20 09:24	7	13	days	EHTR
	2	16-SEP-20 14:35	28-SEP-20 10:07	7	12	days	EHTR
	3	16-SEP-20 11:39	28-SEP-20 10:07	7	12	days	EHTR
	4	16-SEP-20 10:00	28-SEP-20 10:07	7	12	days	EHTR
Total Suspended Solids							
	1	16-SEP-20 11:14	29-SEP-20 09:24	7	13	days	EHTR
	2	16-SEP-20 14:35	28-SEP-20 10:07	7	12	days	EHTR
	3	16-SEP-20 11:39	28-SEP-20 10:07	7	12	days	EHTR
	4	16-SEP-20 10:00	28-SEP-20 10:07	7	12	days	EHTR
pH							
	1	16-SEP-20 11:14	26-SEP-20 10:30	4	10	days	EHTR
	2	16-SEP-20 14:35	26-SEP-20 10:30	4	10	days	EHTR
	3	16-SEP-20 11:39	26-SEP-20 10:30	4	10	days	EHTR
	4	16-SEP-20 10:00	26-SEP-20 10:30	4	10	days	EHTR
Leachable Anions & Nutrients							
Nitrate in Water by IC							
	1	16-SEP-20 11:14	26-SEP-20 10:30	7	10	days	EHTR
	2	16-SEP-20 14:35	26-SEP-20 10:30	7	10	days	EHTR
	3	16-SEP-20 11:39	26-SEP-20 10:30	7	10	days	EHTR
	4	16-SEP-20 10:00	26-SEP-20 10:30	7	10	days	EHTR
Nitrite in Water by IC							
	1	16-SEP-20 11:14	26-SEP-20 10:30	7	10	days	EHTR
	2	16-SEP-20 14:35	26-SEP-20 10:30	7	10	days	EHTR
	3	16-SEP-20 11:39	26-SEP-20 10:30	7	10	days	EHTR
	4	16-SEP-20 10:00	26-SEP-20 10:30	7	10	days	EHTR

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2507837 were received on 24-SEP-20 13:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Your P.O. #: L2507837
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/10/23
Report #: R6382079
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0P7845
Received: 2020/10/02, 10:55

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Radium Isotopes by Alpha Spectrometry (1)	3	N/A	2020/10/21	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
(1) Radium-226 results have not been corrected for blanks.

Your P.O. #: L2507837
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/10/23
Report #: R6382079
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0P7845
Received: 2020/10/02, 10:55

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Mayank Nigam, Project Manager
Email: Mayank.Nigam@bvlabs.com
Phone# (905) 826-3080
==========
This report has been generated and distributed using a secure automated process.
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BV Labs Job #: C0P7845
Report Date: 2020/10/23

ALS Laboratory Group
Your P.O. #: L2507837

RESULTS OF ANALYSES OF WATER

BV Labs ID		NUE040	NUE041	NUE043		
Sampling Date		2020/09/16	2020/09/16	2020/09/16		
COC Number		N/A	N/A	N/A		
	UNITS	**L2507837-2 SP-GW-SP11-064**	**L2507837-3 SP-GW-BL-385**	**L2507837-4 SP-GW-BL-235**	**RDL**	**QC Batch**
Radium-226	Bq/L	<0.010	0.021	0.108	0.010	7005450

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Laboratories 6790 Kitimat Rd, Unit 4, Mississauga, ON L5N 5L9 Phone: (905) 826-3080 Fax: (905) 826-4151 Toll Free: 1 877-726-3080 www.bvlabs.com

TEST SUMMARY

BV Labs ID: NUE040
Sample ID: L2507837-2 SP-GW-SP11-064
Matrix: Water

Collected: 2020/09/16
Shipped:
Received: 2020/10/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	7005450	N/A	2020/10/21	Priya Sharma

BV Labs ID: NUE041
Sample ID: L2507837-3 SP-GW-BL-385
Matrix: Water

Collected: 2020/09/16
Shipped:
Received: 2020/10/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	7005450	N/A	2020/10/21	Priya Sharma

BV Labs ID: NUE043
Sample ID: L2507837-4 SP-GW-BL-235
Matrix: Water

Collected: 2020/09/16
Shipped:
Received: 2020/10/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	7005450	N/A	2020/10/21	Priya Sharma

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GENERAL COMMENTS

Results relate only to the items tested.

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BV Labs Job #: C0P7845
Report Date: 2020/10/23

ALS Laboratory Group
Your P.O. #: L2507837

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7005450	SHC	Spiked Blank	Radium-226	2020/10/21		98	%	85 - 115
7005450	SHC	Method Blank	Radium-226	2020/10/21	<0.010		Bq/L	
7005450	SHC	RPD	Radium-226	2020/10/21	NC		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

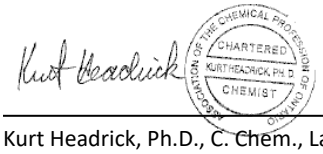
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BV Labs Job #: C0P7845
Report Date: 2020/10/23

ALS Laboratory Group
Your P.O. #: L2507837

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

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Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2507837-COFC

COC Number: 17 -

Page 1 of 1

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)

Quality Control (QC) Report with Report ☒ YES ☐ NO

☒ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX

Email 1: dmchaina@firstmininggold.com

Email 2: shila@firstmininggold.com

Email 3: shaun@firstmininggold.com

Invoice Distribution

Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accountspayable@firstmininggold.com

Email 2: dmchaina@firstmininggold.com

Oil and Gas Required Fields (client use)

AFE/Cost Center: | PO#

Major/Minor Code: | Routing Code:

Requisitioner:

Location:

Project Information

ALS Account # / Quote #: 20864 / Q64154

Job #: Springpole GW

PO / AFE:

LSD: First Mining Gold Project

ALS Lab Work Order # (lab use only): L2507837

ALS Contact: | Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity; Alkalinity; Ammonia, Br; Cl; Conductivit	Dissolved Metals, Total Metals	Dissolved Mercury	DOC, F, Hardness, NO2,NO3, pH, SO4	TDS	Total Cyanide	Total Phosphorus, TSS	Reactive Silica	Radium 226	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	SP-GW-BL-143-D	Sept16	16:44	Ground Water	9	x	x	x	x	x	x	x	x			
	SP-GW-SPII-064	Sept16	14:35	Ground Water	9	x	x	x	x	x	x	x	x	*		
	SP-GW-BL-385	Sept16	11:39	Ground Water	9	x	x	x	x	x	x	x	x	*		
	SP-GW-BL-335	Sept16	10:00	Ground Water	9	x	x	x	x	x	x	x	x	x		
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

Compare to PWQO and CCME

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☑

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
18.0							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
	Sept 16	8:00 AM		Sept 21/16	1:30			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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NOV 2016 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: David Mchaina
c/ o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 24-SEP-20
Report Date: 31-OCT-20 17:19 (MT)
Version: FINAL

Client Phone: 705-929-5245

Certificate of Analysis

Lab Work Order #: L2507954

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE GW
C of C Numbers:
Legal Site Desc: First Mining Gold Project

Christine Paradis
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-1 SP-GW-BL-334-D Sampled By: Client on 17-SEP-20 @ 12:13 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	537		1.0	uS/cm		26-SEP-20	R5238816
Hardness (as CaCO3)	265		0.50	mg/L		29-SEP-20	
pH	7.65		0.10	pH		26-SEP-20	R5238816
Total Suspended Solids	54.4		3.0	mg/L		28-SEP-20	R5241678
Total Dissolved Solids	345		20	mg/L		28-SEP-20	R5241719
Anions and Nutrients							
Acidity (as CaCO3)	11.9		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	325		2.0	mg/L		26-SEP-20	R5238816
Ammonia, Total (as N)	0.201		0.0050	mg/L	26-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	26-SEP-20	28-SEP-20	R5241636
Chloride (Cl)	0.18		0.10	mg/L	26-SEP-20	28-SEP-20	R5241636
Fluoride (F)	0.071		0.020	mg/L	26-SEP-20	28-SEP-20	R5241636
Nitrate (as N)	<0.020		0.020	mg/L	26-SEP-20	28-SEP-20	R5241636
Nitrite (as N)	<0.010		0.010	mg/L	26-SEP-20	28-SEP-20	R5241636
Phosphorus (P)-Total	0.052		0.030	mg/L	29-SEP-20	30-SEP-20	R5242822
Silica, Reactive (as SiO2)	13.3		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	17.7		0.30	mg/L	26-SEP-20	28-SEP-20	R5241636
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				17-SEP-20	29-SEP-20	R5242174
Dissolved Organic Carbon	10.9	DLM	5.0	mg/L	17-SEP-20	02-OCT-20	R5245089
Total Metals							
Aluminum (Al)-Total	3.82		0.0030	mg/L	25-SEP-20	26-SEP-20	R5241304
Antimony (Sb)-Total	0.00011		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Arsenic (As)-Total	0.00065		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Barium (Ba)-Total	0.0892		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Beryllium (Be)-Total	0.00014		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Boron (B)-Total	0.017		0.010	mg/L	25-SEP-20	26-SEP-20	R5241304
Cadmium (Cd)-Total	0.0000318		0.0000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Calcium (Ca)-Total	96.2		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Cesium (Cs)-Total	0.000796		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Chromium (Cr)-Total	0.00897		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Cobalt (Co)-Total	0.00423		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Copper (Cu)-Total	0.0230		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Iron (Fe)-Total	4.26		0.010	mg/L	25-SEP-20	26-SEP-20	R5241304
Lead (Pb)-Total	0.00125		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Lithium (Li)-Total	0.0057		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Magnesium (Mg)-Total	13.3		0.0050	mg/L	25-SEP-20	26-SEP-20	R5241304
Manganese (Mn)-Total	0.180		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Molybdenum (Mo)-Total	0.00148		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-1 SP-GW-BL-334-D Sampled By: Client on 17-SEP-20 @ 12:13 Matrix: Ground Water							
Total Metals							
Nickel (Ni)-Total	0.00809		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Phosphorus (P)-Total	<0.050		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Potassium (K)-Total	3.80		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Rubidium (Rb)-Total	0.0105		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Selenium (Se)-Total	0.000432		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Silicon (Si)-Total	11.7		0.10	mg/L	25-SEP-20	26-SEP-20	R5241304
Silver (Ag)-Total	0.000612		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Sodium (Na)-Total	5.38		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Strontium (Sr)-Total	0.659		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Sulfur (S)-Total	7.45		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304
Tellurium (Te)-Total	0.00030		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Thallium (Tl)-Total	0.000089		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Thorium (Th)-Total	0.00096		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Tin (Sn)-Total	0.00013		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Titanium (Ti)-Total	0.207		0.00030	mg/L	25-SEP-20	26-SEP-20	R5241304
Tungsten (W)-Total	0.00415		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Uranium (U)-Total	0.00108		0.000010	mg/L	25-SEP-20	26-SEP-20	R5241304
Vanadium (V)-Total	0.0118		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Zinc (Zn)-Total	0.0140		0.0030	mg/L	25-SEP-20	26-SEP-20	R5241304
Zirconium (Zr)-Total	0.00068		0.00020	mg/L	25-SEP-20	26-SEP-20	R5241304
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0097		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00032		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0747		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	0.019		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	0.0000152		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	88.7		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000049		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00037		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00118		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00889		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.045		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0026		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	10.4		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.0762		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-1 SP-GW-BL-334-D Sampled By: Client on 17-SEP-20 @ 12:13 Matrix: Ground Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	0.0000052		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.00136		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00148		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	3.28		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00584		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000385		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	6.24		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	4.78		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.623		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	7.41		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	0.000019		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.00374		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000822		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	0.00117		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	0.0018		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00046		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Radiological Parameters							
Ra-226	<0.010		0.010	Bq/L		22-OCT-20	R5268726
L2507954-2 SP-GW-MW5 Sampled By: Client on 17-SEP-20 @ 13:39 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	581		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	306		0.50	mg/L		30-SEP-20	
pH	7.61		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	14500		30	mg/L		24-SEP-20	R5235778
Total Dissolved Solids	645		80	mg/L		24-SEP-20	R5236000
Anions and Nutrients							
Acidity (as CaCO3)	12.5		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	464		2.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.028		0.010	mg/L	26-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Chloride (Cl)	0.20		0.17	mg/L	25-SEP-20	25-SEP-20	R5238018
Fluoride (F)	0.166		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrate (as N)	0.230		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5238018

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-2 SP-GW-MW5 Sampled By: Client on 17-SEP-20 @ 13:39 Matrix: Ground Water							
Anions and Nutrients							
Phosphorus (P)-Total	6.35		0.75	mg/L	01-OCT-20	02-OCT-20	R5244659
Silica, Reactive (as SiO2)	14.8		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	23.8		0.30	mg/L	25-SEP-20	25-SEP-20	R5238018
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				17-SEP-20	29-SEP-20	R5242174
Dissolved Organic Carbon	5.9	DLM	5.0	mg/L	17-SEP-20	02-OCT-20	R5245089
Total Metals							
Aluminum (Al)-Total	180		0.030	mg/L	26-SEP-20	29-SEP-20	R5242420
Antimony (Sb)-Total	0.0016		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Arsenic (As)-Total	0.0796		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Barium (Ba)-Total	1.39		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Beryllium (Be)-Total	0.0058		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Bismuth (Bi)-Total	0.00200		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Boron (B)-Total	0.11		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Cadmium (Cd)-Total	0.00276		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Calcium (Ca)-Total	807		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Cesium (Cs)-Total	0.0283		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Chromium (Cr)-Total	0.385		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cobalt (Co)-Total	0.177		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Copper (Cu)-Total	0.722		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Iron (Fe)-Total	270		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Lead (Pb)-Total	0.0870		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Lithium (Li)-Total	0.219		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Magnesium (Mg)-Total	223		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Manganese (Mn)-Total	6.50		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Molybdenum (Mo)-Total	0.0144		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Nickel (Ni)-Total	0.347		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Phosphorus (P)-Total	9.30		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Potassium (K)-Total	40.4		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Rubidium (Rb)-Total	0.326		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Selenium (Se)-Total	0.00216		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Silicon (Si)-Total	314		1.0	mg/L	26-SEP-20	29-SEP-20	R5242420
Silver (Ag)-Total	0.00221		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Sodium (Na)-Total	20.9		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Strontium (Sr)-Total	0.931		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Sulfur (S)-Total	7.0		5.0	mg/L	26-SEP-20	29-SEP-20	R5242420
Tellurium (Te)-Total	0.0026		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Thallium (Tl)-Total	0.00355		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Thorium (Th)-Total	0.0718		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Tin (Sn)-Total	0.0049		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-2 SP-GW-MW5 Sampled By: Client on 17-SEP-20 @ 13:39 Matrix: Ground Water							
Total Metals							
Titanium (Ti)-Total	10.4		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Tungsten (W)-Total	<0.0010	DLM	0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Uranium (U)-Total	0.00820		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Vanadium (V)-Total	0.431		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Zinc (Zn)-Total	0.786		0.030	mg/L	26-SEP-20	29-SEP-20	R5242420
Zirconium (Zr)-Total	0.0706		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.156		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00024		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0552		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	0.0000162		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	98.3		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000027		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00061		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00028		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00448		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.276		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	0.000256		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0102		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	14.8		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.0117		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.00384		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00086		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	1.81		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00073		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.00144		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	7.10		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	3.61		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.139		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	8.28		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-2 SP-GW-MW5 Sampled By: Client on 17-SEP-20 @ 13:39 Matrix: Ground Water							
Dissolved Metals							
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	0.00972		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000902		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	0.00068		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	0.0036		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00035		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Radiological Parameters							
Ra-226	0.200		0.010	Bq/L		22-OCT-20	R5268726
L2507954-3 SP-GW-MW4 Sampled By: Client on 17-SEP-20 @ 14:41 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	101		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	54.5		0.50	mg/L		30-SEP-20	
pH	6.79		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	28100		75	mg/L		24-SEP-20	R5235778
Total Dissolved Solids	1360		200	mg/L		24-SEP-20	R5236000
Anions and Nutrients							
Acidity (as CaCO3)	13.8		5.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	76.0		5.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.077		0.025	mg/L	26-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Chloride (Cl)	<0.10		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Fluoride (F)	0.048		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrate (as N)	0.106		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5238018
Phosphorus (P)-Total	41.2		1.5	mg/L	01-OCT-20	02-OCT-20	R5244659
Silica, Reactive (as SiO2)	9.3		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	2.84		0.63	mg/L	25-SEP-20	25-SEP-20	R5238018
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				17-SEP-20	29-SEP-20	R5242174
Dissolved Organic Carbon	23.7	DLM	5.0	mg/L	17-SEP-20	02-OCT-20	R5245089
Total Metals							
Aluminum (Al)-Total	357		0.060	mg/L	25-SEP-20	29-SEP-20	R5242420
Antimony (Sb)-Total	<0.0010	DLHC	0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Arsenic (As)-Total	0.0285		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Barium (Ba)-Total	3.81		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Beryllium (Be)-Total	0.0107		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-3 SP-GW-MW4 Sampled By: Client on 17-SEP-20 @ 14:41 Matrix: Ground Water							
Total Metals							
Bismuth (Bi)-Total	0.00356		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Boron (B)-Total	<0.10	DLHC	0.10	mg/L	25-SEP-20	26-SEP-20	R5241304
Cadmium (Cd)-Total	0.00240		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Calcium (Ca)-Total	179		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304
Cesium (Cs)-Total	0.0348		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Chromium (Cr)-Total	0.813		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Cobalt (Co)-Total	0.223		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Copper (Cu)-Total	1.81		0.0050	mg/L	25-SEP-20	26-SEP-20	R5241304
Iron (Fe)-Total	382		0.10	mg/L	25-SEP-20	26-SEP-20	R5241304
Lead (Pb)-Total	0.129		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Lithium (Li)-Total	0.425		0.010	mg/L	25-SEP-20	26-SEP-20	R5241304
Magnesium (Mg)-Total	168		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Manganese (Mn)-Total	12.8		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Molybdenum (Mo)-Total	0.0109		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Nickel (Ni)-Total	0.620		0.0050	mg/L	25-SEP-20	26-SEP-20	R5241304
Phosphorus (P)-Total	12.7		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304
Potassium (K)-Total	55.3		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304
Rubidium (Rb)-Total	0.908		0.0020	mg/L	25-SEP-20	26-SEP-20	R5241304
Selenium (Se)-Total	0.00217		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Silicon (Si)-Total	226		1.0	mg/L	25-SEP-20	26-SEP-20	R5241304
Silver (Ag)-Total	0.00283		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Sodium (Na)-Total	5.81		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304
Strontium (Sr)-Total	0.497		0.0020	mg/L	25-SEP-20	26-SEP-20	R5241304
Sulfur (S)-Total	<5.0	DLHC	5.0	mg/L	25-SEP-20	26-SEP-20	R5241304
Tellurium (Te)-Total	<0.0020	DLHC	0.0020	mg/L	25-SEP-20	26-SEP-20	R5241304
Thallium (Tl)-Total	0.00589		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Thorium (Th)-Total	0.0519		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Tin (Sn)-Total	0.0019		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Titanium (Ti)-Total	4.95		0.0030	mg/L	25-SEP-20	26-SEP-20	R5241304
Tungsten (W)-Total	<0.0010	DLHC	0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Uranium (U)-Total	0.0228		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Vanadium (V)-Total	0.542		0.0050	mg/L	25-SEP-20	26-SEP-20	R5241304
Zinc (Zn)-Total	1.05		0.030	mg/L	25-SEP-20	26-SEP-20	R5241304
Zirconium (Zr)-Total	0.0064		0.0020	mg/L	25-SEP-20	26-SEP-20	R5241304
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0480		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00034		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0169		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-3 SP-GW-MW4 Sampled By: Client on 17-SEP-20 @ 14:41 Matrix: Ground Water							
Dissolved Metals							
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	0.0000131		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	18.7		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00032		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00586		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.085		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0010		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	1.88		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.0777		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.000621		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00175		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	0.783		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00063		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000079		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	4.62		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	1.11		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.0333		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	1.83		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	0.00333		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000028		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00030		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
L2507954-4 SP-GW-W3 Sampled By: Client on 17-SEP-20 @ 17:10 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	222		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	138		0.50	mg/L		30-SEP-20	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-4 SP-GW-W3 Sampled By: Client on 17-SEP-20 @ 17:10 Matrix: Ground Water							
Physical Tests							
pH	6.72		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	12800		75	mg/L		24-SEP-20	R5235778
Total Dissolved Solids	510		200	mg/L		24-SEP-20	R5236000
Anions and Nutrients							
Acidity (as CaCO3)	19.8		5.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	143		2.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.280		0.025	mg/L	26-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Chloride (Cl)	0.55		0.17	mg/L	25-SEP-20	25-SEP-20	R5238018
Fluoride (F)	0.038		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrate (as N)	<0.020		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5238018
Phosphorus (P)-Total	6.45		0.75	mg/L	01-OCT-20	02-OCT-20	R5244659
Silica, Reactive (as SiO2)	11.9		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	<0.30		0.30	mg/L	25-SEP-20	25-SEP-20	R5238018
Cyanides							
Cyanide, Total	<0.010	DLM	0.010	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				17-SEP-20	29-SEP-20	R5242174
Dissolved Organic Carbon	64.2	DLM	5.0	mg/L	17-SEP-20	02-OCT-20	R5245089
Total Metals							
Aluminum (Al)-Total	160		0.030	mg/L	25-SEP-20	26-SEP-20	R5241304
Antimony (Sb)-Total	0.0012		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Arsenic (As)-Total	0.0719		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Barium (Ba)-Total	1.14		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Beryllium (Be)-Total	0.0034		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Bismuth (Bi)-Total	0.00151		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Boron (B)-Total	<0.10	DLHC	0.10	mg/L	25-SEP-20	26-SEP-20	R5241304
Cadmium (Cd)-Total	0.000898		0.000050	mg/L	25-SEP-20	26-SEP-20	R5241304
Calcium (Ca)-Total	137		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304
Cesium (Cs)-Total	0.0232		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Chromium (Cr)-Total	0.413		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Cobalt (Co)-Total	0.132		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Copper (Cu)-Total	0.152		0.0050	mg/L	25-SEP-20	26-SEP-20	R5241304
Iron (Fe)-Total	276		0.10	mg/L	25-SEP-20	26-SEP-20	R5241304
Lead (Pb)-Total	0.109		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Lithium (Li)-Total	0.329		0.010	mg/L	25-SEP-20	26-SEP-20	R5241304
Magnesium (Mg)-Total	71.8		0.050	mg/L	25-SEP-20	26-SEP-20	R5241304
Manganese (Mn)-Total	6.43		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Molybdenum (Mo)-Total	0.00370		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Nickel (Ni)-Total	0.225		0.0050	mg/L	25-SEP-20	26-SEP-20	R5241304
Phosphorus (P)-Total	8.87		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-4 SP-GW-W3 Sampled By: Client on 17-SEP-20 @ 17:10 Matrix: Ground Water							
Total Metals							
Potassium (K)-Total	15.3		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304
Rubidium (Rb)-Total	0.199		0.0020	mg/L	25-SEP-20	26-SEP-20	R5241304
Selenium (Se)-Total	0.00163		0.00050	mg/L	25-SEP-20	26-SEP-20	R5241304
Silicon (Si)-Total	198		1.0	mg/L	25-SEP-20	26-SEP-20	R5241304
Silver (Ag)-Total	0.00129		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Sodium (Na)-Total	7.68		0.50	mg/L	25-SEP-20	26-SEP-20	R5241304
Strontium (Sr)-Total	0.861		0.0020	mg/L	25-SEP-20	26-SEP-20	R5241304
Sulfur (S)-Total	<5.0	DLHC	5.0	mg/L	25-SEP-20	26-SEP-20	R5241304
Tellurium (Te)-Total	<0.0020	DLHC	0.0020	mg/L	25-SEP-20	26-SEP-20	R5241304
Thallium (Tl)-Total	0.00155		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Thorium (Th)-Total	0.0178		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Tin (Sn)-Total	0.0062		0.0010	mg/L	25-SEP-20	26-SEP-20	R5241304
Titanium (Ti)-Total	10.3		0.0030	mg/L	25-SEP-20	26-SEP-20	R5241304
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-SEP-20	29-SEP-20	R5242420
Uranium (U)-Total	0.00845		0.00010	mg/L	25-SEP-20	26-SEP-20	R5241304
Vanadium (V)-Total	0.401		0.0050	mg/L	25-SEP-20	26-SEP-20	R5241304
Zinc (Zn)-Total	0.534		0.030	mg/L	25-SEP-20	26-SEP-20	R5241304
Zirconium (Zr)-Total	0.0094		0.0020	mg/L	25-SEP-20	26-SEP-20	R5241304
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.204		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00837		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0611		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	0.0000172		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	43.3		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000011		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00099		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00161		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00063		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	4.34		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	0.000290		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0016		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	7.21		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	1.35		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	0.0000090		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.000421		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-4 SP-GW-W3 Sampled By: Client on 17-SEP-20 @ 17:10 Matrix: Ground Water							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00124		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	1.47		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00304		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000161		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	5.83		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	1.21		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.246		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	0.00019		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	0.00994		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000042		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	0.00435		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	0.0043		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00144		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
L2507954-5 SP-FBH-09-R1-D Sampled By: Client on 19-SEP-20 @ 13:05 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	414		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	191		0.50	mg/L		30-SEP-20	
pH	7.74		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	4640		7.5	mg/L		25-SEP-20	R5238080
Total Dissolved Solids	277		20	mg/L		25-SEP-20	R5238160
Anions and Nutrients							
Acidity (as CaCO3)	3.9		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	318		2.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.665		0.025	mg/L	02-OCT-20	02-OCT-20	R5244232
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Chloride (Cl)	0.82		0.17	mg/L	25-SEP-20	25-SEP-20	R5238018
Fluoride (F)	0.185		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrate (as N)	<0.020		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5238018
Phosphorus (P)-Total	3.51		0.30	mg/L	01-OCT-20	02-OCT-20	R5244659
Silica, Reactive (as SiO2)	12.7		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	11.7		0.30	mg/L	25-SEP-20	25-SEP-20	R5238018
Cyanides							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-5 SP-FBH-09-R1-D Sampled By: Client on 19-SEP-20 @ 13:05 Matrix: Ground Water							
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				19-SEP-20	29-SEP-20	R5242174
Dissolved Organic Carbon	14.8	DLM	5.0	mg/L	19-SEP-20	02-OCT-20	R5245089
Total Metals							
Aluminum (Al)-Total	76.1		0.030	mg/L	26-SEP-20	29-SEP-20	R5242420
Antimony (Sb)-Total	0.0060		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Arsenic (As)-Total	0.0595		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Barium (Ba)-Total	0.882		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Beryllium (Be)-Total	0.0110		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Bismuth (Bi)-Total	<0.00050	DLM	0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Boron (B)-Total	0.11		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Cadmium (Cd)-Total	0.00114		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Calcium (Ca)-Total	179		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Cesium (Cs)-Total	0.126		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Chromium (Cr)-Total	0.106		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cobalt (Co)-Total	0.0555		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Copper (Cu)-Total	0.131		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Iron (Fe)-Total	124		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Lead (Pb)-Total	0.0189		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Lithium (Li)-Total	0.183		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Magnesium (Mg)-Total	72.1		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Manganese (Mn)-Total	2.36		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Molybdenum (Mo)-Total	0.00622		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Nickel (Ni)-Total	0.195		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Phosphorus (P)-Total	3.37		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Potassium (K)-Total	19.9		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Rubidium (Rb)-Total	0.0971		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Selenium (Se)-Total	<0.00050	DLM	0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Silicon (Si)-Total	109		1.0	mg/L	26-SEP-20	29-SEP-20	R5242420
Silver (Ag)-Total	0.00559		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Sodium (Na)-Total	14.3		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Strontium (Sr)-Total	0.850		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Sulfur (S)-Total	6.7		5.0	mg/L	26-SEP-20	29-SEP-20	R5242420
Tellurium (Te)-Total	<0.0020	DLM	0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Thallium (Tl)-Total	0.00121		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Thorium (Th)-Total	0.0209		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Tin (Sn)-Total	<0.0010	DLM	0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Titanium (Ti)-Total	0.651		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Tungsten (W)-Total	0.0293		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Uranium (U)-Total	0.0167		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-5 SP-FBH-09-R1-D Sampled By: Client on 19-SEP-20 @ 13:05 Matrix: Ground Water							
Total Metals							
Vanadium (V)-Total	0.132		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Zinc (Zn)-Total	0.255		0.030	mg/L	26-SEP-20	29-SEP-20	R5242420
Zirconium (Zr)-Total	0.0195		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.161		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	0.00061		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00135		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.171		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	0.029		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	54.0		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.00119		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00031		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00017		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.935		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	0.000061		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0051		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	13.6		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.0760		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.00105		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00062		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	2.93		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00483		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	6.34		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	12.4		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.567		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	3.85		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	<0.0039	DLM	0.0039	mg/L	25-SEP-20	25-SEP-20	R5241344

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-5 SP-FBH-09-R1-D Sampled By: Client on 19-SEP-20 @ 13:05 Matrix: Ground Water							
Dissolved Metals							
Tungsten (W)-Dissolved	0.00159		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000363		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	0.00142		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	0.0012		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00139		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Radiological Parameters							
Ra-226	0.230		0.010	Bq/L		22-OCT-20	R5268726
L2507954-6 SP-FBH-03-D Sampled By: Client on 19-SEP-20 @ 15:35 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	317		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	122		0.50	mg/L		02-OCT-20	
pH	7.98		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	3430		15	mg/L		25-SEP-20	R5238080
Total Dissolved Solids	305		40	mg/L		25-SEP-20	R5238160
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	185		2.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.235		0.0050	mg/L	26-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Chloride (Cl)	6.64		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Fluoride (F)	0.164		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrate (as N)	0.089		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5238018
Phosphorus (P)-Total	3.72		0.30	mg/L	01-OCT-20	02-OCT-20	R5244659
Silica, Reactive (as SiO2)	11.3		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	27.5		0.30	mg/L	25-SEP-20	25-SEP-20	R5238018
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				19-SEP-20	29-SEP-20	R5242174
Dissolved Organic Carbon	20.0	DLM	5.0	mg/L	19-SEP-20	02-OCT-20	R5245089
Total Metals							
Aluminum (Al)-Total	363		0.15	mg/L	30-SEP-20	01-OCT-20	R5243880
Antimony (Sb)-Total	0.0174		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Arsenic (As)-Total	0.278		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Barium (Ba)-Total	4.44		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Beryllium (Be)-Total	0.0167		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Bismuth (Bi)-Total	0.0921		0.00050	mg/L	30-SEP-20	30-SEP-20	R5243325
Boron (B)-Total	0.17	DLM	0.10	mg/L	30-SEP-20	30-SEP-20	R5243325
Cadmium (Cd)-Total	0.00131		0.000050	mg/L	30-SEP-20	30-SEP-20	R5243325

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-6 SP-FBH-03-D Sampled By: Client on 19-SEP-20 @ 15:35 Matrix: Ground Water							
Total Metals							
Calcium (Ca)-Total	1220		0.50	mg/L	30-SEP-20	30-SEP-20	R5243325
Cesium (Cs)-Total	0.0754		0.00010	mg/L	30-SEP-20	30-SEP-20	R5243325
Chromium (Cr)-Total	0.783		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Cobalt (Co)-Total	0.523		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Copper (Cu)-Total	1.27		0.0050	mg/L	30-SEP-20	30-SEP-20	R5243325
Iron (Fe)-Total	905		0.10	mg/L	30-SEP-20	30-SEP-20	R5243325
Lead (Pb)-Total	0.362		0.00050	mg/L	30-SEP-20	30-SEP-20	R5243325
Lithium (Li)-Total	0.369		0.010	mg/L	30-SEP-20	30-SEP-20	R5243325
Magnesium (Mg)-Total	480		0.050	mg/L	30-SEP-20	30-SEP-20	R5243325
Manganese (Mn)-Total	23.3		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Molybdenum (Mo)-Total	0.0753		0.00050	mg/L	30-SEP-20	30-SEP-20	R5243325
Nickel (Ni)-Total	1.43		0.0050	mg/L	30-SEP-20	30-SEP-20	R5243325
Phosphorus (P)-Total	21.7		0.50	mg/L	30-SEP-20	30-SEP-20	R5243325
Potassium (K)-Total	89.4		0.50	mg/L	30-SEP-20	30-SEP-20	R5243325
Rubidium (Rb)-Total	0.398		0.0020	mg/L	30-SEP-20	30-SEP-20	R5243325
Selenium (Se)-Total	0.0469		0.00050	mg/L	30-SEP-20	30-SEP-20	R5243325
Silicon (Si)-Total	482		1.0	mg/L	30-SEP-20	30-SEP-20	R5243325
Silver (Ag)-Total	0.0416		0.00010	mg/L	30-SEP-20	30-SEP-20	R5243325
Sodium (Na)-Total	59.4		0.50	mg/L	30-SEP-20	30-SEP-20	R5243325
Strontium (Sr)-Total	5.30		0.0020	mg/L	30-SEP-20	30-SEP-20	R5243325
Sulfur (S)-Total	40.1	DLM	5.0	mg/L	30-SEP-20	30-SEP-20	R5243325
Tellurium (Te)-Total	<0.0020	DLM	0.0020	mg/L	30-SEP-20	30-SEP-20	R5243325
Thallium (Tl)-Total	0.00570		0.00010	mg/L	30-SEP-20	30-SEP-20	R5243325
Thorium (Th)-Total	0.0735		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Tin (Sn)-Total	0.0116		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Titanium (Ti)-Total	4.06		0.0030	mg/L	30-SEP-20	30-SEP-20	R5243325
Tungsten (W)-Total	0.0680		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Uranium (U)-Total	0.0400		0.00010	mg/L	30-SEP-20	30-SEP-20	R5243325
Vanadium (V)-Total	0.646		0.0050	mg/L	30-SEP-20	30-SEP-20	R5243325
Zinc (Zn)-Total	3.03		0.030	mg/L	30-SEP-20	30-SEP-20	R5243325
Zirconium (Zr)-Total	0.121		0.0020	mg/L	30-SEP-20	30-SEP-20	R5243325
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0244		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	0.00021		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00553		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0170		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-6 SP-FBH-03-D Sampled By: Client on 19-SEP-20 @ 15:35 Matrix: Ground Water							
Dissolved Metals							
Cadmium (Cd)-Dissolved	0.0000051		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	38.3		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000034		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00014		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00019		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00133		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.131		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	0.000133		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0037		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	6.31		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.272		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.00846		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00058		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	2.56		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00192		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000155		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	5.54		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	18.6		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.215		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	12.5		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	0.00019		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	<0.00090	DLM	0.00090	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.00155		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.00107		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00025		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
L2507954-7 SP-FBH-11-D Sampled By: Client on 19-SEP-20 @ 16:54 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	600		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	280		0.50	mg/L		02-OCT-20	
pH	7.55		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	28800		30	mg/L		26-SEP-20	R5240401
Total Dissolved Solids	420		40	mg/L		25-SEP-20	R5238160

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-7 SP-FBH-11-D Sampled By: Client on 19-SEP-20 @ 16:54 Matrix: Ground Water							
Physical Tests							
Anions and Nutrients							
Acidity (as CaCO3)	8.2		5.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	372		5.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	3.31		0.050	mg/L	02-OCT-20	02-OCT-20	R5244232
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Chloride (Cl)	1.36		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Fluoride (F)	0.147		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrate (as N)	<0.020		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5238018
Phosphorus (P)-Total	83.8		7.5	mg/L	01-OCT-20	02-OCT-20	R5244659
Silica, Reactive (as SiO2)	14.5		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	4.11		0.30	mg/L	25-SEP-20	25-SEP-20	R5238018
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				19-SEP-20	29-SEP-20	R5242174
Dissolved Organic Carbon	27.7	DLM	5.0	mg/L	19-SEP-20	02-OCT-20	R5245089
Total Metals							
Aluminum (Al)-Total	762		0.15	mg/L	30-SEP-20	01-OCT-20	R5243880
Antimony (Sb)-Total	0.0215		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Arsenic (As)-Total	0.259		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Barium (Ba)-Total	3.97		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Beryllium (Be)-Total	0.0318		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Bismuth (Bi)-Total	0.0247		0.00050	mg/L	30-SEP-20	30-SEP-20	R5243325
Boron (B)-Total	0.17	DLM	0.10	mg/L	30-SEP-20	30-SEP-20	R5243325
Cadmium (Cd)-Total	0.00303		0.000050	mg/L	30-SEP-20	30-SEP-20	R5243325
Calcium (Ca)-Total	931		0.50	mg/L	30-SEP-20	30-SEP-20	R5243325
Cesium (Cs)-Total	0.181		0.00010	mg/L	30-SEP-20	30-SEP-20	R5243325
Chromium (Cr)-Total	11.4		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Cobalt (Co)-Total	0.769		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Copper (Cu)-Total	5.18		0.0050	mg/L	30-SEP-20	30-SEP-20	R5243325
Iron (Fe)-Total	1010		0.10	mg/L	30-SEP-20	30-SEP-20	R5243325
Lead (Pb)-Total	0.167		0.00050	mg/L	30-SEP-20	30-SEP-20	R5243325
Lithium (Li)-Total	1.25		0.010	mg/L	30-SEP-20	30-SEP-20	R5243325
Magnesium (Mg)-Total	987		0.050	mg/L	30-SEP-20	30-SEP-20	R5243325
Manganese (Mn)-Total	24.3		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Molybdenum (Mo)-Total	0.0240		0.00050	mg/L	30-SEP-20	30-SEP-20	R5243325
Nickel (Ni)-Total	4.43		0.0050	mg/L	30-SEP-20	30-SEP-20	R5243325
Phosphorus (P)-Total	51.8		0.50	mg/L	30-SEP-20	30-SEP-20	R5243325
Potassium (K)-Total	48.9		0.50	mg/L	30-SEP-20	30-SEP-20	R5243325
Rubidium (Rb)-Total	0.359		0.0020	mg/L	30-SEP-20	30-SEP-20	R5243325
Selenium (Se)-Total	0.00534		0.00050	mg/L	30-SEP-20	30-SEP-20	R5243325

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-7 SP-FBH-11-D Sampled By: Client on 19-SEP-20 @ 16:54 Matrix: Ground Water							
Total Metals							
Silicon (Si)-Total	896		5.0	mg/L	30-SEP-20	01-OCT-20	R5243880
Silver (Ag)-Total	0.0659		0.00010	mg/L	30-SEP-20	30-SEP-20	R5243325
Sodium (Na)-Total	32.5		0.50	mg/L	30-SEP-20	30-SEP-20	R5243325
Strontium (Sr)-Total	3.00		0.0020	mg/L	30-SEP-20	30-SEP-20	R5243325
Sulfur (S)-Total	24.1	DLM	5.0	mg/L	30-SEP-20	30-SEP-20	R5243325
Tellurium (Te)-Total	0.0036	DLM	0.0020	mg/L	30-SEP-20	30-SEP-20	R5243325
Thallium (Tl)-Total	0.00272		0.00010	mg/L	30-SEP-20	30-SEP-20	R5243325
Thorium (Th)-Total	0.121		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Tin (Sn)-Total	0.0052	DLM	0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Titanium (Ti)-Total	7.10		0.0030	mg/L	30-SEP-20	30-SEP-20	R5243325
Tungsten (W)-Total	0.297		0.0010	mg/L	30-SEP-20	30-SEP-20	R5243325
Uranium (U)-Total	0.0868		0.00010	mg/L	30-SEP-20	30-SEP-20	R5243325
Vanadium (V)-Total	2.06		0.0050	mg/L	30-SEP-20	30-SEP-20	R5243325
Zinc (Zn)-Total	2.10		0.030	mg/L	30-SEP-20	30-SEP-20	R5243325
Zirconium (Zr)-Total	0.152		0.0020	mg/L	30-SEP-20	30-SEP-20	R5243325
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0051		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	0.00032		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00343		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.574		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	0.023		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	81.0		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000982		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00046		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00028		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00043		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	2.74		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0118		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	18.9		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.263		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.00114		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00079		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	4.50		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-7 SP-FBH-11-D Sampled By: Client on 19-SEP-20 @ 16:54 Matrix: Ground Water							
Dissolved Metals							
Rubidium (Rb)-Dissolved	0.00351		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000085		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	10.5		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	12.7		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.405		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	1.52		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	0.00019		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	0.00056		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.00288		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000168		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	0.00098		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	0.0012		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00129		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
L2507954-8 SPFBH-07-R1-D Sampled By: Client on 19-SEP-20 @ 17:45 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	358		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	143		0.50	mg/L		02-OCT-20	
pH	7.88		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	55300		75	mg/L		26-SEP-20	R5240401
Total Dissolved Solids	306		80	mg/L		25-SEP-20	R5238160
Anions and Nutrients							
Acidity (as CaCO3)	<5.0	DLM	5.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	267		5.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.073		0.025	mg/L	26-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Chloride (Cl)	0.49		0.17	mg/L	25-SEP-20	25-SEP-20	R5238018
Fluoride (F)	0.148		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrate (as N)	<0.020		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5238018
Phosphorus (P)-Total	61.0		7.5	mg/L	01-OCT-20	02-OCT-20	R5244659
Silica, Reactive (as SiO2)	9.7		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	8.97		0.30	mg/L	25-SEP-20	25-SEP-20	R5238018
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				19-SEP-20	29-SEP-20	R5242175

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-8 SPFBH-07-R1-D Sampled By: Client on 19-SEP-20 @ 17:45 Matrix: Ground Water							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<5.0	DLM	5.0	mg/L	19-SEP-20	06-OCT-20	R5250757
Total Metals							
Aluminum (Al)-Total	15.4		0.12	mg/L	26-SEP-20	01-OCT-20	R5243880
Antimony (Sb)-Total	0.0189		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Arsenic (As)-Total	0.247		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Barium (Ba)-Total	5.34		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Beryllium (Be)-Total	0.0265		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Bismuth (Bi)-Total	0.0156		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Boron (B)-Total	0.28		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Cadmium (Cd)-Total	0.00829		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Calcium (Ca)-Total	1710		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Cesium (Cs)-Total	0.123		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Chromium (Cr)-Total	1.07		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cobalt (Co)-Total	0.762		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Copper (Cu)-Total	3.83		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Iron (Fe)-Total	1680		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Lead (Pb)-Total	0.620		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Lithium (Li)-Total	0.695		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Magnesium (Mg)-Total	481		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Manganese (Mn)-Total	43.5		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Molybdenum (Mo)-Total	0.0349		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Nickel (Ni)-Total	0.507		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Phosphorus (P)-Total	45.0		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Potassium (K)-Total	78.9		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Rubidium (Rb)-Total	0.369		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Selenium (Se)-Total	0.00559		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Silicon (Si)-Total	629		2.0	mg/L	26-SEP-20	30-SEP-20	R5243325
Silver (Ag)-Total	0.447		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Sodium (Na)-Total	77.9		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Strontium (Sr)-Total	7.32		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Sulfur (S)-Total	46.3		5.0	mg/L	26-SEP-20	29-SEP-20	R5242420
Tellurium (Te)-Total	<0.0020	DLM	0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Thallium (Tl)-Total	0.00800		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Thorium (Th)-Total	0.235		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Tin (Sn)-Total	0.0084		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Titanium (Ti)-Total	1.92		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Tungsten (W)-Total	0.258		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Uranium (U)-Total	0.0353		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Vanadium (V)-Total	0.959		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Zinc (Zn)-Total	4.35		0.030	mg/L	26-SEP-20	29-SEP-20	R5242420
Zirconium (Zr)-Total	0.0595		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-8 SPFBH-07-R1-D Sampled By: Client on 19-SEP-20 @ 17:45 Matrix: Ground Water							
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0316		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	0.00058		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00057		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0104		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	0.012		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	0.0000091		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	41.9		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000072		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00012		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00067		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00165		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.111		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	0.000051		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0029		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	9.28		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.153		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.00254		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00058		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	1.09		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00144		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000078		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	5.13		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	0.000013		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	11.0		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.150		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	3.23		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	0.000016		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	<0.00066	DLM	0.00066	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.0111		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000900		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	0.0011		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-8 SPFBH-07-R1-D Sampled By: Client on 19-SEP-20 @ 17:45 Matrix: Ground Water							
Dissolved Metals							
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
L2507954-9 SP-GW-MW2 Sampled By: Client on 20-SEP-20 @ 10:00 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	562		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	301		0.50	mg/L		30-SEP-20	
pH	7.65		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	4440		15	mg/L		25-SEP-20	R5238080
Total Dissolved Solids	496		40	mg/L		25-SEP-20	R5238160
Anions and Nutrients							
Acidity (as CaCO3)	13.3		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	872		2.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.0462		0.0050	mg/L	26-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	26-SEP-20	R5240060
Chloride (Cl)	0.13		0.10	mg/L	25-SEP-20	26-SEP-20	R5240060
Fluoride (F)	0.070		0.020	mg/L	25-SEP-20	26-SEP-20	R5240060
Nitrate (as N)	<0.020		0.020	mg/L	25-SEP-20	26-SEP-20	R5240060
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	26-SEP-20	R5240060
Phosphorus (P)-Total	2.64		0.75	mg/L	29-SEP-20	30-SEP-20	R5242822
Silica, Reactive (as SiO2)	16.9		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	5.86		0.30	mg/L	25-SEP-20	26-SEP-20	R5240060
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				19-SEP-20	29-SEP-20	R5242175
Dissolved Organic Carbon	<5.0	DLM	5.0	mg/L	19-SEP-20	06-OCT-20	R5250757
Total Metals							
Aluminum (Al)-Total	108		0.030	mg/L	26-SEP-20	29-SEP-20	R5242420
Antimony (Sb)-Total	<0.0010	DLM	0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Arsenic (As)-Total	0.0186		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Barium (Ba)-Total	0.849		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Beryllium (Be)-Total	0.0032		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Bismuth (Bi)-Total	0.00081		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Boron (B)-Total	<0.10	DLM	0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Cadmium (Cd)-Total	0.000773		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Calcium (Ca)-Total	510		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Cesium (Cs)-Total	0.0114		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Chromium (Cr)-Total	0.200		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cobalt (Co)-Total	0.0570		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Copper (Cu)-Total	0.141		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Iron (Fe)-Total	121		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-9 SP-GW-MW2 Sampled By: Client on 20-SEP-20 @ 10:00 Matrix: Ground Water							
Total Metals							
Lead (Pb)-Total	0.0460		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Lithium (Li)-Total	0.127		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Magnesium (Mg)-Total	134		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Manganese (Mn)-Total	2.37		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Molybdenum (Mo)-Total	0.00122		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Nickel (Ni)-Total	0.150		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Phosphorus (P)-Total	3.72		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Potassium (K)-Total	30.0		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Rubidium (Rb)-Total	0.222		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Selenium (Se)-Total	0.00083		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Silicon (Si)-Total	210		1.0	mg/L	26-SEP-20	29-SEP-20	R5242420
Silver (Ag)-Total	0.00049		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Sodium (Na)-Total	15.6		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Strontium (Sr)-Total	0.596		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Sulfur (S)-Total	<5.0	DLM	5.0	mg/L	26-SEP-20	29-SEP-20	R5242420
Tellurium (Te)-Total	<0.0020	DLM	0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Thallium (Tl)-Total	0.00139		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Thorium (Th)-Total	0.0473		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Tin (Sn)-Total	0.0032		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Titanium (Ti)-Total	6.70		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Tungsten (W)-Total	<0.0010	DLM	0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Uranium (U)-Total	0.00406		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Vanadium (V)-Total	0.226		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Zinc (Zn)-Total	0.344		0.030	mg/L	26-SEP-20	29-SEP-20	R5242420
Zirconium (Zr)-Total	0.0399		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0035		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00023		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0314		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	0.011		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	0.0000051		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	86.8		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00013		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00012		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00355		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-9 SP-GW-MW2 Sampled By: Client on 20-SEP-20 @ 10:00 Matrix: Ground Water							
Dissolved Metals							
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	0.000146		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0059		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	20.4		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.0367		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.000703		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00086		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	1.10		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00081		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	8.31		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	2.97		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.0967		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	2.10		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	0.00016		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000433		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	0.00103		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	0.0025		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
L2507954-10 SP-FBH-02-D Sampled By: Client on 20-SEP-20 @ 11:05 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	293		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	134		0.50	mg/L		01-OCT-20	
pH	7.79		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	489		7.5	mg/L		25-SEP-20	R5238080
Total Dissolved Solids	229		20	mg/L		25-SEP-20	R5238160
Anions and Nutrients							
Acidity (as CaCO3)	3.3		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	176		2.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.162		0.0050	mg/L	26-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	26-SEP-20	R5240060
Chloride (Cl)	1.46		0.10	mg/L	25-SEP-20	26-SEP-20	R5240060

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-10 SP-FBH-02-D Sampled By: Client on 20-SEP-20 @ 11:05 Matrix: Ground Water							
Anions and Nutrients							
Fluoride (F)	0.147		0.020	mg/L	25-SEP-20	26-SEP-20	R5240060
Nitrate (as N)	<0.020		0.020	mg/L	25-SEP-20	26-SEP-20	R5240060
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	26-SEP-20	R5240060
Phosphorus (P)-Total	0.171		0.015	mg/L	01-OCT-20	02-OCT-20	R5244659
Silica, Reactive (as SiO2)	12.6		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	9.10		0.30	mg/L	25-SEP-20	26-SEP-20	R5240060
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				19-SEP-20	29-SEP-20	R5242175
Dissolved Organic Carbon	<5.0	DLM	5.0	mg/L	19-SEP-20	06-OCT-20	R5250757
Total Metals							
Aluminum (Al)-Total	6.89		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Antimony (Sb)-Total	0.00169		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Arsenic (As)-Total	0.0108		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Barium (Ba)-Total	0.0799		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Beryllium (Be)-Total	0.00017		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Bismuth (Bi)-Total	0.000078		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Boron (B)-Total	0.011		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cadmium (Cd)-Total	0.0000987		0.0000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Calcium (Ca)-Total	52.2		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Cesium (Cs)-Total	0.000575		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Chromium (Cr)-Total	0.0183		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cobalt (Co)-Total	0.00558		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Copper (Cu)-Total	0.0122		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Iron (Fe)-Total	15.4		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Lead (Pb)-Total	0.00548		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Lithium (Li)-Total	0.0081		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Magnesium (Mg)-Total	12.2		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Manganese (Mn)-Total	0.438		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Molybdenum (Mo)-Total	0.00182		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Nickel (Ni)-Total	0.0225		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Phosphorus (P)-Total	0.168		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Potassium (K)-Total	2.96		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Rubidium (Rb)-Total	0.00468		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Selenium (Se)-Total	0.000181		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Silicon (Si)-Total	13.5		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Silver (Ag)-Total	0.000372		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Sodium (Na)-Total	6.36		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Strontium (Sr)-Total	0.152		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Sulfur (S)-Total	3.80		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-10 SP-FBH-02-D Sampled By: Client on 20-SEP-20 @ 11:05 Matrix: Ground Water							
Total Metals							
Thallium (Tl)-Total	0.000039		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Thorium (Th)-Total	0.00234		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Tin (Sn)-Total	0.00046		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Titanium (Ti)-Total	0.0484		0.00030	mg/L	26-SEP-20	29-SEP-20	R5242420
Tungsten (W)-Total	0.00184		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Uranium (U)-Total	0.00136		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Vanadium (V)-Total	0.00913		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Zinc (Zn)-Total	0.0337		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Zirconium (Zr)-Total	0.00377		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0120		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	0.00091		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00103		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0349		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	0.013		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	38.7		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000029		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00015		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00018		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.193		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0028		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	9.11		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.160		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	0.0000051		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.00135		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00057		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	2.26		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00131		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000092		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	5.91		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	10.8	DTC	0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.127		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-10 SP-FBH-02-D Sampled By: Client on 20-SEP-20 @ 11:05 Matrix: Ground Water							
Dissolved Metals							
Sulfur (S)-Dissolved	5.09		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	0.00012		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.00119		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000986		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00170		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
L2507954-11 SP-FBH-01-D Sampled By: Client on 20-SEP-20 @ 11:44 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	420		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	210		0.50	mg/L		30-SEP-20	
pH	7.92		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	5080		15	mg/L		25-SEP-20	R5238080
Total Dissolved Solids	381		40	mg/L		25-SEP-20	R5238160
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	487		2.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.0124		0.0050	mg/L	26-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	26-SEP-20	R5240060
Chloride (Cl)	0.31		0.10	mg/L	26-SEP-20	26-SEP-20	R5240060
Fluoride (F)	0.059		0.020	mg/L	25-SEP-20	26-SEP-20	R5240060
Nitrate (as N)	<0.020		0.020	mg/L	25-SEP-20	26-SEP-20	R5240060
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	26-SEP-20	R5240060
Phosphorus (P)-Total	5.10		0.30	mg/L	01-OCT-20	02-OCT-20	R5244659
Silica, Reactive (as SiO2)	10.2		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	3.14		0.30	mg/L	25-SEP-20	26-SEP-20	R5240060
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				20-SEP-20	29-SEP-20	R5242175
Dissolved Organic Carbon	5.4	DLM	5.0	mg/L	20-SEP-20	06-OCT-20	R5250757
Total Metals							
Aluminum (Al)-Total	118		0.030	mg/L	26-SEP-20	29-SEP-20	R5242420
Antimony (Sb)-Total	0.0083		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Arsenic (As)-Total	0.0628		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Barium (Ba)-Total	0.916		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-11 SP-FBH-01-D Sampled By: Client on 20-SEP-20 @ 11:44 Matrix: Ground Water							
Total Metals							
Beryllium (Be)-Total	0.0018		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Bismuth (Bi)-Total	<0.00050	DLM	0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Boron (B)-Total	<0.10	DLM	0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Cadmium (Cd)-Total	0.000875		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Calcium (Ca)-Total	322		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Cesium (Cs)-Total	0.0380		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Chromium (Cr)-Total	0.354		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cobalt (Co)-Total	0.0961		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Copper (Cu)-Total	0.270		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Iron (Fe)-Total	161		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Lead (Pb)-Total	0.0713		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Lithium (Li)-Total	0.100		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Magnesium (Mg)-Total	102		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Manganese (Mn)-Total	5.16		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Molybdenum (Mo)-Total	0.00311		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Nickel (Ni)-Total	0.218		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Phosphorus (P)-Total	3.91		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Potassium (K)-Total	35.2		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Rubidium (Rb)-Total	0.147		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Selenium (Se)-Total	0.00292		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Silicon (Si)-Total	190		1.0	mg/L	26-SEP-20	29-SEP-20	R5242420
Silver (Ag)-Total	0.0114		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Sodium (Na)-Total	14.9		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Strontium (Sr)-Total	1.01		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Sulfur (S)-Total	<5.0	DLM	5.0	mg/L	26-SEP-20	29-SEP-20	R5242420
Tellurium (Te)-Total	<0.0020	DLM	0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Thallium (Tl)-Total	0.00142		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Thorium (Th)-Total	0.0201		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Tin (Sn)-Total	0.0029		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Titanium (Ti)-Total	10.4		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Tungsten (W)-Total	0.0485		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Uranium (U)-Total	0.00601		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Vanadium (V)-Total	0.532		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Zinc (Zn)-Total	0.295		0.030	mg/L	26-SEP-20	29-SEP-20	R5242420
Zirconium (Zr)-Total	0.0527		0.0020	mg/L	26-SEP-20	29-SEP-20	R5242420
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242335
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0232		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	0.00040		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00198		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-11 SP-FBH-01-D Sampled By: Client on 20-SEP-20 @ 11:44 Matrix: Ground Water							
Dissolved Metals							
Barium (Ba)-Dissolved	0.0319		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	0.0000162		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	72.1		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000102		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00021		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00020		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00420		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.072		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0017		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	7.35		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.0545		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	0.0000072		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242529
Molybdenum (Mo)-Dissolved	0.000672		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00052		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	2.53		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00333		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000070		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	4.54		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	1.93		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.187		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	1.00		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	0.00063		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.00276		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000349		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00075		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Radiological Parameters							
Ra-226	0.160		0.010	Bq/L		22-OCT-20	R5268726
L2507954-12 SP-GW-DUP-1 Sampled By: Client on 20-SEP-20 Matrix: Ground Water							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-12 SP-GW-DUP-1 Sampled By: Client on 20-SEP-20 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	297		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	134		0.50	mg/L		01-OCT-20	
pH	7.82		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	602		7.5	mg/L		25-SEP-20	R5238080
Total Dissolved Solids	227		20	mg/L		25-SEP-20	R5238160
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	179		2.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.161		0.0050	mg/L	26-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	26-SEP-20	R5240060
Chloride (Cl)	1.67		0.10	mg/L	26-SEP-20	26-SEP-20	R5240060
Fluoride (F)	0.145		0.020	mg/L	25-SEP-20	26-SEP-20	R5240060
Nitrate (as N)	<0.020		0.020	mg/L	25-SEP-20	26-SEP-20	R5240060
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	26-SEP-20	R5240060
Phosphorus (P)-Total	0.164		0.015	mg/L	01-OCT-20	02-OCT-20	R5244659
Silica, Reactive (as SiO2)	12.4		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	10.5		0.30	mg/L	25-SEP-20	26-SEP-20	R5240060
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				20-SEP-20	29-SEP-20	R5242175
Dissolved Organic Carbon	<5.0	DLM	5.0	mg/L	20-SEP-20	06-OCT-20	R5250757
Total Metals							
Aluminum (Al)-Total	6.76		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Antimony (Sb)-Total	0.00143		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Arsenic (As)-Total	0.00891		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Barium (Ba)-Total	0.0803		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Beryllium (Be)-Total	0.00016		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Bismuth (Bi)-Total	0.000077		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Boron (B)-Total	0.010		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cadmium (Cd)-Total	0.000102		0.0000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Calcium (Ca)-Total	53.8		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Cesium (Cs)-Total	0.000519		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Chromium (Cr)-Total	0.0176		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cobalt (Co)-Total	0.00497		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Copper (Cu)-Total	0.0122		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Iron (Fe)-Total	14.0		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Lead (Pb)-Total	0.00538		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Lithium (Li)-Total	0.0085		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Magnesium (Mg)-Total	12.7		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Manganese (Mn)-Total	0.445		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Molybdenum (Mo)-Total	0.00154		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-12 SP-GW-DUP-1 Sampled By: Client on 20-SEP-20 Matrix: Ground Water							
Total Metals							
Nickel (Ni)-Total	0.0203		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Phosphorus (P)-Total	0.157		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Potassium (K)-Total	2.98		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Rubidium (Rb)-Total	0.00441		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Selenium (Se)-Total	0.000105		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Silicon (Si)-Total	13.3		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Silver (Ag)-Total	0.000350		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Sodium (Na)-Total	6.42		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Strontium (Sr)-Total	0.150		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Sulfur (S)-Total	3.58		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Thallium (Tl)-Total	0.000039		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Thorium (Th)-Total	0.00215		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Tin (Sn)-Total	0.00062		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Titanium (Ti)-Total	0.0441		0.00030	mg/L	26-SEP-20	29-SEP-20	R5242420
Tungsten (W)-Total	0.00147		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Uranium (U)-Total	0.00130		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Vanadium (V)-Total	0.00890		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Zinc (Zn)-Total	0.0361		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Zirconium (Zr)-Total	0.00279		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242336
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0097		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	0.00089		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00098		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0339		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	0.012		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	0.0000051		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	38.3		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000028		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00011		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00018		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.187		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0028		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	9.26		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.162		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-12 SP-GW-DUP-1 Sampled By: Client on 20-SEP-20 Matrix: Ground Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242533
Molybdenum (Mo)-Dissolved	0.00135		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00060		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	2.29		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00124		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000062		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	5.76		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	11.0	DTC	0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.129		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	4.77		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	0.00012		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.00119		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000992		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00175		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
L2507954-13 SP-FBH-12-D Sampled By: Client on 20-SEP-20 @ 14:45 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	369		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	192		0.50	mg/L		30-SEP-20	
pH	7.77		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	27.5		3.0	mg/L		25-SEP-20	R5238080
Total Dissolved Solids	254		20	mg/L		25-SEP-20	R5238160
Anions and Nutrients							
Acidity (as CaCO3)	3.0		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	247		2.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.613		0.025	mg/L	02-OCT-20	02-OCT-20	R5244232
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Chloride (Cl)	0.40		0.17	mg/L	25-SEP-20	25-SEP-20	R5238018
Fluoride (F)	0.073		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrate (as N)	<0.020		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5238018
Phosphorus (P)-Total	0.0492		0.0030	mg/L	29-SEP-20	30-SEP-20	R5242822
Silica, Reactive (as SiO2)	12.9		1.0	mg/L		05-OCT-20	R5245202

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-13 SP-FBH-12-D Sampled By: Client on 20-SEP-20 @ 14:45 Matrix: Ground Water							
Anions and Nutrients							
Sulfate (SO4)	0.70		0.63	mg/L	25-SEP-20	25-SEP-20	R5238018
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				20-SEP-20	29-SEP-20	R5242175
Dissolved Organic Carbon	21.7	DLM	5.0	mg/L	20-SEP-20	06-OCT-20	R5250757
Total Metals							
Aluminum (Al)-Total	1.70		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Antimony (Sb)-Total	0.00049		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Arsenic (As)-Total	0.00201		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Barium (Ba)-Total	0.0532		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Beryllium (Be)-Total	0.00011		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Boron (B)-Total	<0.010		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cadmium (Cd)-Total	0.0000194		0.0000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Calcium (Ca)-Total	60.2		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Cesium (Cs)-Total	0.000205		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Chromium (Cr)-Total	0.00540		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cobalt (Co)-Total	0.00109		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Copper (Cu)-Total	0.00290		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Iron (Fe)-Total	3.88		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Lead (Pb)-Total	0.00166		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Lithium (Li)-Total	0.0037		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Magnesium (Mg)-Total	10.3		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Manganese (Mn)-Total	0.206		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Molybdenum (Mo)-Total	0.000250		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Nickel (Ni)-Total	0.00263		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Phosphorus (P)-Total	0.059		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Potassium (K)-Total	2.08		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Rubidium (Rb)-Total	0.00230		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Selenium (Se)-Total	0.000099		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Silicon (Si)-Total	8.31		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Silver (Ag)-Total	0.000127		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Sodium (Na)-Total	3.46		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Strontium (Sr)-Total	0.179		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Sulfur (S)-Total	<0.50		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Thorium (Th)-Total	0.00068		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Tin (Sn)-Total	0.00021		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Titanium (Ti)-Total	0.0143		0.00030	mg/L	26-SEP-20	29-SEP-20	R5242420
Tungsten (W)-Total	0.00094		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-13 SP-FBH-12-D Sampled By: Client on 20-SEP-20 @ 14:45 Matrix: Ground Water							
Total Metals							
Uranium (U)-Total	0.000564		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Vanadium (V)-Total	0.00529		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Zinc (Zn)-Total	0.0080		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Zirconium (Zr)-Total	0.00442		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242336
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0244		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	0.00038		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00040		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0504		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Calcium (Ca)-Dissolved	61.1		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000070		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00032		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00019		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	0.00023		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	1.14		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0027		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	9.46		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.165		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242533
Molybdenum (Mo)-Dissolved	0.000189		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	1.97		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00168		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000146		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	6.20		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	3.52		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.171		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-13 SP-FBH-12-D Sampled By: Client on 20-SEP-20 @ 14:45 Matrix: Ground Water							
Dissolved Metals							
Titanium (Ti)-Dissolved	0.00120		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.00038		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000437		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	0.00098		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00423		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
L2507954-14 SP-FBH-04-D Sampled By: Client on 20-SEP-20 @ 17:10 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	379		1.0	uS/cm		25-SEP-20	R5237963
Hardness (as CaCO3)	166		0.50	mg/L		01-OCT-20	
pH	7.87		0.10	pH		25-SEP-20	R5237963
Total Suspended Solids	358		3.0	mg/L		25-SEP-20	R5238080
Total Dissolved Solids	258		20	mg/L		25-SEP-20	R5238160
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-SEP-20	R5240716
Alkalinity, Total (as CaCO3)	239		2.0	mg/L		25-SEP-20	R5237963
Ammonia, Total (as N)	0.276		0.0050	mg/L	26-SEP-20	30-SEP-20	R5243069
Bromide (Br)	<0.10		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Chloride (Cl)	1.79		0.10	mg/L	25-SEP-20	25-SEP-20	R5238018
Fluoride (F)	0.111		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrate (as N)	<0.020		0.020	mg/L	25-SEP-20	25-SEP-20	R5238018
Nitrite (as N)	<0.010		0.010	mg/L	25-SEP-20	25-SEP-20	R5238018
Phosphorus (P)-Total	0.289		0.030	mg/L	01-OCT-20	02-OCT-20	R5244659
Silica, Reactive (as SiO2)	13.6		1.0	mg/L		05-OCT-20	R5245202
Sulfate (SO4)	8.02		0.30	mg/L	25-SEP-20	25-SEP-20	R5238018
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		29-SEP-20	R5242373
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				20-SEP-20	29-SEP-20	R5242175
Dissolved Organic Carbon	5.2	DLM	5.0	mg/L	20-SEP-20	06-OCT-20	R5250757
Total Metals							
Aluminum (Al)-Total	8.88		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Antimony (Sb)-Total	0.00236		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Arsenic (As)-Total	0.00939		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Barium (Ba)-Total	0.0760		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Beryllium (Be)-Total	0.00057		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Bismuth (Bi)-Total	0.000112		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Boron (B)-Total	0.082		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cadmium (Cd)-Total	0.0000572		0.0000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Calcium (Ca)-Total	69.7		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-14 SP-FBH-04-D Sampled By: Client on 20-SEP-20 @ 17:10 Matrix: Ground Water							
Total Metals							
Cesium (Cs)-Total	0.00162		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Chromium (Cr)-Total	0.0239		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Cobalt (Co)-Total	0.00837		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Copper (Cu)-Total	0.0187		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Iron (Fe)-Total	12.7		0.010	mg/L	26-SEP-20	29-SEP-20	R5242420
Lead (Pb)-Total	0.00407		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Lithium (Li)-Total	0.0137		0.0010	mg/L	26-SEP-20	29-SEP-20	R5242420
Magnesium (Mg)-Total	11.4		0.0050	mg/L	26-SEP-20	29-SEP-20	R5242420
Manganese (Mn)-Total	0.499		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Molybdenum (Mo)-Total	0.00274		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Nickel (Ni)-Total	0.0241		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Phosphorus (P)-Total	0.088		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Potassium (K)-Total	3.64		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Rubidium (Rb)-Total	0.0102		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Selenium (Se)-Total	0.000998		0.000050	mg/L	26-SEP-20	29-SEP-20	R5242420
Silicon (Si)-Total	18.1		0.10	mg/L	26-SEP-20	29-SEP-20	R5242420
Silver (Ag)-Total	0.000241		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Sodium (Na)-Total	17.0		0.050	mg/L	26-SEP-20	29-SEP-20	R5242420
Strontium (Sr)-Total	0.345		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Sulfur (S)-Total	3.44		0.50	mg/L	26-SEP-20	29-SEP-20	R5242420
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Thallium (Tl)-Total	0.000074		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Thorium (Th)-Total	0.00290		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Tin (Sn)-Total	0.00111		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Titanium (Ti)-Total	0.109		0.00030	mg/L	26-SEP-20	29-SEP-20	R5242420
Tungsten (W)-Total	0.00184		0.00010	mg/L	26-SEP-20	29-SEP-20	R5242420
Uranium (U)-Total	0.00156		0.000010	mg/L	26-SEP-20	29-SEP-20	R5242420
Vanadium (V)-Total	0.0373		0.00050	mg/L	26-SEP-20	29-SEP-20	R5242420
Zinc (Zn)-Total	0.0323		0.0030	mg/L	26-SEP-20	29-SEP-20	R5242420
Zirconium (Zr)-Total	0.00102		0.00020	mg/L	26-SEP-20	29-SEP-20	R5242420
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					30-SEP-20	R5242336
Dissolved Metals Filtration Location	FIELD					25-SEP-20	R5237076
Aluminum (Al)-Dissolved	0.0063		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Antimony (Sb)-Dissolved	0.00197		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Arsenic (As)-Dissolved	0.00218		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Barium (Ba)-Dissolved	0.0465		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Boron (B)-Dissolved	0.082		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2507954-14 SP-FBH-04-D Sampled By: Client on 20-SEP-20 @ 17:10 Matrix: Ground Water							
Dissolved Metals							
Calcium (Ca)-Dissolved	53.4		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Cesium (Cs)-Dissolved	0.000055		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Chromium (Cr)-Dissolved	0.00012		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Cobalt (Co)-Dissolved	0.00038		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Iron (Fe)-Dissolved	0.053		0.010	mg/L	25-SEP-20	25-SEP-20	R5241344
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Lithium (Li)-Dissolved	0.0045		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Magnesium (Mg)-Dissolved	7.83		0.0050	mg/L	25-SEP-20	25-SEP-20	R5241344
Manganese (Mn)-Dissolved	0.186		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	30-SEP-20	30-SEP-20	R5242533
Molybdenum (Mo)-Dissolved	0.00213		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Nickel (Ni)-Dissolved	0.00130		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Potassium (K)-Dissolved	2.33		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Rubidium (Rb)-Dissolved	0.00210		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Selenium (Se)-Dissolved	0.000267		0.000050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silicon (Si)-Dissolved	6.16		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Silver (Ag)-Dissolved	<0.00010	DLM	0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Sodium (Na)-Dissolved	14.7		0.050	mg/L	25-SEP-20	25-SEP-20	R5241344
Strontium (Sr)-Dissolved	0.316		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Sulfur (S)-Dissolved	2.49		0.50	mg/L	25-SEP-20	25-SEP-20	R5241344
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Tin (Sn)-Dissolved	0.00017		0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	25-SEP-20	25-SEP-20	R5241344
Tungsten (W)-Dissolved	0.00391	DTC	0.00010	mg/L	25-SEP-20	25-SEP-20	R5241344
Uranium (U)-Dissolved	0.000614		0.000010	mg/L	25-SEP-20	25-SEP-20	R5241344
Vanadium (V)-Dissolved	0.00119		0.00050	mg/L	25-SEP-20	25-SEP-20	R5241344
Zinc (Zn)-Dissolved	0.0011		0.0010	mg/L	25-SEP-20	25-SEP-20	R5241344
Zirconium (Zr)-Dissolved	0.00045		0.00020	mg/L	25-SEP-20	25-SEP-20	R5241344

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Sulfate (SO4)	B	L2507954-10, -11, -12, -9
Method Blank	Chloride (Cl)	MB-LOR	L2507954-13, -14, -2, -3, -4, -5, -6, -7, -8
Method Blank	Sulfate (SO4)	MB-LOR	L2507954-13, -14, -2, -3, -4, -5, -6, -7, -8
Laboratory Control Sample	Iron (Fe)-Dissolved	MES	L2507954-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Laboratory Control Sample	Iron (Fe)-Total	MES	L2507954-1, -3, -4
Laboratory Control Sample	Iron (Fe)-Total	MES	L2507954-10, -11, -12, -13, -14, -2, -5, -8, -9
Laboratory Control Sample	Iron (Fe)-Total	MES	L2507954-6, -7
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2507954-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2507954-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2507954-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2507954-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2507954-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2507954-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Aluminum (Al)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Arsenic (As)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Barium (Ba)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2507954-6, -7
Matrix Spike	Cesium (Cs)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Chromium (Cr)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Cobalt (Co)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Copper (Cu)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Iron (Fe)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Lead (Pb)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Lithium (Li)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2507954-6, -7
Matrix Spike	Manganese (Mn)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Nickel (Ni)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Potassium (K)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Rubidium (Rb)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Silicon (Si)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Sodium (Na)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Strontium (Sr)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Strontium (Sr)-Total	MS-B	L2507954-6, -7
Matrix Spike	Titanium (Ti)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Uranium (U)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Vanadium (V)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Zinc (Zn)-Total	MS-B	L2507954-1, -3, -4
Matrix Spike	Phosphorus (P)-Total	MS-B	L2507954-1, -9
Matrix Spike	Phosphorus (P)-Total	MS-B	L2507954-10, -11, -12, -14, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Silica, Reactive (as SiO2)	MS-B	L2507954-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L2507954-10, -11, -12, -9

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).

Reference Information

DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-TOT-WT	Water	Cyanide, Total	ISO 14403-2
Total cyanide is determined by the combination of UV digestion and distillation. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.			
When using this method, high levels of thiocyanate in samples can cause false positives at ~1-2% of the thiocyanate concentration. For samples with detectable cyanide analyzed by this method, ALS recommends analysis for thiocyanate to check for this potential interference			
DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B
Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.			
EC-TITR-TB	Water	Conductivity	APHA 2510 B
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)
Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).			
MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)
Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)
Ammonia is determined by Flow-injection analysis with fluorescence detection			

Reference Information

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

RA226-MMER-BE	Water	Radium 226	Radium Isotopes by Alpha Spectrometry

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

SIO2-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
BE	BECQUEREL LABORATORIES INC. - MISSISSAUGA, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Contact: David Mchaina

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5240716								
WG3412336-3 DUP		**L2507954-2**						
Acidity (as CaCO3)		12.5	9.3	J	mg/L	3.2	4	27-SEP-20
WG3412336-2 LCS								
Acidity (as CaCO3)			106.5		%		85-115	27-SEP-20
WG3412967-2 LCS								
Acidity (as CaCO3)			109.9		%		85-115	27-SEP-20
WG3412336-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	27-SEP-20
WG3412967-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	27-SEP-20
ALK-TITR-TB	Water							
Batch R5237963								
WG3412326-2 LCS								
Alkalinity, Total (as CaCO3)			113.7		%		85-115	25-SEP-20
WG3412332-2 LCS								
Alkalinity, Total (as CaCO3)			112.2		%		85-115	25-SEP-20
WG3412326-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	25-SEP-20
WG3412332-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	25-SEP-20
Batch R5238816								
WG3412954-2 LCS								
Alkalinity, Total (as CaCO3)			106.5		%		85-115	26-SEP-20
WG3412954-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	26-SEP-20
BR-IC-N-TB	Water							
Batch R5238018								
WG3412391-3 DUP		**L2507954-7**						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	25-SEP-20
WG3412391-2 LCS								
Bromide (Br)			104.1		%		85-115	25-SEP-20
WG3412391-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	25-SEP-20
WG3412395-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	25-SEP-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-IC-N-TB	Water							
Batch R5240060								
WG3412395-2 LCS								
Bromide (Br)			103.1		%		85-115	26-SEP-20
Batch R5241636								
WG3412971-2 LCS								
Bromide (Br)			100.3		%		85-115	28-SEP-20
WG3412971-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	28-SEP-20
CL-L-IC-N-TB	Water							
Batch R5238018								
WG3412391-3 DUP		**L2507954-7**						
Chloride (Cl)		1.36	1.37		mg/L	0.6	20	25-SEP-20
WG3412391-2 LCS								
Chloride (Cl)			95.5		%		90-110	25-SEP-20
WG3412391-1 MB								
Chloride (Cl)			0.17	MB-LOR	mg/L		0.1	25-SEP-20
WG3412391-4 MS		**L2507954-8**						
Chloride (Cl)			112.6		%		75-125	25-SEP-20
Batch R5240060								
WG3412395-2 LCS								
Chloride (Cl)			101.7		%		90-110	26-SEP-20
WG3412395-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	26-SEP-20
Batch R5241636								
WG3412971-2 LCS								
Chloride (Cl)			100.8		%		90-110	28-SEP-20
WG3412971-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	28-SEP-20
CN-TOT-WT	Water							
Batch R5242373								
WG3414759-7 LCS								
Cyanide, Total			96.7		%		80-120	29-SEP-20
WG3414759-6 MB								
Cyanide, Total			<0.0020		mg/L		0.002	29-SEP-20
DOC-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-WT	Water							
Batch R5245089								
WG3414907-2 LCS								
Dissolved Organic Carbon			105.6		%		80-120	02-OCT-20
WG3414907-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	02-OCT-20
Batch R5250757								
WG3414910-2 LCS								
Dissolved Organic Carbon			103.5		%		80-120	06-OCT-20
WG3414910-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	06-OCT-20
EC-TITR-TB	Water							
Batch R5237963								
WG3412326-2 LCS								
Conductivity (EC)			97.1		%		90-110	25-SEP-20
WG3412332-2 LCS								
Conductivity (EC)			97.3		%		90-110	25-SEP-20
WG3412326-1 MB								
Conductivity (EC)			1.0		uS/cm		2	25-SEP-20
WG3412332-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	25-SEP-20
Batch R5238816								
WG3412954-2 LCS								
Conductivity (EC)			98.7		%		90-110	26-SEP-20
WG3412954-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	26-SEP-20
F-IC-N-TB	Water							
Batch R5238018								
WG3412391-3 DUP		**L2507954-7**						
Fluoride (F)		0.147	0.150		mg/L	1.9	20	25-SEP-20
WG3412391-2 LCS								
Fluoride (F)			99.0		%		90-110	25-SEP-20
WG3412391-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	25-SEP-20
WG3412395-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	25-SEP-20
WG3412391-4 MS		**L2507954-8**						
Fluoride (F)			115.5		%		75-125	25-SEP-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-TB	Water							
Batch R5240060								
WG3412395-2 LCS								
Fluoride (F)			100.4		%		90-110	26-SEP-20
Batch R5241636								
WG3412971-2 LCS								
Fluoride (F)			106.4		%		90-110	28-SEP-20
WG3412971-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	28-SEP-20
HG-D-CVAA-WT	Water							
Batch R5242529								
WG3415210-2 LCS								
Mercury (Hg)-Dissolved			112.0		%		80-120	30-SEP-20
WG3415210-1 MB								
Mercury (Hg)-Dissolved			<0.000005C		mg/L		0.000005	30-SEP-20
Batch R5242533								
WG3415214-3 DUP		**L2507954-12**						
Mercury (Hg)-Dissolved		<0.0000050	<0.000005C	RPD-NA	mg/L	N/A	20	30-SEP-20
WG3415214-2 LCS								
Mercury (Hg)-Dissolved			112.0		%		80-120	30-SEP-20
WG3415214-1 MB								
Mercury (Hg)-Dissolved			<0.000005C		mg/L		0.000005	30-SEP-20
WG3415214-4 MS		**L2507954-13**						
Mercury (Hg)-Dissolved			116.0		%		70-130	30-SEP-20
MET-D-CCMS-TB	Water							
Batch R5241344								
WG3412443-7 DUP		**L2507954-13**						
Aluminum (Al)-Dissolved		0.0244	0.0247		mg/L	1.1	20	25-SEP-20
Antimony (Sb)-Dissolved		0.00038	0.00038		mg/L	1.3	20	25-SEP-20
Arsenic (As)-Dissolved		0.00040	0.00039		mg/L	4.5	20	25-SEP-20
Barium (Ba)-Dissolved		0.0504	0.0489		mg/L	2.9	20	25-SEP-20
Beryllium (Be)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	25-SEP-20
Bismuth (Bi)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	25-SEP-20
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	25-SEP-20
Cadmium (Cd)-Dissolved		<0.0000050	<0.000005C	RPD-NA	mg/L	N/A	20	25-SEP-20
Calcium (Ca)-Dissolved		61.1	60.3		mg/L	1.3	20	25-SEP-20
Cesium (Cs)-Dissolved		0.000070	0.000070		mg/L	0.0	20	25-SEP-20
Chromium (Cr)-Dissolved		0.00032	0.00033		mg/L	3.1	20	25-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5241344								
WG3412443-7 DUP		**L2507954-13**						
Cobalt (Co)-Dissolved		0.00019	0.00019		mg/L	1.0	20	25-SEP-20
Copper (Cu)-Dissolved		0.00023	<0.00020	RPD-NA	mg/L	N/A	20	25-SEP-20
Iron (Fe)-Dissolved		1.14	1.12		mg/L	1.7	20	25-SEP-20
Lead (Pb)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	25-SEP-20
Lithium (Li)-Dissolved		0.0027	0.0027		mg/L	2.7	20	25-SEP-20
Magnesium (Mg)-Dissolved		9.46	9.32		mg/L	1.5	20	25-SEP-20
Manganese (Mn)-Dissolved		0.165	0.164		mg/L	0.2	20	25-SEP-20
Molybdenum (Mo)-Dissolved		0.000189	0.000169		mg/L	11	20	25-SEP-20
Nickel (Ni)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	25-SEP-20
Phosphorus (P)-Dissolved		<0.050	<0.050	RPD-NA	mg/L	N/A	20	25-SEP-20
Potassium (K)-Dissolved		1.97	1.97		mg/L	0.0	20	25-SEP-20
Rubidium (Rb)-Dissolved		0.00168	0.00171		mg/L	2.0	20	25-SEP-20
Selenium (Se)-Dissolved		0.000146	0.000222	J	mg/L	0.000076	0.0001	25-SEP-20
Silicon (Si)-Dissolved		6.20	6.10		mg/L	1.5	20	25-SEP-20
Silver (Ag)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	25-SEP-20
Sodium (Na)-Dissolved		3.52	3.45		mg/L	1.8	20	25-SEP-20
Strontium (Sr)-Dissolved		0.171	0.168		mg/L	2.2	20	25-SEP-20
Sulfur (S)-Dissolved		<0.50	<0.50	RPD-NA	mg/L	N/A	20	25-SEP-20
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	25-SEP-20
Thallium (Tl)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	25-SEP-20
Thorium (Th)-Dissolved		<0.00010	0.00011	RPD-NA	mg/L	N/A	20	25-SEP-20
Tin (Sn)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	25-SEP-20
Titanium (Ti)-Dissolved		0.00120	0.00129		mg/L	7.9	20	25-SEP-20
Tungsten (W)-Dissolved		0.00038	0.00039		mg/L	0.9	20	25-SEP-20
Uranium (U)-Dissolved		0.000437	0.000442		mg/L	1.3	20	25-SEP-20
Vanadium (V)-Dissolved		0.00098	0.00100		mg/L	2.0	20	25-SEP-20
Zinc (Zn)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	25-SEP-20
Zirconium (Zr)-Dissolved		0.00423	0.00419		mg/L	1.1	20	25-SEP-20
WG3412443-6 LCS								
Aluminum (Al)-Dissolved			102.7		%		80-120	25-SEP-20
Antimony (Sb)-Dissolved			99.2		%		80-120	25-SEP-20
Arsenic (As)-Dissolved			100.4		%		80-120	25-SEP-20
Barium (Ba)-Dissolved			100.7		%		80-120	25-SEP-20
Beryllium (Be)-Dissolved			95.9		%		80-120	25-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5241344								
WG3412443-6 LCS								
Bismuth (Bi)-Dissolved			94.9		%		80-120	25-SEP-20
Boron (B)-Dissolved			94.5		%		80-120	25-SEP-20
Cadmium (Cd)-Dissolved			95.7		%		80-120	25-SEP-20
Calcium (Ca)-Dissolved			99.0		%		80-120	25-SEP-20
Cesium (Cs)-Dissolved			101.1		%		80-120	25-SEP-20
Chromium (Cr)-Dissolved			98.6		%		80-120	25-SEP-20
Cobalt (Co)-Dissolved			98.5		%		80-120	25-SEP-20
Copper (Cu)-Dissolved			96.3		%		80-120	25-SEP-20
Iron (Fe)-Dissolved			122.5	MES	%		80-120	25-SEP-20
Lead (Pb)-Dissolved			94.7		%		80-120	25-SEP-20
Lithium (Li)-Dissolved			100.5		%		80-120	25-SEP-20
Magnesium (Mg)-Dissolved			103.1		%		80-120	25-SEP-20
Manganese (Mn)-Dissolved			101.1		%		80-120	25-SEP-20
Molybdenum (Mo)-Dissolved			101.1		%		80-120	25-SEP-20
Nickel (Ni)-Dissolved			97.9		%		80-120	25-SEP-20
Phosphorus (P)-Dissolved			109.5		%		80-120	25-SEP-20
Potassium (K)-Dissolved			101.9		%		80-120	25-SEP-20
Rubidium (Rb)-Dissolved			96.6		%		80-120	25-SEP-20
Selenium (Se)-Dissolved			99.3		%		80-120	25-SEP-20
Silicon (Si)-Dissolved			104.1		%		80-120	25-SEP-20
Silver (Ag)-Dissolved			98.1		%		80-120	25-SEP-20
Sodium (Na)-Dissolved			97.4		%		80-120	25-SEP-20
Strontium (Sr)-Dissolved			97.2		%		80-120	25-SEP-20
Sulfur (S)-Dissolved			107.5		%		80-120	25-SEP-20
Tellurium (Te)-Dissolved			98.0		%		80-120	25-SEP-20
Thallium (Tl)-Dissolved			95.0		%		80-120	25-SEP-20
Thorium (Th)-Dissolved			94.1		%		80-120	25-SEP-20
Tin (Sn)-Dissolved			98.6		%		80-120	25-SEP-20
Titanium (Ti)-Dissolved			97.5		%		80-120	25-SEP-20
Tungsten (W)-Dissolved			98.2		%		80-120	25-SEP-20
Uranium (U)-Dissolved			95.2		%		80-120	25-SEP-20
Vanadium (V)-Dissolved			99.4		%		80-120	25-SEP-20
Zinc (Zn)-Dissolved			88.6		%		80-120	25-SEP-20
Zirconium (Zr)-Dissolved			100.2		%		80-120	25-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5241344								
WG3412443-5 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	25-SEP-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	25-SEP-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	25-SEP-20
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	25-SEP-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	25-SEP-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	25-SEP-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	25-SEP-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	25-SEP-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	25-SEP-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	25-SEP-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	25-SEP-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	25-SEP-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	25-SEP-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	25-SEP-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	25-SEP-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	25-SEP-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	25-SEP-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	25-SEP-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	25-SEP-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	25-SEP-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	25-SEP-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	25-SEP-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	25-SEP-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	25-SEP-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	25-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5241344								
WG3412443-5 MB								
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	25-SEP-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	25-SEP-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	25-SEP-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	25-SEP-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	25-SEP-20
WG3412443-8 MS		**L2507954-14**						
Aluminum (Al)-Dissolved			101.8		%		70-130	25-SEP-20
Antimony (Sb)-Dissolved			98.4		%		70-130	25-SEP-20
Arsenic (As)-Dissolved			101.2		%		70-130	25-SEP-20
Barium (Ba)-Dissolved			N/A	MS-B	%		-	25-SEP-20
Beryllium (Be)-Dissolved			100.0		%		70-130	25-SEP-20
Bismuth (Bi)-Dissolved			95.3		%		70-130	25-SEP-20
Boron (B)-Dissolved			97.2		%		70-130	25-SEP-20
Cadmium (Cd)-Dissolved			99.2		%		70-130	25-SEP-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	25-SEP-20
Cesium (Cs)-Dissolved			106.0		%		70-130	25-SEP-20
Chromium (Cr)-Dissolved			100.2		%		70-130	25-SEP-20
Cobalt (Co)-Dissolved			97.7		%		70-130	25-SEP-20
Copper (Cu)-Dissolved			95.9		%		70-130	25-SEP-20
Iron (Fe)-Dissolved			99.6		%		70-130	25-SEP-20
Lead (Pb)-Dissolved			97.7		%		70-130	25-SEP-20
Lithium (Li)-Dissolved			97.8		%		70-130	25-SEP-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	25-SEP-20
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	25-SEP-20
Molybdenum (Mo)-Dissolved			104.2		%		70-130	25-SEP-20
Nickel (Ni)-Dissolved			97.8		%		70-130	25-SEP-20
Phosphorus (P)-Dissolved			109.2		%		70-130	25-SEP-20
Potassium (K)-Dissolved			99.7		%		70-130	25-SEP-20
Rubidium (Rb)-Dissolved			99.4		%		70-130	25-SEP-20
Selenium (Se)-Dissolved			95.0		%		70-130	25-SEP-20
Silicon (Si)-Dissolved			75.2		%		70-130	25-SEP-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	25-SEP-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	25-SEP-20
Sulfur (S)-Dissolved			100.9		%		70-130	25-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5241344								
WG3412443-8 MS		**L2507954-14**						
Tellurium (Te)-Dissolved			107.2		%		70-130	25-SEP-20
Thallium (Tl)-Dissolved			98.0		%		70-130	25-SEP-20
Thorium (Th)-Dissolved			101.4		%		70-130	25-SEP-20
Tin (Sn)-Dissolved			101.4		%		70-130	25-SEP-20
Titanium (Ti)-Dissolved			103.1		%		70-130	25-SEP-20
Tungsten (W)-Dissolved			98.5		%		70-130	25-SEP-20
Uranium (U)-Dissolved			100.3		%		70-130	25-SEP-20
Vanadium (V)-Dissolved			99.6		%		70-130	25-SEP-20
Zinc (Zn)-Dissolved			96.0		%		70-130	25-SEP-20
Zirconium (Zr)-Dissolved			101.8		%		70-130	25-SEP-20
MET-T-CCMS-TB	Water							
Batch R5241304								
WG3412192-7 DUP		**L2507954-1**						
Aluminum (Al)-Total		3.82	3.85		mg/L	0.9	20	26-SEP-20
Antimony (Sb)-Total		0.00011	0.00011		mg/L	3.8	20	26-SEP-20
Arsenic (As)-Total		0.00065	0.00066		mg/L	2.2	20	26-SEP-20
Barium (Ba)-Total		0.0892	0.0895		mg/L	0.3	20	26-SEP-20
Beryllium (Be)-Total		0.00014	0.00014		mg/L	5.0	20	26-SEP-20
Bismuth (Bi)-Total		<0.000050	0.000076	RPD-NA	mg/L	N/A	20	26-SEP-20
Boron (B)-Total		0.017	0.018		mg/L	1.1	20	26-SEP-20
Cadmium (Cd)-Total		0.0000318	0.0000338		mg/L	6.1	20	26-SEP-20
Calcium (Ca)-Total		96.2	96.7		mg/L	0.5	20	26-SEP-20
Cesium (Cs)-Total		0.000796	0.000760		mg/L	4.7	20	26-SEP-20
Chromium (Cr)-Total		0.00897	0.00917		mg/L	2.2	20	26-SEP-20
Cobalt (Co)-Total		0.00423	0.00426		mg/L	0.6	20	26-SEP-20
Copper (Cu)-Total		0.0230	0.0233		mg/L	1.5	20	26-SEP-20
Iron (Fe)-Total		4.26	4.33		mg/L	1.7	20	26-SEP-20
Lead (Pb)-Total		0.00125	0.00123		mg/L	1.5	20	26-SEP-20
Lithium (Li)-Total		0.0057	0.0057		mg/L	0.0	20	26-SEP-20
Magnesium (Mg)-Total		13.3	13.7		mg/L	3.0	20	26-SEP-20
Manganese (Mn)-Total		0.180	0.182		mg/L	0.9	20	26-SEP-20
Molybdenum (Mo)-Total		0.00148	0.00147		mg/L	1.0	20	26-SEP-20
Nickel (Ni)-Total		0.00809	0.00846		mg/L	4.4	20	26-SEP-20
Phosphorus (P)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	20	26-SEP-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5241304								
WG3412192-7 DUP		**L2507954-1**						
Potassium (K)-Total		3.80	3.83		mg/L	0.9	20	26-SEP-20
Rubidium (Rb)-Total		0.0105	0.0111		mg/L	5.8	20	26-SEP-20
Selenium (Se)-Total		0.000432	0.000367		mg/L	16	20	26-SEP-20
Silicon (Si)-Total		11.7	11.8		mg/L	1.4	20	26-SEP-20
Silver (Ag)-Total		0.000612	0.000589		mg/L	3.9	20	26-SEP-20
Sodium (Na)-Total		5.38	5.51		mg/L	2.4	20	26-SEP-20
Strontium (Sr)-Total		0.659	0.659		mg/L	0.0	20	26-SEP-20
Sulfur (S)-Total		7.45	7.65		mg/L	2.7	20	26-SEP-20
Tellurium (Te)-Total		0.00030	0.00029		mg/L	4.0	20	26-SEP-20
Thallium (Tl)-Total		0.000089	0.000084		mg/L	6.0	20	26-SEP-20
Thorium (Th)-Total		0.00096	0.00096		mg/L	0.5	20	26-SEP-20
Tin (Sn)-Total		0.00013	0.00013		mg/L	1.4	20	26-SEP-20
Titanium (Ti)-Total		0.207	0.212		mg/L	2.3	20	26-SEP-20
Tungsten (W)-Total		0.00415	0.00413		mg/L	0.5	20	26-SEP-20
Uranium (U)-Total		0.00108	0.00108		mg/L	0.1	20	26-SEP-20
Vanadium (V)-Total		0.0118	0.0120		mg/L	1.8	20	26-SEP-20
Zinc (Zn)-Total		0.0140	0.0143		mg/L	2.0	20	26-SEP-20
Zirconium (Zr)-Total		0.00068	0.00069		mg/L	1.6	20	26-SEP-20
WG3412192-6 LCS								
Aluminum (Al)-Total			101.7		%		80-120	26-SEP-20
Antimony (Sb)-Total			104.8		%		80-120	26-SEP-20
Arsenic (As)-Total			101.5		%		80-120	26-SEP-20
Barium (Ba)-Total			103.3		%		80-120	26-SEP-20
Beryllium (Be)-Total			97.3		%		80-120	26-SEP-20
Bismuth (Bi)-Total			98.2		%		80-120	26-SEP-20
Boron (B)-Total			90.5		%		80-120	26-SEP-20
Cadmium (Cd)-Total			100.2		%		80-120	26-SEP-20
Calcium (Ca)-Total			101.5		%		80-120	26-SEP-20
Cesium (Cs)-Total			105.3		%		80-120	26-SEP-20
Chromium (Cr)-Total			101.9		%		80-120	26-SEP-20
Cobalt (Co)-Total			99.9		%		80-120	26-SEP-20
Copper (Cu)-Total			96.7		%		80-120	26-SEP-20
Iron (Fe)-Total			125.6	MES	%		80-120	26-SEP-20
Lead (Pb)-Total			99.0		%		80-120	26-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5241304								
WG3412192-6 LCS								
Lithium (Li)-Total			105.1		%		80-120	26-SEP-20
Magnesium (Mg)-Total			102.8		%		80-120	26-SEP-20
Manganese (Mn)-Total			102.0		%		80-120	26-SEP-20
Molybdenum (Mo)-Total			104.2		%		80-120	26-SEP-20
Nickel (Ni)-Total			99.0		%		80-120	26-SEP-20
Phosphorus (P)-Total			109.6		%		80-120	26-SEP-20
Potassium (K)-Total			103.0		%		80-120	26-SEP-20
Rubidium (Rb)-Total			103.2		%		80-120	26-SEP-20
Selenium (Se)-Total			100.5		%		80-120	26-SEP-20
Silicon (Si)-Total			102.4		%		80-120	26-SEP-20
Silver (Ag)-Total			104.7		%		80-120	26-SEP-20
Sodium (Na)-Total			105.0		%		80-120	26-SEP-20
Strontium (Sr)-Total			100.6		%		80-120	26-SEP-20
Sulfur (S)-Total			116.0		%		80-120	26-SEP-20
Tellurium (Te)-Total			89.4		%		80-120	26-SEP-20
Thallium (Tl)-Total			99.1		%		80-120	26-SEP-20
Thorium (Th)-Total			99.2		%		80-120	26-SEP-20
Tin (Sn)-Total			99.8		%		80-120	26-SEP-20
Titanium (Ti)-Total			100.2		%		80-120	26-SEP-20
Tungsten (W)-Total			100.1		%		80-120	26-SEP-20
Uranium (U)-Total			95.8		%		80-120	26-SEP-20
Vanadium (V)-Total			101.4		%		80-120	26-SEP-20
Zinc (Zn)-Total			95.2		%		80-120	26-SEP-20
Zirconium (Zr)-Total			103.0		%		80-120	26-SEP-20
WG3412192-5 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	26-SEP-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	26-SEP-20
Boron (B)-Total			<0.010		mg/L		0.01	26-SEP-20
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	26-SEP-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	26-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5241304								
WG3412192-5 MB								
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	26-SEP-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	26-SEP-20
Iron (Fe)-Total			<0.010		mg/L		0.01	26-SEP-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	26-SEP-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	26-SEP-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	26-SEP-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	26-SEP-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	26-SEP-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	26-SEP-20
Potassium (K)-Total			<0.050		mg/L		0.05	26-SEP-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	26-SEP-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	26-SEP-20
Silicon (Si)-Total			<0.10		mg/L		0.1	26-SEP-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	26-SEP-20
Sodium (Na)-Total			<0.050		mg/L		0.05	26-SEP-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	26-SEP-20
Sulfur (S)-Total			<0.50		mg/L		0.5	26-SEP-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	26-SEP-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	26-SEP-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	26-SEP-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	26-SEP-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	26-SEP-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	26-SEP-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	26-SEP-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	26-SEP-20
WG3412192-8 MS		**L2507954-4**						
Aluminum (Al)-Total			N/A	MS-B	%		-	26-SEP-20
Arsenic (As)-Total			N/A	MS-B	%		-	26-SEP-20
Barium (Ba)-Total			N/A	MS-B	%		-	26-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5241304								
WG3412192-8 MS		**L2507954-4**						
Calcium (Ca)-Total			N/A	MS-B	%		-	26-SEP-20
Cesium (Cs)-Total			N/A	MS-B	%		-	26-SEP-20
Chromium (Cr)-Total			N/A	MS-B	%		-	26-SEP-20
Cobalt (Co)-Total			N/A	MS-B	%		-	26-SEP-20
Copper (Cu)-Total			N/A	MS-B	%		-	26-SEP-20
Iron (Fe)-Total			N/A	MS-B	%		-	26-SEP-20
Lead (Pb)-Total			N/A	MS-B	%		-	26-SEP-20
Lithium (Li)-Total			N/A	MS-B	%		-	26-SEP-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	26-SEP-20
Manganese (Mn)-Total			N/A	MS-B	%		-	26-SEP-20
Nickel (Ni)-Total			N/A	MS-B	%		-	26-SEP-20
Potassium (K)-Total			N/A	MS-B	%		-	26-SEP-20
Rubidium (Rb)-Total			N/A	MS-B	%		-	26-SEP-20
Silicon (Si)-Total			N/A	MS-B	%		-	26-SEP-20
Sodium (Na)-Total			N/A	MS-B	%		-	26-SEP-20
Strontium (Sr)-Total			N/A	MS-B	%		-	26-SEP-20
Titanium (Ti)-Total			N/A	MS-B	%		-	26-SEP-20
Uranium (U)-Total			N/A	MS-B	%		-	26-SEP-20
Vanadium (V)-Total			N/A	MS-B	%		-	26-SEP-20
Zinc (Zn)-Total			N/A	MS-B	%		-	26-SEP-20
Batch R5241849								
WG3412937-2 LCS								
Aluminum (Al)-Total			99.6		%		80-120	29-SEP-20
Antimony (Sb)-Total			102.2		%		80-120	29-SEP-20
Arsenic (As)-Total			100.6		%		80-120	29-SEP-20
Barium (Ba)-Total			96.2		%		80-120	29-SEP-20
Beryllium (Be)-Total			96.8		%		80-120	29-SEP-20
Bismuth (Bi)-Total			100.4		%		80-120	29-SEP-20
Boron (B)-Total			96.9		%		80-120	29-SEP-20
Cadmium (Cd)-Total			97.7		%		80-120	29-SEP-20
Calcium (Ca)-Total			95.2		%		80-120	29-SEP-20
Cesium (Cs)-Total			101.0		%		80-120	29-SEP-20
Chromium (Cr)-Total			96.9		%		80-120	29-SEP-20
Cobalt (Co)-Total			97.0		%		80-120	29-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5241849								
WG3412937-2 LCS								
Copper (Cu)-Total			97.5		%		80-120	29-SEP-20
Iron (Fe)-Total			120.8	MES	%		80-120	29-SEP-20
Lead (Pb)-Total			100.0		%		80-120	29-SEP-20
Lithium (Li)-Total			102.6		%		80-120	29-SEP-20
Magnesium (Mg)-Total			99.9		%		80-120	29-SEP-20
Manganese (Mn)-Total			97.7		%		80-120	29-SEP-20
Molybdenum (Mo)-Total			101.8		%		80-120	29-SEP-20
Nickel (Ni)-Total			97.4		%		80-120	29-SEP-20
Phosphorus (P)-Total			102.0		%		80-120	29-SEP-20
Potassium (K)-Total			105.2		%		80-120	29-SEP-20
Rubidium (Rb)-Total			98.4		%		80-120	29-SEP-20
Selenium (Se)-Total			109.6		%		80-120	29-SEP-20
Silicon (Si)-Total			101.2		%		80-120	29-SEP-20
Silver (Ag)-Total			101.6		%		80-120	29-SEP-20
Sodium (Na)-Total			101.4		%		80-120	29-SEP-20
Strontium (Sr)-Total			96.6		%		80-120	29-SEP-20
Sulfur (S)-Total			98.6		%		80-120	29-SEP-20
Tellurium (Te)-Total			98.1		%		80-120	29-SEP-20
Thallium (Tl)-Total			101.4		%		80-120	29-SEP-20
Thorium (Th)-Total			97.5		%		80-120	29-SEP-20
Tin (Sn)-Total			100.1		%		80-120	29-SEP-20
Titanium (Ti)-Total			94.2		%		80-120	29-SEP-20
Tungsten (W)-Total			104.7		%		80-120	29-SEP-20
Uranium (U)-Total			98.9		%		80-120	29-SEP-20
Vanadium (V)-Total			98.7		%		80-120	29-SEP-20
Zinc (Zn)-Total			97.1		%		80-120	29-SEP-20
Zirconium (Zr)-Total			102.0		%		80-120	29-SEP-20
WG3412937-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	29-SEP-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	29-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5241849								
WG3412937-1 MB								
Boron (B)-Total			<0.010		mg/L		0.01	29-SEP-20
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	29-SEP-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	29-SEP-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	29-SEP-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	29-SEP-20
Iron (Fe)-Total			<0.010		mg/L		0.01	29-SEP-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	29-SEP-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	29-SEP-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	29-SEP-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	29-SEP-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	29-SEP-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	29-SEP-20
Potassium (K)-Total			<0.050		mg/L		0.05	29-SEP-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	29-SEP-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	29-SEP-20
Silicon (Si)-Total			<0.10		mg/L		0.1	29-SEP-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	29-SEP-20
Sodium (Na)-Total			<0.050		mg/L		0.05	29-SEP-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	29-SEP-20
Sulfur (S)-Total			<0.50		mg/L		0.5	29-SEP-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	29-SEP-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	29-SEP-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	29-SEP-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	29-SEP-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	29-SEP-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	29-SEP-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	29-SEP-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	29-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5243325								
WG3414714-2 LCS								
Aluminum (Al)-Total			104.4		%		80-120	30-SEP-20
Antimony (Sb)-Total			112.5		%		80-120	30-SEP-20
Arsenic (As)-Total			106.0		%		80-120	30-SEP-20
Barium (Ba)-Total			109.4		%		80-120	30-SEP-20
Beryllium (Be)-Total			105.8		%		80-120	30-SEP-20
Bismuth (Bi)-Total			108.4		%		80-120	30-SEP-20
Boron (B)-Total			103.2		%		80-120	30-SEP-20
Cadmium (Cd)-Total			107.6		%		80-120	30-SEP-20
Calcium (Ca)-Total			109.6		%		80-120	30-SEP-20
Cesium (Cs)-Total			112.4		%		80-120	30-SEP-20
Chromium (Cr)-Total			105.2		%		80-120	30-SEP-20
Cobalt (Co)-Total			102.6		%		80-120	30-SEP-20
Copper (Cu)-Total			104.7		%		80-120	30-SEP-20
Iron (Fe)-Total			125.4	MES	%		80-120	30-SEP-20
Lead (Pb)-Total			108.9		%		80-120	30-SEP-20
Lithium (Li)-Total			113.6		%		80-120	30-SEP-20
Magnesium (Mg)-Total			107.4		%		80-120	30-SEP-20
Manganese (Mn)-Total			102.6		%		80-120	30-SEP-20
Molybdenum (Mo)-Total			111.4		%		80-120	30-SEP-20
Nickel (Ni)-Total			103.7		%		80-120	30-SEP-20
Phosphorus (P)-Total			99.9		%		80-120	30-SEP-20
Potassium (K)-Total			107.3		%		80-120	30-SEP-20
Rubidium (Rb)-Total			104.2		%		80-120	30-SEP-20
Selenium (Se)-Total			112.7		%		80-120	30-SEP-20
Silicon (Si)-Total			107.9		%		80-120	30-SEP-20
Silver (Ag)-Total			110.8		%		80-120	30-SEP-20
Sodium (Na)-Total			105.5		%		80-120	30-SEP-20
Strontium (Sr)-Total			111.1		%		80-120	30-SEP-20
Sulfur (S)-Total			105.9		%		80-120	30-SEP-20
Tellurium (Te)-Total			116.4		%		80-120	30-SEP-20
Thallium (Tl)-Total			110.0		%		80-120	30-SEP-20
Thorium (Th)-Total			109.5		%		80-120	30-SEP-20
Tin (Sn)-Total			107.4		%		80-120	30-SEP-20
Titanium (Ti)-Total			102.1		%		80-120	30-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5243325								
WG3414714-2 LCS								
Tungsten (W)-Total			111.4		%		80-120	30-SEP-20
Uranium (U)-Total			109.5		%		80-120	30-SEP-20
Vanadium (V)-Total			104.0		%		80-120	30-SEP-20
Zinc (Zn)-Total			111.9		%		80-120	30-SEP-20
Zirconium (Zr)-Total			113.1		%		80-120	30-SEP-20
WG3414714-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	30-SEP-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	30-SEP-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	30-SEP-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	30-SEP-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	30-SEP-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	30-SEP-20
Boron (B)-Total			<0.010		mg/L		0.01	30-SEP-20
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	30-SEP-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	30-SEP-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	30-SEP-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	30-SEP-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	30-SEP-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	30-SEP-20
Iron (Fe)-Total			<0.010		mg/L		0.01	30-SEP-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	30-SEP-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	30-SEP-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	30-SEP-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	30-SEP-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	30-SEP-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	30-SEP-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	30-SEP-20
Potassium (K)-Total			<0.050		mg/L		0.05	30-SEP-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	30-SEP-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	30-SEP-20
Silicon (Si)-Total			<0.10		mg/L		0.1	30-SEP-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	30-SEP-20
Sodium (Na)-Total			<0.050		mg/L		0.05	30-SEP-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	30-SEP-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5243325								
WG3414714-1 MB								
Sulfur (S)-Total			<0.50		mg/L		0.5	30-SEP-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	30-SEP-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	30-SEP-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	30-SEP-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	30-SEP-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	30-SEP-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	30-SEP-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	30-SEP-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	30-SEP-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	30-SEP-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	30-SEP-20
NH3-F-TB	Water							
Batch R5243069								
WG3413119-3 DUP		**L2507954-1**						
Ammonia, Total (as N)		0.201	0.199		mg/L	1.2	20	30-SEP-20
WG3413119-2 LCS								
Ammonia, Total (as N)			98.2		%		85-115	30-SEP-20
WG3413119-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	30-SEP-20
Batch R5244232								
WG3417033-2 LCS								
Ammonia, Total (as N)			100.0		%		85-115	02-OCT-20
WG3417033-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	02-OCT-20
NO2-IC-N-TB	Water							
Batch R5238018								
WG3412391-3 DUP		**L2507954-7**						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	20	25-SEP-20
WG3412391-2 LCS								
Nitrite (as N)			96.3		%		90-110	25-SEP-20
WG3412391-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	25-SEP-20
WG3412395-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	25-SEP-20
WG3412391-4 MS		**L2507954-8**						
Nitrite (as N)			110.5		%		75-125	25-SEP-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-IC-N-TB	Water							
Batch R5240060								
WG3412395-2 LCS								
Nitrite (as N)			97.7		%		90-110	26-SEP-20
Batch R5241636								
WG3412971-2 LCS								
Nitrite (as N)			102.1		%		90-110	28-SEP-20
WG3412971-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	28-SEP-20
NO3-IC-N-TB	Water							
Batch R5238018								
WG3412391-3 DUP		**L2507954-7**						
Nitrate (as N)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	25-SEP-20
WG3412391-2 LCS								
Nitrate (as N)			97.4		%		90-110	25-SEP-20
WG3412391-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	25-SEP-20
WG3412395-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	25-SEP-20
WG3412391-4 MS		**L2507954-8**						
Nitrate (as N)			111.2		%		75-125	25-SEP-20
Batch R5240060								
WG3412395-2 LCS								
Nitrate (as N)			102.8		%		90-110	26-SEP-20
Batch R5241636								
WG3412971-2 LCS								
Nitrate (as N)			100.7		%		90-110	28-SEP-20
WG3412971-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	28-SEP-20
P-T-COL-TB	Water							
Batch R5242822								
WG3413124-2 LCS								
Phosphorus (P)-Total			102.7		%		80-120	30-SEP-20
WG3413125-2 LCS								
Phosphorus (P)-Total			103.2		%		80-120	30-SEP-20
WG3413124-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	30-SEP-20
WG3413125-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-T-COL-TB	Water							
Batch R5242822								
WG3413125-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	30-SEP-20
WG3413125-4 MS		**L2507954-13**						
Phosphorus (P)-Total			97.1		%		70-130	30-SEP-20
Batch R5244659								
WG3416329-3 DUP		**L2507954-5**						
Phosphorus (P)-Total		3.51	3.60		mg/L	2.6	20	02-OCT-20
WG3416329-2 LCS								
Phosphorus (P)-Total			103.1		%		80-120	02-OCT-20
Phosphorus (P)-Total			96.7		%		80-120	02-OCT-20
WG3416329-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	02-OCT-20
WG3416329-4 MS		**L2507954-7**						
Phosphorus (P)-Total			N/A	MS-B	%		-	02-OCT-20
PH-TITR-TB	Water							
Batch R5237963								
WG3412326-2 LCS								
pH			6.95		pH		6.9-7.1	25-SEP-20
WG3412332-2 LCS								
pH			6.94		pH		6.9-7.1	25-SEP-20
Batch R5238816								
WG3412954-2 LCS								
pH			7.02		pH		6.9-7.1	26-SEP-20
SIO2-COL-WP	Water							
Batch R5245202								
WG3418522-3 DUP		**L2507954-6**						
Silica, Reactive (as SiO2)		11.3	11.4		mg/L	1.1	20	05-OCT-20
WG3418522-2 LCS								
Silica, Reactive (as SiO2)			101.2		%		85-115	05-OCT-20
WG3418522-6 LCS								
Silica, Reactive (as SiO2)			101.0		%		85-115	05-OCT-20
WG3418522-1 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	05-OCT-20
WG3418522-5 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	05-OCT-20
WG3418522-4 MS		**L2507954-7**						
Silica, Reactive (as SiO2)			N/A	MS-B	%		-	05-OCT-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-IC-N-TB	Water							
Batch R5238018								
WG3412391-3 DUP		**L2507954-7**						
Sulfate (SO4)		4.11	4.13		mg/L	0.5	20	25-SEP-20
WG3412391-2 LCS								
Sulfate (SO4)			97.2		%		90-110	25-SEP-20
WG3412391-1 MB								
Sulfate (SO4)			0.62	MB-LOR	mg/L		0.3	25-SEP-20
WG3412395-1 MB								
Sulfate (SO4)			0.62	B	mg/L		0.3	25-SEP-20
WG3412391-4 MS		**L2507954-8**						
Sulfate (SO4)			114.4		%		75-125	25-SEP-20
Batch R5240060								
WG3412395-2 LCS								
Sulfate (SO4)			101.7		%		90-110	26-SEP-20
Batch R5241636								
WG3412971-2 LCS								
Sulfate (SO4)			103.2		%		90-110	28-SEP-20
WG3412971-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	28-SEP-20
TDS-TB	Water							
Batch R5236000								
WG3411825-3 DUP		**L2507954-3**						
Total Dissolved Solids		1360	1490		mg/L	8.8	20	24-SEP-20
WG3411825-2 LCS								
Total Dissolved Solids			93.8		%		85-115	24-SEP-20
WG3411825-1 MB								
Total Dissolved Solids			<10		mg/L		10	24-SEP-20
Batch R5238160								
WG3412465-2 LCS								
Total Dissolved Solids			96.3		%		85-115	25-SEP-20
WG3412465-1 MB								
Total Dissolved Solids			<10		mg/L		10	25-SEP-20
Batch R5241719								
WG3413506-2 LCS								
Total Dissolved Solids			96.0		%		85-115	28-SEP-20
WG3413506-1 MB								
Total Dissolved Solids			<10		mg/L		10	28-SEP-20
TSS-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TSS-TB	Water							
Batch R5235778								
WG3411827-3 DUP		**L2507954-3**						
Total Suspended Solids		28100	27400		mg/L	2.3	20	24-SEP-20
WG3411827-2 LCS								
Total Suspended Solids			99.8		%		85-115	24-SEP-20
WG3411827-1 MB								
Total Suspended Solids			<3.0		mg/L		3	24-SEP-20
Batch R5238080								
WG3412474-2 LCS								
Total Suspended Solids			95.8		%		85-115	25-SEP-20
WG3412474-1 MB								
Total Suspended Solids			<3.0		mg/L		3	25-SEP-20
Batch R5240401								
WG3413100-2 LCS								
Total Suspended Solids			88.3		%		85-115	26-SEP-20
WG3413100-1 MB								
Total Suspended Solids			<3.0		mg/L		3	26-SEP-20
Batch R5241678								
WG3413509-2 LCS								
Total Suspended Solids			93.3		%		85-115	28-SEP-20
WG3413509-1 MB								
Total Suspended Solids			<3.0		mg/L		3	28-SEP-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Total Dissolved Solids							
	1	17-SEP-20 12:13	28-SEP-20 10:07	7	11	days	EHTR
Total Suspended Solids							
	1	17-SEP-20 12:13	28-SEP-20 10:07	7	11	days	EHTR
pH							
	1	17-SEP-20 12:13	26-SEP-20 10:30	4	9	days	EHTR
	2	17-SEP-20 13:39	25-SEP-20 12:00	4	8	days	EHTR
	3	17-SEP-20 14:41	25-SEP-20 12:00	4	8	days	EHTR
	4	17-SEP-20 17:10	25-SEP-20 12:00	4	8	days	EHTR
	5	19-SEP-20 13:05	25-SEP-20 12:00	4	6	days	EHTR
	6	19-SEP-20 15:35	25-SEP-20 12:00	4	6	days	EHTR
	7	19-SEP-20 16:54	25-SEP-20 12:00	4	6	days	EHTR
	8	19-SEP-20 17:45	25-SEP-20 12:00	4	6	days	EHTR
	9	20-SEP-20 10:00	25-SEP-20 12:00	4	5	days	EHTR
	10	20-SEP-20 11:05	25-SEP-20 12:00	4	5	days	EHTR
	11	20-SEP-20 11:44	25-SEP-20 12:00	4	5	days	EHTR
	12	20-SEP-20	25-SEP-20 12:00	4	5	days	EHTR
	13	20-SEP-20 14:45	25-SEP-20 12:00	4	5	days	EHTL
	14	20-SEP-20 17:10	25-SEP-20 12:00	4	5	days	EHTL
Leachable Anions & Nutrients							
Nitrate in Water by IC							
	1	17-SEP-20 12:13	26-SEP-20 10:30	7	9	days	EHTR
	2	17-SEP-20 13:39	25-SEP-20 12:00	7	8	days	EHTL
	3	17-SEP-20 14:41	25-SEP-20 12:00	7	8	days	EHTL
	4	17-SEP-20 17:10	25-SEP-20 12:00	7	8	days	EHTL
Nitrite in Water by IC							
	1	17-SEP-20 12:13	26-SEP-20 10:30	7	9	days	EHTR
	2	17-SEP-20 13:39	25-SEP-20 12:00	7	8	days	EHTL
	3	17-SEP-20 14:41	25-SEP-20 12:00	7	8	days	EHTL
	4	17-SEP-20 17:10	25-SEP-20 12:00	7	8	days	EHTL

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2507954 were received on 24-SEP-20 13:45.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Your P.O. #: L2507954
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/10/23
Report #: R6382080
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0P7850
Received: 2020/10/02, 14:03

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Radium Isotopes by Alpha Spectrometry (1)	4	N/A	2020/10/22	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
(1) Radium-226 results have not been corrected for blanks.

Your P.O. #: L2507954
Your C.O.C. #: N/A

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2020/10/23
Report #: R6382080
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0P7850
Received: 2020/10/02, 14:03

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Mayank Nigam, Project Manager
Email: Mayank.Nigam@bvlabs.com
Phone# (905) 826-3080
==========
This report has been generated and distributed using a secure automated process.
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BV Labs Job #: C0P7850
Report Date: 2020/10/23

ALS Laboratory Group
Your P.O. #: L2507954

RESULTS OF ANALYSES OF WATER

BV Labs ID		NUE102	NUE103	NUE104		
Sampling Date		2020/09/17	2020/09/17	2020/09/19		
COC Number		N/A	N/A	N/A		
	UNITS	L2507954-1 SP-GW-BL-334-D	L2507954-2 SP-GW-MW5	L2507954-5 SP-FBH-09-R1-D	RDL	QC Batch
Radium-226	Bq/L	<0.010	0.200	0.230	0.010	7005450

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

BV Labs ID		NUE106		
Sampling Date		2020/09/20		
COC Number		N/A		
	UNITS	L2507954-11 SP-FBH-01-D	RDL	QC Batch
Radium-226	Bq/L	0.160	0.010	7005450

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Laboratories 6790 Kitimat Rd, Unit 4, Mississauga, ON L5N 5L9 Phone: (905) 826-3080 Fax: (905) 826-4151 Toll Free: 1 877-726-3080 www.bvlabs.com

TEST SUMMARY

BV Labs ID: NUE102
Sample ID: L2507954-1 SP-GW-BL-334-D
Matrix: Water

Collected: 2020/09/17
Shipped:
Received: 2020/10/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	7005450	N/A	2020/10/22	Priya Sharma

BV Labs ID: NUE103
Sample ID: L2507954-2 SP-GW-MW5
Matrix: Water

Collected: 2020/09/17
Shipped:
Received: 2020/10/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	7005450	N/A	2020/10/22	Priya Sharma

BV Labs ID: NUE104
Sample ID: L2507954-5 SP-FBH-09-R1-D
Matrix: Water

Collected: 2020/09/19
Shipped:
Received: 2020/10/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	7005450	N/A	2020/10/22	Priya Sharma

BV Labs ID: NUE106
Sample ID: L2507954-11 SP-FBH-01-D
Matrix: Water

Collected: 2020/09/20
Shipped:
Received: 2020/10/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Radium Isotopes by Alpha Spectrometry	AS	7005450	N/A	2020/10/22	Priya Sharma

Bureau Veritas Laboratories 6790 Kitimat Rd, Unit 4, Mississauga, ON L5N 5L9 Phone: (905) 826-3080 Fax: (905) 826-4151 Toll Free: 1 877-726-3080 www.bvlabs.com

GENERAL COMMENTS

Results relate only to the items tested.

Bureau Veritas Laboratories 6790 Kitimat Rd, Unit 4, Mississauga, ON L5N 5L9 Phone: (905) 826-3080 Fax: (905) 826-4151 Toll Free: 1 877-726-3080 www.bvlabs.com

BV Labs Job #: C0P7850
Report Date: 2020/10/23

ALS Laboratory Group
Your P.O. #: L2507954

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7005450	SHC	Spiked Blank	Radium-226	2020/10/21		98	%	85 - 115
7005450	SHC	Method Blank	Radium-226	2020/10/21	<0.010		Bq/L	
7005450	SHC	RPD	Radium-226	2020/10/21	NC		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

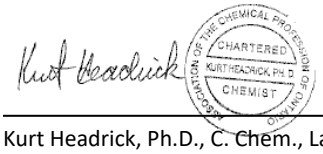
Bureau Veritas Laboratories 6790 Kitimat Rd, Unit 4, Mississauga, ON L5N 5L9 Phone: (905) 826-3080 Fax: (905) 826-4151 Toll Free: 1 877-726-3080 www.bvlabs.com

BV Labs Job #: C0P7850
Report Date: 2020/10/23

ALS Laboratory Group
Your P.O. #: L2507954

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Kurt Headrick, Ph.D., C. Chem., Laboratory Manager

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

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Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2507954-COFC

COC Number: 17 -

Page 1 of 2

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☐ PDF ☐ EXCEL ☐ EDD (DIGITAL)

Quality Control (QC) Report with Report ☐ YES ☐ NO

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1: dmchaina@firstmininggold.com

Email 2: shila@firstmininggold.com

Email 3: shaun@firstmininggold.com

Invoice Distribution

Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accountspayable@firstmininggold.com

Email 2: dmchaina@firstmininggold.com

Project Information

ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole GW
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#:
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2507954

ALS Contact: | Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200%] (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

NUMBER OF CONTAINERS

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity	Dissolved Metals, Total Metals	Dissolved Mercury	DOC, F, Hardness, NO2,NO3, pH, SO4	TDS	Total Cyanide	Total Phosphorus, TSS	Reactive Silica	Pa - 231	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	SP-GW-BL-334-D	17 Sep 20	12:13	Ground Water	x	x	x	x	x	x	x	x	x		
	SP-GW-MW5	17 Sep 20	13:39	Ground Water	x	x	x	x	x	x	x	x	x		
	SP-GW-MW4	17 Sep 20	14:41	Ground Water	x	x	x	x	x	x	x	x			
	SP-GW-MW3	17 Sep 20	17:10	Ground Water	x	x	x	x	x	x	x	x			
	SP-FBH-09-R1-D	19 Sep 20	13:05	Ground Water	x	x	x	x	x	x	x	x	X		
	SP-FBH-03-D	19 Sep 20	15:35	Ground Water	x	x	x	x	x	x	x	x			
	SP-FBH-11-D	19 Sep 20	16:54	Ground Water	x	x	x	x	x	x	x	x			
	SP-FBH-07-R1-D	19 Sep 20	17:48	Ground Water	x	x	x	x	x	x	x	x			
	SP-GW-MW2	20 Sept 2020	10:00	Ground Water	x	x	x	x	x	x	x	x			
	SP-FBH-02-D	20 Sept 2020	11:05	Ground Water	x	x	x	x	x	x	x	x			
	SP-FBH-01-D	20 Sept 2020	11:44	Ground Water	x	x	x	x	x	x	x	x	X		
	SP-GW-DUP-1	20 Sept 2020	AM	Ground Water	x	x	x	x	x	x	x	x			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☑ No ☐

Ice Packs ☐ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
13.0							

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
	Sept 24/20	1:45

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2507954-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☐ PDF ☐ EXCEL ☐ EDD (DIGITAL)

Quality Control (QC) Report with Report ☐ YES ☐ NO

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1: dmchaina@firstmininggold.com

Email 2: shila@firstmininggold.com

Email 3: shaun@firstmininggold.com

Invoice Distribution

Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accountspayable@firstmininggold.com

Email 2: dmchaina@firstmininggold.com

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole GW
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#:
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only):

ALS Contact:

Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity	Dissolved Metals, Total Metals	Dissolved Mercury	DOC, F, Hardness, NO2,NO3, pH, SO4	TCS	Total Cyanide	Total Phosphorus, TSS	Reactive Silica	Pa-226	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	SP-~~6565~~ FBH-12-D	20Sep20	14:45	Ground Water		x	x	x	x	x	x	x	x			
	SP- FB1-04-D	20Sep20	17:10	Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			
				Ground Water		x	x	x	x	x	x	x	x			

Note: Dissolved metals and Diss. Hg field filtered.
: All samples field preserved.

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
13.0							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
				Sept 24/20	1:45			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

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1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: David Mchaina
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 20-OCT-20
Report Date: 26-OCT-20 10:26 (MT)
Version: DRAFT REV. 4

Client Phone: 705-929-5245

Certificate of Analysis

Lab Work Order #: L2518840

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST
C of C Numbers:
Legal Site Desc: First Mining Gold Project

DRAFT

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-1 3134 - AQ - LAKE1-201018 Sampled By: Client on 18-OCT-20 @ 12:15 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	66.5		1.0	uS/cm		20-OCT-20	R5260444
Hardness (as CaCO3)	31.7		0.50	mg/L		23-OCT-20	
pH	7.37		0.10	pH		20-OCT-20	R5260444
Total Suspended Solids	<3.0		3.0	mg/L		21-OCT-20	R5263480
Total Dissolved Solids	47		13	mg/L		21-OCT-20	R5263861
Anions and Nutrients							
Acidity (as CaCO3)	3.0		2.0	mg/L		21-OCT-20	R5264311
Alkalinity, Total (as CaCO3)	31.2		2.0	mg/L		20-OCT-20	R5260444
Ammonia, Total (as N)	<0.0050		0.0050	mg/L	21-OCT-20	22-OCT-20	R5263998
Bromide (Br)	<0.10		0.10	mg/L	20-OCT-20	22-OCT-20	R5266229
Chloride (Cl)	<0.24	RRR	0.24	mg/L	20-OCT-20	22-OCT-20	R5266229
Fluoride (F)	0.037	RRR	0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrate (as N)	0.091	RRR	0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrite (as N)	<0.010		0.010	mg/L	20-OCT-20	22-OCT-20	R5266229
Total Kjeldahl Nitrogen	0.435		0.050	mg/L	21-OCT-20	21-OCT-20	R5263221
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	20-OCT-20	21-OCT-20	R5265199
Phosphorus (P)-Total	<0.030		0.030	mg/L	21-OCT-20	22-OCT-20	R5267857
Sulfate (SO4)	2.00	RRR	0.30	mg/L	20-OCT-20	22-OCT-20	R5266229
Organic / Inorganic Carbon							
Dissolved Organic Carbon	6.91		0.50	mg/L		23-OCT-20	R5268262
Total Organic Carbon	7.19		0.50	mg/L		22-OCT-20	R5268264
Total Metals							
Aluminum (Al)-Total	0.0079		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Arsenic (As)-Total	0.00060		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Barium (Ba)-Total	0.00767		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Boron (B)-Total	<0.010		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Calcium (Ca)-Total	10.5		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Chromium (Cr)-Total	0.00015		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Copper (Cu)-Total	0.00073		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Iron (Fe)-Total	0.023		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Lead (Pb)-Total	<0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Lithium (Li)-Total	<0.0010		0.0010	mg/L	21-OCT-20	21-OCT-20	R5263621
Magnesium (Mg)-Total	1.50		0.0050	mg/L	21-OCT-20	21-OCT-20	R5263621
Manganese (Mn)-Total	0.00382		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		24-OCT-20	R5268017
Molybdenum (Mo)-Total	0.000106		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621

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* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-1 3134 - AQ - LAKE1-201018 Sampled By: Client on 18-OCT-20 @ 12:15 Matrix: Surface Water							
Total Metals							
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Phosphorus (P)-Total	<0.050		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Potassium (K)-Total	0.656		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00159		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Selenium (Se)-Total	0.000083		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Silicon (Si)-Total	1.07		0.10	mg/L	21-OCT-20	21-OCT-20	R5263621
Silver (Ag)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Sodium (Na)-Total	0.710		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Strontium (Sr)-Total	0.0248		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Sulfur (S)-Total	1.07		0.50	mg/L	21-OCT-20	21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Tin (Sn)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	21-OCT-20	21-OCT-20	R5263621
Tungsten (W)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Uranium (U)-Total	0.000013		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Vanadium (V)-Total	<0.00050		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-OCT-20	R5264312
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0024		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.00061		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.00740		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-OCT-20	22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Calcium (Ca)-Dissolved	10.3		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00065		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	21-OCT-20	22-OCT-20	R5267319
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	1.43		0.0050	mg/L	21-OCT-20	22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.00060		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-1 3134 - AQ - LAKE1-201018 Sampled By: Client on 18-OCT-20 @ 12:15 Matrix: Surface Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-OCT-20	24-OCT-20	R5267959
Molybdenum (Mo)-Dissolved	0.000091		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	21-OCT-20	22-OCT-20	R5267319
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Potassium (K)-Dissolved	0.648		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00161		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000087		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Silicon (Si)-Dissolved	0.995		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Sodium (Na)-Dissolved	0.664		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.0232		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-OCT-20	22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-OCT-20	22-OCT-20	R5267319
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Uranium (U)-Dissolved	0.000012		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-OCT-20	22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0026		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		23-OCT-20	R5268215
Chromium, Hexavalent	<0.50		0.50	ug/L		23-OCT-20	R5268215
Methylmercury (as MeHg)-Total	<0.000020		0.000020	ug/L	22-OCT-20	22-OCT-20	R5267885
Aggregate Organics							
Chemical Oxygen Demand	31		20	mg/L	21-OCT-20	22-OCT-20	R5264337
L2518840-2 3134 - AQ - LAKE2-201018 Sampled By: Client on 18-OCT-20 @ 12:30 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	64.7		1.0	uS/cm		20-OCT-20	R5260444
Hardness (as CaCO3)	31.1		0.50	mg/L		23-OCT-20	
pH	7.38		0.10	pH		20-OCT-20	R5260444
Total Suspended Solids	<3.0		3.0	mg/L		21-OCT-20	R5263480
Total Dissolved Solids	48		13	mg/L		21-OCT-20	R5263861
Anions and Nutrients							
Acidity (as CaCO3)	2.7		2.0	mg/L		21-OCT-20	R5264311
Alkalinity, Total (as CaCO3)	31.4		2.0	mg/L		20-OCT-20	R5260444
Ammonia, Total (as N)	2.01		0.050	mg/L	21-OCT-20	22-OCT-20	R5263998
Bromide (Br)	<0.10		0.10	mg/L	20-OCT-20	22-OCT-20	R5266229

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-2 3134 - AQ - LAKE2-201018 Sampled By: Client on 18-OCT-20 @ 12:30 Matrix: Surface Water							
Anions and Nutrients							
Chloride (Cl)	<0.23	RRR	0.23	mg/L	20-OCT-20	22-OCT-20	R5266229
Fluoride (F)	0.038	RRR	0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrate (as N)	<0.020		0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrite (as N)	<0.010		0.010	mg/L	20-OCT-20	22-OCT-20	R5266229
Total Kjeldahl Nitrogen	2.19		0.050	mg/L	21-OCT-20	21-OCT-20	R5263221
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	20-OCT-20	21-OCT-20	R5265199
Phosphorus (P)-Total	<0.030		0.030	mg/L	21-OCT-20	22-OCT-20	R5267857
Sulfate (SO4)	1.99	RRR	0.30	mg/L	20-OCT-20	22-OCT-20	R5266229
Organic / Inorganic Carbon							
Dissolved Organic Carbon	6.88		0.50	mg/L		23-OCT-20	R5268262
Total Organic Carbon	6.73		0.50	mg/L		22-OCT-20	R5268264
Total Metals							
Aluminum (Al)-Total	0.0076		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Arsenic (As)-Total	0.00058		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Barium (Ba)-Total	0.00775		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Boron (B)-Total	<0.010		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Calcium (Ca)-Total	10.5		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Chromium (Cr)-Total	0.00013		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Copper (Cu)-Total	0.00072		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Iron (Fe)-Total	0.024		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Lead (Pb)-Total	<0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Lithium (Li)-Total	<0.0010		0.0010	mg/L	21-OCT-20	21-OCT-20	R5263621
Magnesium (Mg)-Total	1.51		0.0050	mg/L	21-OCT-20	21-OCT-20	R5263621
Manganese (Mn)-Total	0.00386		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		24-OCT-20	R5268017
Molybdenum (Mo)-Total	0.000113		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Phosphorus (P)-Total	<0.050		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Potassium (K)-Total	0.639		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00168		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Selenium (Se)-Total	0.000125		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Silicon (Si)-Total	1.11		0.10	mg/L	21-OCT-20	21-OCT-20	R5263621
Silver (Ag)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Sodium (Na)-Total	0.701		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Strontium (Sr)-Total	0.0247		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-2 3134 - AQ - LAKE2-201018 Sampled By: Client on 18-OCT-20 @ 12:30 Matrix: Surface Water							
Total Metals							
Sulfur (S)-Total	1.06		0.50	mg/L	21-OCT-20	21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Tin (Sn)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	21-OCT-20	21-OCT-20	R5263621
Tungsten (W)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Uranium (U)-Total	0.000014		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Vanadium (V)-Total	<0.00050		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-OCT-20	R5264316
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0019		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.00064		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.00729		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-OCT-20	22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Calcium (Ca)-Dissolved	10.1		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00012		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00075		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	21-OCT-20	22-OCT-20	R5267319
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	1.41		0.0050	mg/L	21-OCT-20	22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.00054		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-OCT-20	24-OCT-20	R5267960
Molybdenum (Mo)-Dissolved	0.000091		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	21-OCT-20	22-OCT-20	R5267319
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Potassium (K)-Dissolved	0.664		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00163		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000092		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Silicon (Si)-Dissolved	0.985		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-2 3134 - AQ - LAKE2-201018 Sampled By: Client on 18-OCT-20 @ 12:30 Matrix: Surface Water							
Dissolved Metals							
Sodium (Na)-Dissolved	0.670		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.0231		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-OCT-20	22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-OCT-20	22-OCT-20	R5267319
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Uranium (U)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-OCT-20	22-OCT-20	R5267319
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		23-OCT-20	R5268215
Chromium, Hexavalent	<0.50		0.50	ug/L		23-OCT-20	R5268215
Methylmercury (as MeHg)-Total	<0.000020		0.000020	ug/L	22-OCT-20	22-OCT-20	R5267885
Aggregate Organics							
Chemical Oxygen Demand	34		20	mg/L	21-OCT-20	22-OCT-20	R5264337
L2518840-3 3134 - AQ - SPW20-001-201018 Sampled By: Client on 18-OCT-20 @ 18:00 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	547		1.0	uS/cm		20-OCT-20	R5260444
pH	7.47		0.10	pH		20-OCT-20	R5260444
Total Suspended Solids	<3.0		3.0	mg/L		21-OCT-20	R5263480
Total Dissolved Solids	338		20	mg/L		21-OCT-20	R5263861
Anions and Nutrients							
Acidity (as CaCO3)	12.2		2.0	mg/L		21-OCT-20	R5264311
Alkalinity, Total (as CaCO3)	269		2.0	mg/L		20-OCT-20	R5260444
Bromide (Br)	<0.10		0.10	mg/L	20-OCT-20	22-OCT-20	R5266229
Chloride (Cl)	<0.55	RRR	0.55	mg/L	20-OCT-20	22-OCT-20	R5266229
Fluoride (F)	0.061	RRR	0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrate (as N)	0.026	RRR	0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrite (as N)	<0.010		0.010	mg/L	20-OCT-20	22-OCT-20	R5266229
Sulfate (SO4)	42.1	RRR	0.30	mg/L	20-OCT-20	22-OCT-20	R5266229
Organic / Inorganic Carbon							
Dissolved Organic Carbon	5.14		0.50	mg/L		23-OCT-20	R5268262
Total Metals							
Aluminum (Al)-Total	0.0513		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621
Antimony (Sb)-Total	0.00056		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Arsenic (As)-Total	0.0103		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621

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* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-3 3134 - AQ - SPW20-001-201018 Sampled By: Client on 18-OCT-20 @ 18:00 Matrix: Ground Water							
Total Metals							
Barium (Ba)-Total	0.0834		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Boron (B)-Total	<0.010		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cadmium (Cd)-Total	0.0000092		0.0000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Calcium (Ca)-Total	89.3		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Cesium (Cs)-Total	0.000224		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Chromium (Cr)-Total	0.00050		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cobalt (Co)-Total	0.00065		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Copper (Cu)-Total	0.00097		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Iron (Fe)-Total	1.08		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Lead (Pb)-Total	0.000117		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Lithium (Li)-Total	0.0024		0.0010	mg/L	21-OCT-20	21-OCT-20	R5263621
Magnesium (Mg)-Total	16.8		0.0050	mg/L	21-OCT-20	21-OCT-20	R5263621
Manganese (Mn)-Total	0.569		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Molybdenum (Mo)-Total	0.00539		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Nickel (Ni)-Total	0.00332		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Phosphorus (P)-Total	<0.050		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Potassium (K)-Total	1.77		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00260		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Selenium (Se)-Total	<0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Silicon (Si)-Total	5.10		0.10	mg/L	21-OCT-20	21-OCT-20	R5263621
Silver (Ag)-Total	0.000065		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Sodium (Na)-Total	2.34		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Strontium (Sr)-Total	0.800		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Sulfur (S)-Total	14.9		0.50	mg/L	21-OCT-20	21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Tin (Sn)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Titanium (Ti)-Total	0.00120		0.00030	mg/L	21-OCT-20	21-OCT-20	R5263621
Tungsten (W)-Total	0.0112		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Uranium (U)-Total	0.000539		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Vanadium (V)-Total	0.00118		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Zinc (Zn)-Total	0.0703		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621
Zirconium (Zr)-Total	0.00192		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-OCT-20	R5264316
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-OCT-20	24-OCT-20	R5267960
Speciated Metals							

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-3 3134 - AQ - SPW20-001-201018 Sampled By: Client on 18-OCT-20 @ 18:00 Matrix: Ground Water							
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		23-OCT-20	R5268215
L2518840-4 3134 - AQ - LAKE1-201019 Sampled By: Client on 19-OCT-20 @ 08:15 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	67.4		1.0	uS/cm		20-OCT-20	R5260444
pH	7.37		0.10	pH		20-OCT-20	R5260444
Total Suspended Solids	<3.0		3.0	mg/L		21-OCT-20	R5263480
Total Dissolved Solids	47		13	mg/L		21-OCT-20	R5263861
Anions and Nutrients							
Acidity (as CaCO3)	2.5		2.0	mg/L		21-OCT-20	R5264311
Alkalinity, Total (as CaCO3)	32.0		2.0	mg/L		20-OCT-20	R5260444
Ammonia, Total (as N)	1.97		0.050	mg/L	21-OCT-20	22-OCT-20	R5263998
Bromide (Br)	<0.10	RRR	0.10	mg/L	20-OCT-20	22-OCT-20	R5266229
Chloride (Cl)	<0.18	RRR	0.18	mg/L	20-OCT-20	22-OCT-20	R5266229
Fluoride (F)	0.027	RRR	0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrate (as N)	<0.020		0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrite (as N)	<0.010		0.010	mg/L	20-OCT-20	22-OCT-20	R5266229
Total Kjeldahl Nitrogen	2.18		0.050	mg/L	21-OCT-20	21-OCT-20	R5263221
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	20-OCT-20	21-OCT-20	R5265199
Phosphorus (P)-Total	<0.030		0.030	mg/L	21-OCT-20	22-OCT-20	R5267857
Sulfate (SO4)	1.54	RRR	0.30	mg/L	20-OCT-20	22-OCT-20	R5266229
Organic / Inorganic Carbon							
Dissolved Organic Carbon	6.46		0.50	mg/L		23-OCT-20	R5268262
Total Organic Carbon	6.76		0.50	mg/L		22-OCT-20	R5268264
Total Metals							
Aluminum (Al)-Total	0.0093		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Arsenic (As)-Total	0.00058		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Barium (Ba)-Total	0.00774		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Boron (B)-Total	<0.010		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Calcium (Ca)-Total	10.5		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Chromium (Cr)-Total	0.00011		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Copper (Cu)-Total	0.00071		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Iron (Fe)-Total	0.028		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Lead (Pb)-Total	<0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Lithium (Li)-Total	<0.0010		0.0010	mg/L	21-OCT-20	21-OCT-20	R5263621

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-4 3134 - AQ - LAKE1-201019 Sampled By: Client on 19-OCT-20 @ 08:15 Matrix: Surface Water							
Total Metals							
Magnesium (Mg)-Total	1.57		0.0050	mg/L	21-OCT-20	21-OCT-20	R5263621
Manganese (Mn)-Total	0.00461		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		24-OCT-20	R5268017
Molybdenum (Mo)-Total	0.000112		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Phosphorus (P)-Total	<0.050		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Potassium (K)-Total	0.645		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00170		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Selenium (Se)-Total	0.000082		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Silicon (Si)-Total	1.14		0.10	mg/L	21-OCT-20	21-OCT-20	R5263621
Silver (Ag)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Sodium (Na)-Total	0.697		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Strontium (Sr)-Total	0.0260		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Sulfur (S)-Total	1.03		0.50	mg/L	21-OCT-20	21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Tin (Sn)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	21-OCT-20	21-OCT-20	R5263621
Tungsten (W)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Uranium (U)-Total	0.000014		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Vanadium (V)-Total	<0.00050		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-OCT-20	R5264316
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-OCT-20	24-OCT-20	R5267960
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		23-OCT-20	R5268215
Chromium, Hexavalent	<0.50		0.50	ug/L		23-OCT-20	R5268215
Methylmercury (as MeHg)-Total	<0.000020		0.000020	ug/L	22-OCT-20	22-OCT-20	R5267885
Aggregate Organics							
Chemical Oxygen Demand	35		20	mg/L	21-OCT-20	22-OCT-20	R5264337
L2518840-5 3134 - AQ - LAKE2-201019 Sampled By: Client on 19-OCT-20 @ 08:30 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	65.3		1.0	uS/cm		20-OCT-20	R5260444
Hardness (as CaCO3)	31.5		0.50	mg/L		23-OCT-20	
pH	7.37		0.10	pH		20-OCT-20	R5260444
Total Suspended Solids	<3.0		3.0	mg/L		21-OCT-20	R5263480

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-5 3134 - AQ - LAKE2-201019 Sampled By: Client on 19-OCT-20 @ 08:30 Matrix: Surface Water							
Physical Tests							
Total Dissolved Solids	43		13	mg/L		21-OCT-20	R5263861
Anions and Nutrients							
Acidity (as CaCO3)	2.6		2.0	mg/L		21-OCT-20	R5264311
Alkalinity, Total (as CaCO3)	31.5		2.0	mg/L		20-OCT-20	R5260444
Ammonia, Total (as N)	1.93		0.050	mg/L	21-OCT-20	22-OCT-20	R5263998
Bromide (Br)	<0.10		0.10	mg/L	20-OCT-20	22-OCT-20	R5266229
Chloride (Cl)	<0.17	RRR	0.17	mg/L	20-OCT-20	22-OCT-20	R5266229
Fluoride (F)	0.029	RRR	0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrate (as N)	<0.020		0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrite (as N)	<0.010		0.010	mg/L	20-OCT-20	22-OCT-20	R5266229
Total Kjeldahl Nitrogen	2.33		0.050	mg/L	21-OCT-20	21-OCT-20	R5263221
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	20-OCT-20	21-OCT-20	R5265199
Phosphorus (P)-Total	<0.030		0.030	mg/L	21-OCT-20	22-OCT-20	R5267857
Sulfate (SO4)	1.58	RRR	0.30	mg/L	20-OCT-20	22-OCT-20	R5266229
Organic / Inorganic Carbon							
Dissolved Organic Carbon	6.89		0.50	mg/L		23-OCT-20	R5268262
Total Organic Carbon	6.86		0.50	mg/L		22-OCT-20	R5268264
Total Metals							
Aluminum (Al)-Total	0.0115		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Arsenic (As)-Total	0.00058		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Barium (Ba)-Total	0.00766		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Boron (B)-Total	<0.010		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Calcium (Ca)-Total	10.5		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Chromium (Cr)-Total	0.00011		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Copper (Cu)-Total	0.00071		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Iron (Fe)-Total	0.025		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Lead (Pb)-Total	<0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Lithium (Li)-Total	<0.0010		0.0010	mg/L	21-OCT-20	21-OCT-20	R5263621
Magnesium (Mg)-Total	1.53		0.0050	mg/L	21-OCT-20	21-OCT-20	R5263621
Manganese (Mn)-Total	0.00421		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		24-OCT-20	R5268017
Molybdenum (Mo)-Total	0.000117		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Phosphorus (P)-Total	<0.050		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Potassium (K)-Total	0.641		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00165		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621

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* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-5 3134 - AQ - LAKE2-201019 Sampled By: Client on 19-OCT-20 @ 08:30 Matrix: Surface Water							
Total Metals							
Selenium (Se)-Total	0.000079		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Silicon (Si)-Total	1.12		0.10	mg/L	21-OCT-20	21-OCT-20	R5263621
Silver (Ag)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Sodium (Na)-Total	0.686		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Strontium (Sr)-Total	0.0256		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Sulfur (S)-Total	0.92		0.50	mg/L	21-OCT-20	21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Tin (Sn)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	21-OCT-20	21-OCT-20	R5263621
Tungsten (W)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Uranium (U)-Total	0.000012		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Vanadium (V)-Total	<0.00050		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-OCT-20	R5264316
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0021		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.00055		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.00718		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-OCT-20	22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Calcium (Ca)-Dissolved	10.3		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00062		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	21-OCT-20	22-OCT-20	R5267319
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	1.44		0.0050	mg/L	21-OCT-20	22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.00057		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-OCT-20	24-OCT-20	R5267960
Molybdenum (Mo)-Dissolved	0.000104		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	21-OCT-20	22-OCT-20	R5267319
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319

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* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-5 3134 - AQ - LAKE2-201019 Sampled By: Client on 19-OCT-20 @ 08:30 Matrix: Surface Water							
Dissolved Metals							
Potassium (K)-Dissolved	0.643		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00161		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000075		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Silicon (Si)-Dissolved	1.05		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Sodium (Na)-Dissolved	0.658		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Strontium (Sr)-Dissolved	0.0238		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-OCT-20	22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Tin (Sn)-Dissolved	0.00015		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-OCT-20	22-OCT-20	R5267319
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Uranium (U)-Dissolved	0.000011		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-OCT-20	22-OCT-20	R5267319
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		23-OCT-20	R5268215
Chromium, Hexavalent	<0.50		0.50	ug/L		23-OCT-20	R5268215
Methylmercury (as MeHg)-Total	<0.000020		0.000020	ug/L	22-OCT-20	22-OCT-20	R5267885
Aggregate Organics							
Chemical Oxygen Demand	37		20	mg/L	21-OCT-20	22-OCT-20	R5264337
L2518840-6 3134 - AQ - SPW20-001-201019 Sampled By: Client on 19-OCT-20 @ 10:15 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	616		1.0	uS/cm		21-OCT-20	R5264311
Hardness (as CaCO3)	311		0.50	mg/L		23-OCT-20	
pH	7.59		0.10	pH		21-OCT-20	R5264311
Total Suspended Solids	<3.0		3.0	mg/L		21-OCT-20	R5263480
Total Dissolved Solids	401		20	mg/L		21-OCT-20	R5263861
Anions and Nutrients							
Acidity (as CaCO3)	15.6		2.0	mg/L		21-OCT-20	R5264311
Alkalinity, Total (as CaCO3)	284		2.0	mg/L		22-OCT-20	R5265717
Bromide (Br)	0.11	RRR	0.10	mg/L	20-OCT-20	22-OCT-20	R5266229
Chloride (Cl)	5.62	RRR	0.10	mg/L	20-OCT-20	22-OCT-20	R5266229
Fluoride (F)	0.104	RRR	0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrate (as N)	<0.020		0.020	mg/L	20-OCT-20	22-OCT-20	R5266229
Nitrite (as N)	<0.010		0.010	mg/L	20-OCT-20	22-OCT-20	R5266229
Sulfate (SO4)	93.2	RRR	0.30	mg/L	20-OCT-20	22-OCT-20	R5266229

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* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-6 3134 - AQ - SPW20-001-201019 Sampled By: Client on 19-OCT-20 @ 10:15 Matrix: Ground Water							
Anions and Nutrients							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	<0.50		0.50	mg/L		23-OCT-20	R5268262
Total Metals							
Aluminum (Al)-Total	0.0200		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621
Antimony (Sb)-Total	0.00085		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Arsenic (As)-Total	0.00666		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Barium (Ba)-Total	0.0854		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Boron (B)-Total	0.012		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cadmium (Cd)-Total	0.0000092		0.0000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Calcium (Ca)-Total	100		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Cesium (Cs)-Total	0.000260		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Chromium (Cr)-Total	0.00038		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Cobalt (Co)-Total	0.00063		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Copper (Cu)-Total	0.00072		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Iron (Fe)-Total	0.915		0.010	mg/L	21-OCT-20	21-OCT-20	R5263621
Lead (Pb)-Total	0.000214		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Lithium (Li)-Total	0.0022		0.0010	mg/L	21-OCT-20	21-OCT-20	R5263621
Magnesium (Mg)-Total	17.0		0.0050	mg/L	21-OCT-20	21-OCT-20	R5263621
Manganese (Mn)-Total	0.598		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Molybdenum (Mo)-Total	0.00392		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Nickel (Ni)-Total	0.00341		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Phosphorus (P)-Total	<0.050		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Potassium (K)-Total	1.68		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Rubidium (Rb)-Total	0.00256		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Selenium (Se)-Total	0.000050		0.000050	mg/L	21-OCT-20	21-OCT-20	R5263621
Silicon (Si)-Total	5.25		0.10	mg/L	21-OCT-20	21-OCT-20	R5263621
Silver (Ag)-Total	0.000012		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Sodium (Na)-Total	4.66		0.050	mg/L	21-OCT-20	21-OCT-20	R5263621
Strontium (Sr)-Total	1.26		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Sulfur (S)-Total	24.7		0.50	mg/L	21-OCT-20	21-OCT-20	R5263621
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Tin (Sn)-Total	<0.00010		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Titanium (Ti)-Total	0.00046		0.00030	mg/L	21-OCT-20	21-OCT-20	R5263621
Tungsten (W)-Total	0.00857		0.00010	mg/L	21-OCT-20	21-OCT-20	R5263621
Uranium (U)-Total	0.000541		0.000010	mg/L	21-OCT-20	21-OCT-20	R5263621
Vanadium (V)-Total	0.00120		0.00050	mg/L	21-OCT-20	21-OCT-20	R5263621
Zinc (Zn)-Total	0.0267		0.0030	mg/L	21-OCT-20	21-OCT-20	R5263621

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* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-6 3134 - AQ - SPW20-001-201019 Sampled By: Client on 19-OCT-20 @ 10:15 Matrix: Ground Water							
Total Metals							
Zirconium (Zr)-Total	0.00215		0.00020	mg/L	21-OCT-20	21-OCT-20	R5263621
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					22-OCT-20	R5264316
Dissolved Metals Filtration Location	FIELD					21-OCT-20	R5265858
Aluminum (Al)-Dissolved	0.0117		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Antimony (Sb)-Dissolved	0.00082		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Arsenic (As)-Dissolved	0.00636		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Barium (Ba)-Dissolved	0.0856		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Boron (B)-Dissolved	0.012		0.010	mg/L	21-OCT-20	22-OCT-20	R5267319
Cadmium (Cd)-Dissolved	0.0000094		0.0000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Calcium (Ca)-Dissolved	98.7		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Cesium (Cs)-Dissolved	0.000247		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Chromium (Cr)-Dissolved	0.00035		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Cobalt (Co)-Dissolved	0.00060		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Copper (Cu)-Dissolved	0.00048		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Iron (Fe)-Dissolved	0.928		0.010	mg/L	21-OCT-20	22-OCT-20	R5267319
Lead (Pb)-Dissolved	0.000161		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Lithium (Li)-Dissolved	0.0023		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Magnesium (Mg)-Dissolved	15.8		0.0050	mg/L	21-OCT-20	22-OCT-20	R5267319
Manganese (Mn)-Dissolved	0.564		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-OCT-20	24-OCT-20	R5267960
Molybdenum (Mo)-Dissolved	0.00372		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Nickel (Ni)-Dissolved	0.00315		0.00050	mg/L	21-OCT-20	22-OCT-20	R5267319
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Potassium (K)-Dissolved	1.68		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Rubidium (Rb)-Dissolved	0.00249		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Selenium (Se)-Dissolved	0.000084		0.000050	mg/L	21-OCT-20	22-OCT-20	R5267319
Silicon (Si)-Dissolved	5.09		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Sodium (Na)-Dissolved	4.38		0.050	mg/L	21-OCT-20	22-OCT-20	R5267319
Strontium (Sr)-Dissolved	1.18		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Sulfur (S)-Dissolved	27.2		0.50	mg/L	21-OCT-20	22-OCT-20	R5267319
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-OCT-20	22-OCT-20	R5267319
Tungsten (W)-Dissolved	0.00871		0.00010	mg/L	21-OCT-20	22-OCT-20	R5267319
Uranium (U)-Dissolved	0.000523		0.000010	mg/L	21-OCT-20	22-OCT-20	R5267319

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* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2518840-6 3134 - AQ - SPW20-001-201019 Sampled By: Client on 19-OCT-20 @ 10:15 Matrix: Ground Water							
Dissolved Metals							
Vanadium (V)-Dissolved	0.00089		0.00050	mg/L	21-OCT-20	22-OCT-20	R5267319
Zinc (Zn)-Dissolved	0.0292		0.0010	mg/L	21-OCT-20	22-OCT-20	R5267319
Zirconium (Zr)-Dissolved	0.00200		0.00020	mg/L	21-OCT-20	22-OCT-20	R5267319
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		23-OCT-20	R5268215

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* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Laboratory Control Sample	Bromide (Br)	LCS-H	L2518840-1, -2, -3, -4, -5, -6
Laboratory Control Sample	Chloride (Cl)	LCS-H	L2518840-1, -2, -3, -4, -5, -6
Laboratory Control Sample	Fluoride (F)	LCS-H	L2518840-1, -2, -3, -4, -5, -6
Laboratory Control Sample	Nitrite (as N)	LCS-H	L2518840-1, -2, -3, -4, -5, -6
Laboratory Control Sample	Nitrate (as N)	LCS-H	L2518840-1, -2, -3, -4, -5, -6
Laboratory Control Sample	Sulfate (SO4)	LCS-H	L2518840-1, -2, -3, -4, -5, -6
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2518840-1, -2, -5, -6
Matrix Spike	Boron (B)-Dissolved	MS-B	L2518840-1, -2, -5, -6
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2518840-1, -2, -5, -6
Matrix Spike	Iron (Fe)-Dissolved	MS-B	L2518840-1, -2, -5, -6
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2518840-1, -2, -5, -6
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2518840-1, -2, -5, -6
Matrix Spike	Potassium (K)-Dissolved	MS-B	L2518840-1, -2, -5, -6
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L2518840-1, -2, -5, -6
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2518840-1, -2, -5, -6
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2518840-1, -2, -5, -6
Matrix Spike	Barium (Ba)-Total	MS-B	L2518840-1, -2, -3, -4, -5, -6
Matrix Spike	Calcium (Ca)-Total	MS-B	L2518840-1, -2, -3, -4, -5, -6
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2518840-1, -2, -3, -4, -5, -6
Matrix Spike	Manganese (Mn)-Total	MS-B	L2518840-1, -2, -3, -4, -5, -6
Matrix Spike	Sodium (Na)-Total	MS-B	L2518840-1, -2, -3, -4, -5, -6
Matrix Spike	Strontium (Sr)-Total	MS-B	L2518840-1, -2, -3, -4, -5, -6
Matrix Spike	Sulfur (S)-Total	MS-B	L2518840-1, -2, -3, -4, -5, -6

Sample Parameter Qualifier key listed:

Qualifier	Description
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRR	Refer to Report Remarks for issues regarding this analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

C-DOC-HTC-WP	Water	Dissolved Organic Carbon by Combustion	APHA 5310 B-WP

Filtered (0.45 um) sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

C-TOC-HTC-WP	Water	Total Organic Carbon by Combustion	APHA 5310 B-WP

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

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Reference Information

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-PWQO-IC-WT	Water	Chromium +6	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION

HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-T-CVAA-WT	Water	Total Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MEHG-T-GCAF-VA	Water	Total Methylmercury in Water by GCAFS	EPA 1630

This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolized to elemental Hg and quantified by cold vapour atomic flourescence spectroscopy. Results are reported "as MeHg".

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

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Reference Information

		Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.	
P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)
		Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.	
PH-TITR-TB	Water	pH	APHA 4500-H
		This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode	
PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
		Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.	
SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)
		Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.	
TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)
		Aqueous matrices are analyzed using gravimetry and evaporation	
TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821
		Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection	
TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)
		Aqueous matrices are analyzed using gravimetry	

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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Quality Control Report

Workorder: L2518840 Report Date: 26-OCT-20

Client: Gold Canyon Resources Inc.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2
Contact: David Mchaina

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5264311								
WG3428546-3 DUP		**L2518840-2**						
Acidity (as CaCO3)		2.7	2.5		mg/L	6.2	20	21-OCT-20
WG3428546-2 LCS								
Acidity (as CaCO3)			97.0		%		85-115	21-OCT-20
WG3428546-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	21-OCT-20
ALK-TITR-TB	Water							
Batch R5260444								
WG3428091-2 LCS								
Alkalinity, Total (as CaCO3)			103.5		%		85-115	20-OCT-20
WG3428091-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	20-OCT-20
Batch R5265717								
WG3428540-3 DUP		**L2518840-6**						
Alkalinity, Total (as CaCO3)		284	283		mg/L	0.2	20	22-OCT-20
WG3428540-2 LCS								
Alkalinity, Total (as CaCO3)			107.1		%		85-115	22-OCT-20
WG3428540-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	22-OCT-20
BR-IC-N-TB	Water							
Batch R5266229								
WG3428561-2 LCS								
Bromide (Br)			173.8	LCS-H	%		85-115	22-OCT-20
C-DOC-HTC-WP	Water							
Batch R5268262								
WG3430986-10 LCS								
Dissolved Organic Carbon			105.2		%		80-120	23-OCT-20
WG3430986-9 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	23-OCT-20
C-TOC-HTC-WP	Water							
Batch R5268264								
WG3430994-2 LCS								
Total Organic Carbon			104.4		%		80-120	22-OCT-20
WG3430994-1 MB								
Total Organic Carbon			<0.50		mg/L		0.5	22-OCT-20
CL-L-IC-N-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB	Water							
Batch R5266229								
WG3428561-2 LCS								
Chloride (Cl)			115.6	LCS-H	%		90-110	22-OCT-20
WG3428561-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	22-OCT-20
COD-TB	Water							
Batch R5264337								
WG3429154-2 LCS								
Chemical Oxygen Demand			109.2		%		85-115	22-OCT-20
WG3429154-1 MB								
Chemical Oxygen Demand			<20		mg/L		20	22-OCT-20
CR-CR6-DIS-WT	Water							
Batch R5268215								
WG3430831-2 LCS								
Chromium (VI)-Dissolved			100.3		%		70-130	23-OCT-20
WG3430831-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	23-OCT-20
CR-CR6-PWQO-IC-WT	Water							
Batch R5268215								
WG3430831-2 LCS								
Chromium, Hexavalent			100.3		%		80-120	23-OCT-20
WG3430831-1 MB								
Chromium, Hexavalent			<0.50		ug/L		0.5	23-OCT-20
EC-TITR-TB	Water							
Batch R5260444								
WG3428091-2 LCS								
Conductivity (EC)			102.7		%		90-110	20-OCT-20
WG3428091-1 MB								
Conductivity (EC)			1.1		uS/cm		2	20-OCT-20
Batch R5264311								
WG3428546-2 LCS								
Conductivity (EC)			100.4		%		90-110	21-OCT-20
WG3428546-1 MB								
Conductivity (EC)			1.4		uS/cm		2	21-OCT-20
F-IC-N-TB	Water							

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Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-TB	Water							
Batch R5266229								
WG3428561-2 LCS								
Fluoride (F)			115.1	LCS-H	%		90-110	22-OCT-20
WG3428561-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	22-OCT-20
HG-D-CVAA-WT	Water							
Batch R5267959								
WG3430168-2 LCS								
Mercury (Hg)-Dissolved			100.0		%		80-120	24-OCT-20
WG3430168-1 MB								
Mercury (Hg)-Dissolved			<0.000005C		mg/L		0.000005	24-OCT-20
Batch R5267960								
WG3430172-3 DUP		**L2518840-2**						
Mercury (Hg)-Dissolved		<0.0000050	<0.000005C	RPD-NA	mg/L	N/A	20	24-OCT-20
WG3430172-2 LCS								
Mercury (Hg)-Dissolved			103.0		%		80-120	24-OCT-20
WG3430172-1 MB								
Mercury (Hg)-Dissolved			<0.000005C		mg/L		0.000005	24-OCT-20
WG3430172-4 MS		**L2518840-3**						
Mercury (Hg)-Dissolved			103.1		%		70-130	24-OCT-20
HG-T-CVAA-WT	Water							
Batch R5268017								
WG3431011-2 LCS								
Mercury (Hg)-Total			101.0		%		80-120	24-OCT-20
WG3431011-1 MB								
Mercury (Hg)-Total			<0.000005C		mg/L		0.000005	24-OCT-20
MEHG-T-GCAF-VA	Water							
Batch R5267885								
WG3431302-3 LCS								
Methylmercury (as MeHg)-Total			90.8		%		70-130	22-OCT-20
WG3431302-1 MB								
Methylmercury (as MeHg)-Total			<0.000020		ug/L		0.00002	22-OCT-20
MET-D-CCMS-TB	Water							
Batch R5267319								
WG3430032-14 LCS								
Aluminum (Al)-Dissolved			95.6		%		80-120	22-OCT-20
Antimony (Sb)-Dissolved			99.6		%		80-120	22-OCT-20
Arsenic (As)-Dissolved			98.6		%		80-120	22-OCT-20

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5267319								
WG3430032-14 LCS								
Barium (Ba)-Dissolved			100.7		%		80-120	22-OCT-20
Beryllium (Be)-Dissolved			97.4		%		80-120	22-OCT-20
Bismuth (Bi)-Dissolved			95.8		%		80-120	22-OCT-20
Boron (B)-Dissolved			94.7		%		80-120	22-OCT-20
Cadmium (Cd)-Dissolved			99.2		%		80-120	22-OCT-20
Calcium (Ca)-Dissolved			98.4		%		80-120	22-OCT-20
Cesium (Cs)-Dissolved			97.5		%		80-120	22-OCT-20
Chromium (Cr)-Dissolved			93.6		%		80-120	22-OCT-20
Cobalt (Co)-Dissolved			96.6		%		80-120	22-OCT-20
Copper (Cu)-Dissolved			96.2		%		80-120	22-OCT-20
Iron (Fe)-Dissolved			112.3		%		80-120	22-OCT-20
Lead (Pb)-Dissolved			98.3		%		80-120	22-OCT-20
Lithium (Li)-Dissolved			99.9		%		80-120	22-OCT-20
Magnesium (Mg)-Dissolved			97.9		%		80-120	22-OCT-20
Manganese (Mn)-Dissolved			96.4		%		80-120	22-OCT-20
Molybdenum (Mo)-Dissolved			96.8		%		80-120	22-OCT-20
Nickel (Ni)-Dissolved			94.6		%		80-120	22-OCT-20
Phosphorus (P)-Dissolved			98.9		%		80-120	22-OCT-20
Potassium (K)-Dissolved			99.3		%		80-120	22-OCT-20
Rubidium (Rb)-Dissolved			95.4		%		80-120	22-OCT-20
Selenium (Se)-Dissolved			98.4		%		80-120	22-OCT-20
Silicon (Si)-Dissolved			99.0		%		80-120	22-OCT-20
Silver (Ag)-Dissolved			98.2		%		80-120	22-OCT-20
Sodium (Na)-Dissolved			94.7		%		80-120	22-OCT-20
Strontium (Sr)-Dissolved			98.0		%		80-120	22-OCT-20
Sulfur (S)-Dissolved			99.8		%		80-120	22-OCT-20
Tellurium (Te)-Dissolved			102.5		%		80-120	22-OCT-20
Thallium (Tl)-Dissolved			98.4		%		80-120	22-OCT-20
Thorium (Th)-Dissolved			97.7		%		80-120	22-OCT-20
Tin (Sn)-Dissolved			98.8		%		80-120	22-OCT-20
Titanium (Ti)-Dissolved			97.4		%		80-120	22-OCT-20
Tungsten (W)-Dissolved			99.9		%		80-120	22-OCT-20
Uranium (U)-Dissolved			99.0		%		80-120	22-OCT-20
Vanadium (V)-Dissolved			98.0		%		80-120	22-OCT-20

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Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5267319								
WG3430032-14 LCS								
Zinc (Zn)-Dissolved			99.3		%		80-120	22-OCT-20
Zirconium (Zr)-Dissolved			98.6		%		80-120	22-OCT-20
WG3430032-13 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	22-OCT-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	22-OCT-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	22-OCT-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	22-OCT-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	22-OCT-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	22-OCT-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	22-OCT-20
Cadmium (Cd)-Dissolved			<0.0000050		mg/L		0.000005	22-OCT-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	22-OCT-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	22-OCT-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	22-OCT-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	22-OCT-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	22-OCT-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	22-OCT-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	22-OCT-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	22-OCT-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	22-OCT-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	22-OCT-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	22-OCT-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	22-OCT-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	22-OCT-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	22-OCT-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	22-OCT-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	22-OCT-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	22-OCT-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	22-OCT-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	22-OCT-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	22-OCT-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	22-OCT-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	22-OCT-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	22-OCT-20

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5267319								
WG3430032-13 MB								
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	22-OCT-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	22-OCT-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	22-OCT-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	22-OCT-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	22-OCT-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	22-OCT-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	22-OCT-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	22-OCT-20
MET-T-CCMS-TB	Water							
Batch R5263621								
WG3429021-3 DUP		**L2518840-5**						
Aluminum (Al)-Total		0.0115	0.0083	J	mg/L	0.0032	0.006	21-OCT-20
Antimony (Sb)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-OCT-20
Arsenic (As)-Total		0.00058	0.00056		mg/L	1.8	20	21-OCT-20
Barium (Ba)-Total		0.00766	0.00781		mg/L	2.0	20	21-OCT-20
Beryllium (Be)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-OCT-20
Bismuth (Bi)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	21-OCT-20
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	21-OCT-20
Cadmium (Cd)-Total		<0.0000050	<0.0000050	RPD-NA	mg/L	N/A	20	21-OCT-20
Calcium (Ca)-Total		10.5	10.5		mg/L	0.3	20	21-OCT-20
Cesium (Cs)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	21-OCT-20
Chromium (Cr)-Total		0.00011	0.00012		mg/L	14	20	21-OCT-20
Cobalt (Co)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-OCT-20
Copper (Cu)-Total		0.00071	0.00070		mg/L	2.2	20	21-OCT-20
Iron (Fe)-Total		0.025	0.025		mg/L	0.4	20	21-OCT-20
Lead (Pb)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	21-OCT-20
Lithium (Li)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-OCT-20
Magnesium (Mg)-Total		1.53	1.53		mg/L	0.3	20	21-OCT-20
Manganese (Mn)-Total		0.00421	0.00431		mg/L	2.3	20	21-OCT-20
Molybdenum (Mo)-Total		0.000117	0.000098		mg/L	18	20	21-OCT-20
Nickel (Ni)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	21-OCT-20
Phosphorus (P)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	20	21-OCT-20
Potassium (K)-Total		0.641	0.645		mg/L	0.6	20	21-OCT-20
Rubidium (Rb)-Total		0.00165	0.00158		mg/L	4.5	20	21-OCT-20

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5263621								
WG3429021-3 DUP		**L2518840-5**						
Selenium (Se)-Total		0.000079	0.000051	J	mg/L	0.000027	0.0001	21-OCT-20
Silicon (Si)-Total		1.12	1.10		mg/L	1.5	20	21-OCT-20
Silver (Ag)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	21-OCT-20
Sodium (Na)-Total		0.686	0.692		mg/L	0.9	20	21-OCT-20
Strontium (Sr)-Total		0.0256	0.0253		mg/L	0.9	20	21-OCT-20
Sulfur (S)-Total		0.92	0.89		mg/L	3.4	20	21-OCT-20
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-OCT-20
Thallium (Tl)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	21-OCT-20
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-OCT-20
Tin (Sn)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-OCT-20
Titanium (Ti)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	21-OCT-20
Tungsten (W)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-OCT-20
Uranium (U)-Total		0.000012	0.000012		mg/L	0.1	20	21-OCT-20
Vanadium (V)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	21-OCT-20
Zinc (Zn)-Total		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	21-OCT-20
Zirconium (Zr)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-OCT-20
WG3429021-2 LCS								
Aluminum (Al)-Total			100.9		%		80-120	21-OCT-20
Antimony (Sb)-Total			101.3		%		80-120	21-OCT-20
Arsenic (As)-Total			104.6		%		80-120	21-OCT-20
Barium (Ba)-Total			103.8		%		80-120	21-OCT-20
Beryllium (Be)-Total			96.5		%		80-120	21-OCT-20
Bismuth (Bi)-Total			100.2		%		80-120	21-OCT-20
Boron (B)-Total			90.7		%		80-120	21-OCT-20
Cadmium (Cd)-Total			100.3		%		80-120	21-OCT-20
Calcium (Ca)-Total			99.2		%		80-120	21-OCT-20
Cesium (Cs)-Total			102.6		%		80-120	21-OCT-20
Chromium (Cr)-Total			100.4		%		80-120	21-OCT-20
Cobalt (Co)-Total			98.5		%		80-120	21-OCT-20
Copper (Cu)-Total			98.1		%		80-120	21-OCT-20
Iron (Fe)-Total			109.2		%		80-120	21-OCT-20
Lead (Pb)-Total			97.4		%		80-120	21-OCT-20
Lithium (Li)-Total			93.4		%		80-120	21-OCT-20
Magnesium (Mg)-Total			102.7		%		80-120	21-OCT-20

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Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5263621								
WG3429021-2 LCS								
Manganese (Mn)-Total			99.8		%		80-120	21-OCT-20
Molybdenum (Mo)-Total			99.3		%		80-120	21-OCT-20
Nickel (Ni)-Total			97.5		%		80-120	21-OCT-20
Phosphorus (P)-Total			101.3		%		80-120	21-OCT-20
Potassium (K)-Total			100.5		%		80-120	21-OCT-20
Rubidium (Rb)-Total			100.6		%		80-120	21-OCT-20
Selenium (Se)-Total			102.6		%		80-120	21-OCT-20
Silicon (Si)-Total			103.0		%		80-120	21-OCT-20
Silver (Ag)-Total			100.8		%		80-120	21-OCT-20
Sodium (Na)-Total			100.8		%		80-120	21-OCT-20
Strontium (Sr)-Total			102.9		%		80-120	21-OCT-20
Sulfur (S)-Total			96.6		%		80-120	21-OCT-20
Tellurium (Te)-Total			100.5		%		80-120	21-OCT-20
Thallium (Tl)-Total			98.6		%		80-120	21-OCT-20
Thorium (Th)-Total			100.9		%		80-120	21-OCT-20
Tin (Sn)-Total			100.3		%		80-120	21-OCT-20
Titanium (Ti)-Total			96.9		%		80-120	21-OCT-20
Tungsten (W)-Total			102.7		%		80-120	21-OCT-20
Uranium (U)-Total			104.0		%		80-120	21-OCT-20
Vanadium (V)-Total			98.9		%		80-120	21-OCT-20
Zinc (Zn)-Total			99.6		%		80-120	21-OCT-20
Zirconium (Zr)-Total			100.2		%		80-120	21-OCT-20
WG3429021-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	21-OCT-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	21-OCT-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	21-OCT-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	21-OCT-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	21-OCT-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	21-OCT-20
Boron (B)-Total			<0.010		mg/L		0.01	21-OCT-20
Cadmium (Cd)-Total			<0.000005C		mg/L		0.000005	21-OCT-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	21-OCT-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	21-OCT-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	21-OCT-20

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Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5263621								
WG3429021-1 MB								
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	21-OCT-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	21-OCT-20
Iron (Fe)-Total			<0.010		mg/L		0.01	21-OCT-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	21-OCT-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	21-OCT-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	21-OCT-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	21-OCT-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	21-OCT-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	21-OCT-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	21-OCT-20
Potassium (K)-Total			<0.050		mg/L		0.05	21-OCT-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	21-OCT-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	21-OCT-20
Silicon (Si)-Total			<0.10		mg/L		0.1	21-OCT-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	21-OCT-20
Sodium (Na)-Total			<0.050		mg/L		0.05	21-OCT-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	21-OCT-20
Sulfur (S)-Total			<0.50		mg/L		0.5	21-OCT-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	21-OCT-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	21-OCT-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	21-OCT-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	21-OCT-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	21-OCT-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	21-OCT-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	21-OCT-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	21-OCT-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	21-OCT-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	21-OCT-20
WG3429021-4 MS		**L2518840-6**						
Aluminum (Al)-Total			100.8		%		70-130	21-OCT-20
Antimony (Sb)-Total			107.1		%		70-130	21-OCT-20
Arsenic (As)-Total			104.3		%		70-130	21-OCT-20
Barium (Ba)-Total			N/A	MS-B	%		-	21-OCT-20
Beryllium (Be)-Total			98.3		%		70-130	21-OCT-20

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5263621								
WG3429021-4 MS		**L2518840-6**						
Bismuth (Bi)-Total			99.1		%		70-130	21-OCT-20
Boron (B)-Total			104.7		%		70-130	21-OCT-20
Cadmium (Cd)-Total			99.6		%		70-120	21-OCT-20
Calcium (Ca)-Total			N/A	MS-B	%		-	21-OCT-20
Cesium (Cs)-Total			106.6		%		70-130	21-OCT-20
Chromium (Cr)-Total			101.2		%		70-130	21-OCT-20
Cobalt (Co)-Total			99.0		%		70-130	21-OCT-20
Copper (Cu)-Total			98.3		%		70-130	21-OCT-20
Iron (Fe)-Total			93.8		%		70-130	21-OCT-20
Lead (Pb)-Total			97.6		%		70-130	21-OCT-20
Lithium (Li)-Total			98.0		%		70-130	21-OCT-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	21-OCT-20
Manganese (Mn)-Total			N/A	MS-B	%		-	21-OCT-20
Molybdenum (Mo)-Total			109.4		%		70-130	21-OCT-20
Nickel (Ni)-Total			97.7		%		70-130	21-OCT-20
Phosphorus (P)-Total			104.6		%		70-130	21-OCT-20
Potassium (K)-Total			96.9		%		70-130	21-OCT-20
Rubidium (Rb)-Total			100.7		%		70-130	21-OCT-20
Selenium (Se)-Total			105.7		%		70-130	21-OCT-20
Silicon (Si)-Total			92.8		%		70-130	21-OCT-20
Silver (Ag)-Total			100.1		%		70-130	21-OCT-20
Sodium (Na)-Total			N/A	MS-B	%		-	21-OCT-20
Strontium (Sr)-Total			N/A	MS-B	%		-	21-OCT-20
Sulfur (S)-Total			N/A	MS-B	%		-	21-OCT-20
Tellurium (Te)-Total			107.4		%		70-130	21-OCT-20
Thallium (Tl)-Total			99.0		%		70-130	21-OCT-20
Thorium (Th)-Total			104.3		%		70-130	21-OCT-20
Tin (Sn)-Total			106.8		%		70-130	21-OCT-20
Titanium (Ti)-Total			102.9		%		70-130	21-OCT-20
Tungsten (W)-Total			106.6		%		70-130	21-OCT-20
Uranium (U)-Total			105.7		%		70-130	21-OCT-20
Vanadium (V)-Total			100.9		%		70-130	21-OCT-20
Zinc (Zn)-Total			97.0		%		70-130	21-OCT-20
Zirconium (Zr)-Total			106.1		%		70-130	21-OCT-20

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Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-F-TB	Water							
Batch R5263998								
WG3429130-2 LCS								
Ammonia, Total (as N)			97.5		%		85-115	22-OCT-20
WG3429130-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	22-OCT-20
NO2-IC-N-TB	Water							
Batch R5266229								
WG3428561-2 LCS								
Nitrite (as N)			111.8	LCS-H	%		90-110	22-OCT-20
WG3428561-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	22-OCT-20
NO3-IC-N-TB	Water							
Batch R5266229								
WG3428561-2 LCS								
Nitrate (as N)			119.4	LCS-H	%		90-110	22-OCT-20
WG3428561-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	22-OCT-20
P-T-COL-TB	Water							
Batch R5267857								
WG3429118-2 LCS								
Phosphorus (P)-Total			103.8		%		80-120	22-OCT-20
WG3429118-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	22-OCT-20
PH-TITR-TB	Water							
Batch R5260444								
WG3428091-2 LCS								
pH			6.98		pH		6.9-7.1	20-OCT-20
Batch R5264311								
WG3428546-2 LCS								
pH			6.97		pH		6.9-7.1	21-OCT-20
PO4-DO-COL-TB	Water							
Batch R5265199								
WG3428555-3 DUP		**L2518840-2**						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	21-OCT-20
WG3428555-2 LCS								
Orthophosphate-Dissolved (as P)			97.5		%		80-120	21-OCT-20

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Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PO4-DO-COL-TB	Water							
Batch R5265199								
WG3428555-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	21-OCT-20
WG3428555-4 MS		**L2518840-4**						
Orthophosphate-Dissolved (as P)			93.4		%		70-130	21-OCT-20
SO4-IC-N-TB	Water							
Batch R5266229								
WG3428561-2 LCS								
Sulfate (SO4)			118.9	LCS-H	%		90-110	22-OCT-20
WG3428561-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	22-OCT-20
TDS-TB	Water							
Batch R5263861								
WG3429120-2 LCS								
Total Dissolved Solids			99.2		%		85-115	21-OCT-20
WG3429120-1 MB								
Total Dissolved Solids			<10		mg/L		10	21-OCT-20
TKN-F-TB	Water							
Batch R5263221								
WG3429052-2 LCS								
Total Kjeldahl Nitrogen			104.5		%		75-125	21-OCT-20
WG3429052-1 MB								
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	21-OCT-20
TSS-TB	Water							
Batch R5263480								
WG3429116-2 LCS								
Total Suspended Solids			88.2		%		85-115	21-OCT-20
WG3429116-1 MB								
Total Suspended Solids			<3.0		mg/L		3	21-OCT-20

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2518840-COFC

COC Number: 17 -

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Report To	Contact and company name below will appear on the final report	Report Format / Distribution		Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:	Gold Canyon Resources Inc.	Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)		Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	David Mchaina	Quality Control (QC) Report with Report ☐ YES ☐ NO		PRIORITY (Business Days): 4 day [P4-20%] ☐ / 3 day [P3-25%] ☐ / 2 day [P2-50%] ☒
Phone:	519-241-9655	☐ Compare Results to Criteria on Report - provide details below if box checked		EMERGENCY: 1 Business day [E - 100%] ☐ / Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐
	Company address below will appear on the final report	Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX		Date and Time Required for all E&P TATs:
Street:	c/o Suite 1805 - 925 West Georgia	Email 1	dmchaina@firstmininggold.com	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:	Vancouver, BC	Email 2	shila@firstmininggold.com	
Postal Code:	V6C 3L2	Email 3	shaun@firstmininggold.com	
Invoice To	Same as Report To ☑ YES ☐ NO	Invoice Distribution		
	Copy of Invoice with Report ☑ YES ☐ NO	Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX		
Company:		Email 1 or Fax	accountspayable@firstmininggold.com	
Contact:		Email 2	dmchaina@firstmininggold.com	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	20864 / Q64154	AFE/Cost Center:	PO#
Job #:	Springpole Pump Test	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:	First Mining Gold Project	Location:	
ALS Lab Work Order # (lab use only):	L2518840	ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	Dissolved Metals, Total CRB	Dissolved Mercury	F, NO2,NO3, pH, SO4	TDS / TSS	Ion Balance	General Water Chm	DOC / TOC	Total phosphorus	Ammonia	Phosphate	Chloride, Sulphate	Total Hg	Diss. Chromium, Total Cr, Total Methyl Hg	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-AQ-Lake1-201018	18-10-20	12:15	Surface W	10	✓	D/T	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	D/T	✓	
	3134-AQ-Lake2-201018	18-10-20	12:30	Surface W	10	✓	D/T	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	D/T	✓	
	3134-AQ-SPW20-001-201018	18-10-20	18:00	Ground water	5	✓	D/T	✓	✓			✓	DOC						D		
	—	—	—																		
	3134-AQ-Lake1-201019	19-10-20	8:15	Surface W	10	✓	D/T	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	D/T	✓	
	3134-AQ-Lake2-201019	19-10-20	8:30	Surface W	10	✓	D/T	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	D/T	✓	
	3134-AQ-SPW20-001-201019	19-10-20	10:15	Ground water	6	✓	D/T	✓	✓			✓	DOC						D		

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐	SIF Observations	Yes ☐	No	☐
Ice Packs	☒ Ice Cubes ☐	Custody seal intact	Yes ☐	No	☐
Cooling Initiated	☐				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
3.0							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
	Oct 20 / 20	8:00		Oct 20 20	10:37			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

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Report To	Contact and company name below will appear on the final report	Report Format / Distribution		Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)	
Company:	Gold Canyon Resources Inc.	Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)		Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply	
Contact:	David Mchaina	Quality Control (QC) Report with Report ☐ YES ☐ NO		PRIORITY (Business Days): 4 day [P4-20%] ☐ / 3 day [P3-25%] ☐ / 2 day [P2-50%] ☐	EMERGENCY: 1 Business day [E - 100%] ☐ / Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐
Phone:	519-241-9655	☐ Compare Results to Criteria on Report - provide details below if box checked		Date and Time Required for all E&P TATs:	
	Company address below will appear on the final report	Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX		For tests that can not be performed according to the service level selected, you will be contacted.	
Street:	c/o Suite 1805 - 925 West Georgia	Email 1	dmchaina@firstmininggold.com		
City/Province:	Vancouver, BC	Email 2	shila@firstmininggold.com		
Postal Code:	V6C 3L2	Email 3	shaun@firstmininggold.com		
Invoice To	Same as Report To ☑ YES ☐ NO	Invoice Distribution			
	Copy of Invoice with Report ☑ YES ☐ NO	Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX			
Company:		Email 1 or Fax	accountspayable@firstmininggold.com		
Contact:		Email 2	dmchaina@firstmininggold.com		

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	20864 / Q64154	AFE/Cost Center:	PO#
Job #:	Springpole Pump Test	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:	First Mining Gold Project	Location:	
ALS Lab Work Order # (lab use only):		ALS Contact:	Sampler:

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	Dissolved Metals, Total Metals, Total CR6	Dissolved Mercury	F, NO2,NO3, pH, SO4	TDS / TSS	Ion Balance	General Water Chm	DOC / TOC	Total phosphorus	Ammonia	Phosphate	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-AQ-Lake1-201018	18-10-20	12:15	Surface W	10	✓	D/T	✓	✓	✓		✓	✓	✓	✓	✓		
	3134-AQ-Lake2-201018	18-10-20	12:30	Surface W	10	✓	D/T	✓	✓	✓		✓	✓	✓	✓	✓		
	3134-AQ-SPW20-001-201018	18-10-20	18:00	Ground Water	5	✓	D/T	✓	✓			✓						
	—	—	—															
	3134-AQ-Lake1-201019	19-10-20	8:15	Surface W	10	✓	D/T	✓	✓	✓		✓	✓	✓	✓	✓		
	3134-AQ-Lake2-201019	19-10-20	8:30	Surface W	10	✓	D/T	✓	✓	✓		✓	✓	✓	✓	✓		
	3134-AQ-SPW20-001-201019	19-10-20	10:15	Ground Water	6	✓	D/T	✓	✓			✓						

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐	SIF Observations	Yes ☐	No	☐
Ice Packs	☑ Ice Cubes ☐	Custody seal intact	Yes ☐	No	☐
Cooling Initiated	☐				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
3.0							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
	Oct 19/20	10:36		Oct 20/20	10:37			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: David Mchaina
c/ o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 24- OCT- 20
Report Date: 09- NOV- 20 20:55 (MT)
Version: FINAL

Client Phone: 705- 929- 5245

Certificate of Analysis

Lab Work Order #: L2521162

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGHOLE PUMP TEST
C of C Numbers:
Legal Site Desc:

Christine Paradis
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-1 3134-AQ-LAKE1-201020 Sampled By: Client on 20-OCT-20 @ 09:30 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	69.2		1.0	uS/cm		26-OCT-20	R5268673
Hardness (as CaCO3)	32.0		0.50	mg/L		02-NOV-20	
pH	7.55		0.10	pH		26-OCT-20	R5268673
Total Suspended Solids	<3.0		3.0	mg/L		27-OCT-20	R5270029
Total Dissolved Solids	43		13	mg/L		27-OCT-20	R5270171
Anions and Nutrients							
Acceptable % Difference	PASS					02-NOV-20	
Acidity (as CaCO3)	2.1		2.0	mg/L		27-OCT-20	R5269871
Alkalinity, Total (as CaCO3)	34.0		2.0	mg/L		26-OCT-20	R5268673
Ammonia, Total (as N)	0.0408		0.0050	mg/L	29-OCT-20	30-OCT-20	R5272006
Bromide (Br)	<0.10		0.10	mg/L	25-OCT-20	26-OCT-20	R5269253
Chloride (Cl)	0.20		0.10	mg/L	25-OCT-20	26-OCT-20	R5269253
Fluoride (F)	0.030		0.020	mg/L	25-OCT-20	26-OCT-20	R5269253
Nitrate (as N)	<0.020		0.020	mg/L	25-OCT-20	26-OCT-20	R5269253
Nitrite (as N)	<0.010		0.010	mg/L	25-OCT-20	26-OCT-20	R5269253
Total Kjeldahl Nitrogen	0.369		0.050	mg/L	29-OCT-20	03-NOV-20	R5277177
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	25-OCT-20	26-OCT-20	R5269623
Phosphorus (P)-Total	0.0095		0.0030	mg/L	29-OCT-20	30-OCT-20	R5272018
Sulfate (SO4)	2.01		0.30	mg/L	25-OCT-20	26-OCT-20	R5269253
Anion Sum	0.73			meq/L		02-NOV-20	
Cation Sum	0.69			meq/L		02-NOV-20	
Cation - Anion Balance	-2.4			%		02-NOV-20	
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				20-OCT-20	03-NOV-20	R5276785
Dissolved Organic Carbon	8.55		0.50	mg/L	20-OCT-20	04-NOV-20	R5279956
Total Organic Carbon	8.99		0.50	mg/L		30-OCT-20	R5272683
Total Metals							
Aluminum (Al)-Total	0.0076		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Arsenic (As)-Total	0.00056		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Barium (Ba)-Total	0.00784		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Boron (B)-Total	<0.010		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Calcium (Ca)-Total	10.4		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Chromium (Cr)-Total	0.00021		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Copper (Cu)-Total	0.00070		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Iron (Fe)-Total	0.031		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Lead (Pb)-Total	<0.000050		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-1 3134-AQ-LAKE1-201020 Sampled By: Client on 20-OCT-20 @ 09:30 Matrix: Surface Water							
Total Metals							
Lithium (Li)-Total	<0.0010		0.0010	mg/L	29-OCT-20	29-OCT-20	R5271848
Magnesium (Mg)-Total	1.55		0.0050	mg/L	29-OCT-20	29-OCT-20	R5271848
Manganese (Mn)-Total	0.00536		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		29-OCT-20	R5270940
Molybdenum (Mo)-Total	0.000115		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Phosphorus (P)-Total	<0.050		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Potassium (K)-Total	0.656		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Rubidium (Rb)-Total	0.00172		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Selenium (Se)-Total	0.000091		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Silicon (Si)-Total	1.03		0.10	mg/L	29-OCT-20	29-OCT-20	R5271848
Silver (Ag)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Sodium (Na)-Total	0.722		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Strontium (Sr)-Total	0.0280		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Sulfur (S)-Total	0.80		0.50	mg/L	29-OCT-20	29-OCT-20	R5271848
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Thorium (Th)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Tin (Sn)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	29-OCT-20	29-OCT-20	R5271848
Tungsten (W)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Uranium (U)-Total	0.000012		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Vanadium (V)-Total	<0.00050		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					28-OCT-20	R5270288
Dissolved Metals Filtration Location	FIELD					30-OCT-20	R5272659
Aluminum (Al)-Dissolved	0.0020		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Arsenic (As)-Dissolved	0.00052		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Barium (Ba)-Dissolved	0.00740		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-OCT-20	30-OCT-20	R5272750
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Calcium (Ca)-Dissolved	10.3		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Copper (Cu)-Dissolved	0.00060		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-1 3134-AQ-LAKE1-201020 Sampled By: Client on 20-OCT-20 @ 09:30 Matrix: Surface Water							
Dissolved Metals							
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	30-OCT-20	30-OCT-20	R5272750
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Magnesium (Mg)-Dissolved	1.54		0.0050	mg/L	30-OCT-20	30-OCT-20	R5272750
Manganese (Mn)-Dissolved	0.00152		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	28-OCT-20	29-OCT-20	R5271090
Molybdenum (Mo)-Dissolved	0.000102		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	30-OCT-20	30-OCT-20	R5272750
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Potassium (K)-Dissolved	0.654		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Rubidium (Rb)-Dissolved	0.00164		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Selenium (Se)-Dissolved	0.000070		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Silicon (Si)-Dissolved	1.06		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Sodium (Na)-Dissolved	0.781		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Strontium (Sr)-Dissolved	0.0270		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Sulfur (S)-Dissolved	0.56		0.50	mg/L	30-OCT-20	30-OCT-20	R5272750
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-OCT-20	30-OCT-20	R5272750
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Uranium (U)-Dissolved	0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-OCT-20	30-OCT-20	R5272750
Zinc (Zn)-Dissolved	0.0010		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		28-OCT-20	R5271111
Chromium, Hexavalent	<0.50		0.50	ug/L		28-OCT-20	R5271268
Aggregate Organics							
Chemical Oxygen Demand	29		20	mg/L	29-OCT-20	30-OCT-20	R5271878
L2521162-2 3134-AQ-LAKE2-201020 Sampled By: Client on 20-OCT-20 @ 09:40 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	66.8		1.0	uS/cm		26-OCT-20	R5268673
Hardness (as CaCO3)	30.6		0.50	mg/L		02-NOV-20	
pH	7.45		0.10	pH		26-OCT-20	R5268673
Total Suspended Solids	<3.0		3.0	mg/L		27-OCT-20	R5270029
Total Dissolved Solids	43		13	mg/L		27-OCT-20	R5270171
Anions and Nutrients							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-2 3134-AQ-LAKE2-201020 Sampled By: Client on 20-OCT-20 @ 09:40 Matrix: Surface Water							
Anions and Nutrients							
Acceptable % Difference	PASS					02-NOV-20	
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-OCT-20	R5269871
Alkalinity, Total (as CaCO3)	32.4		2.0	mg/L		26-OCT-20	R5268673
Ammonia, Total (as N)	<0.0050		0.0050	mg/L	29-OCT-20	30-OCT-20	R5272006
Bromide (Br)	<0.10		0.10	mg/L	25-OCT-20	26-OCT-20	R5269253
Chloride (Cl)	0.21		0.10	mg/L	25-OCT-20	26-OCT-20	R5269253
Fluoride (F)	0.029		0.020	mg/L	25-OCT-20	26-OCT-20	R5269253
Nitrate (as N)	0.034		0.020	mg/L	25-OCT-20	26-OCT-20	R5269253
Nitrite (as N)	<0.010		0.010	mg/L	25-OCT-20	26-OCT-20	R5269253
Total Kjeldahl Nitrogen	0.323		0.050	mg/L	29-OCT-20	03-NOV-20	R5277177
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	25-OCT-20	26-OCT-20	R5269623
Phosphorus (P)-Total	0.0084		0.0030	mg/L	29-OCT-20	30-OCT-20	R5272018
Sulfate (SO4)	1.63		0.30	mg/L	25-OCT-20	26-OCT-20	R5269253
Anion Sum	0.69			meq/L		02-NOV-20	
Cation Sum	0.66			meq/L		02-NOV-20	
Cation - Anion Balance	-2.4			%		02-NOV-20	
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				20-OCT-20	03-NOV-20	R5276785
Dissolved Organic Carbon	8.44		0.50	mg/L	20-OCT-20	04-NOV-20	R5279956
Total Organic Carbon	8.97		0.50	mg/L		30-OCT-20	R5272683
Total Metals							
Aluminum (Al)-Total	0.0081		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Arsenic (As)-Total	0.00057		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Barium (Ba)-Total	0.00761		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Boron (B)-Total	<0.010		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Calcium (Ca)-Total	10.0		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Chromium (Cr)-Total	0.00017		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Copper (Cu)-Total	0.00073		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Iron (Fe)-Total	0.027		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Lead (Pb)-Total	<0.000050		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Lithium (Li)-Total	<0.0010		0.0010	mg/L	29-OCT-20	29-OCT-20	R5271848
Magnesium (Mg)-Total	1.48		0.0050	mg/L	29-OCT-20	29-OCT-20	R5271848
Manganese (Mn)-Total	0.00436		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		29-OCT-20	R5270940
Molybdenum (Mo)-Total	0.000106		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-2 3134-AQ-LAKE2-201020 Sampled By: Client on 20-OCT-20 @ 09:40 Matrix: Surface Water							
Total Metals							
Nickel (Ni)-Total	0.00074		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Phosphorus (P)-Total	<0.050		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Potassium (K)-Total	0.657		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Rubidium (Rb)-Total	0.00161		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Selenium (Se)-Total	0.000098		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Silicon (Si)-Total	1.03		0.10	mg/L	29-OCT-20	29-OCT-20	R5271848
Silver (Ag)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Sodium (Na)-Total	0.686		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Strontium (Sr)-Total	0.0247		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Sulfur (S)-Total	0.54		0.50	mg/L	29-OCT-20	29-OCT-20	R5271848
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Thorium (Th)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Tin (Sn)-Total	0.00015		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	29-OCT-20	29-OCT-20	R5271848
Tungsten (W)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Uranium (U)-Total	0.000011		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Vanadium (V)-Total	<0.00050		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					28-OCT-20	R5270288
Dissolved Metals Filtration Location	FIELD					30-OCT-20	R5272659
Aluminum (Al)-Dissolved	0.0022		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Arsenic (As)-Dissolved	0.00051		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Barium (Ba)-Dissolved	0.00706		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-OCT-20	30-OCT-20	R5272750
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Calcium (Ca)-Dissolved	9.91		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Chromium (Cr)-Dissolved	0.00021		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Copper (Cu)-Dissolved	0.00061		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	30-OCT-20	30-OCT-20	R5272750
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Magnesium (Mg)-Dissolved	1.42		0.0050	mg/L	30-OCT-20	30-OCT-20	R5272750
Manganese (Mn)-Dissolved	0.00040		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-2 3134-AQ-LAKE2-201020 Sampled By: Client on 20-OCT-20 @ 09:40 Matrix: Surface Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	28-OCT-20	29-OCT-20	R5271090
Molybdenum (Mo)-Dissolved	0.000093		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	30-OCT-20	30-OCT-20	R5272750
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Potassium (K)-Dissolved	0.644		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Rubidium (Rb)-Dissolved	0.00168		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Selenium (Se)-Dissolved	0.000068		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Silicon (Si)-Dissolved	1.05		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Sodium (Na)-Dissolved	0.691		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Strontium (Sr)-Dissolved	0.0233		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	30-OCT-20	30-OCT-20	R5272750
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-OCT-20	30-OCT-20	R5272750
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Uranium (U)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-OCT-20	30-OCT-20	R5272750
Zinc (Zn)-Dissolved	0.0012		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		28-OCT-20	R5271111
Chromium, Hexavalent	<0.50		0.50	ug/L		28-OCT-20	R5271268
Aggregate Organics							
Chemical Oxygen Demand	26		20	mg/L	29-OCT-20	30-OCT-20	R5271878
L2521162-3 3134-AQ-SPW20-001-201020 Sampled By: Client on 20-OCT-20 @ 10:30 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	712		1.0	uS/cm		26-OCT-20	R5268673
Hardness (as CaCO3)	342		0.50	mg/L		02-NOV-20	
pH	7.72		0.10	pH		26-OCT-20	R5268673
Total Suspended Solids	<3.0		3.0	mg/L		27-OCT-20	R5270029
Total Dissolved Solids	486		20	mg/L		27-OCT-20	R5270171
Anions and Nutrients							
Acceptable % Difference	PASS					02-NOV-20	
Acidity (as CaCO3)	5.0		2.0	mg/L		27-OCT-20	R5269871
Alkalinity, Total (as CaCO3)	262		2.0	mg/L		26-OCT-20	R5268673
Bromide (Br)	<0.10		0.10	mg/L	26-OCT-20	27-OCT-20	R5270178
Chloride (Cl)	11.7		0.10	mg/L	26-OCT-20	27-OCT-20	R5270178

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-3 3134-AQ-SPW20-001-201020 Sampled By: Client on 20-OCT-20 @ 10:30 Matrix: Ground Water							
Anions and Nutrients							
Fluoride (F)	0.105		0.020	mg/L	26-OCT-20	27-OCT-20	R5270178
Nitrate (as N)	<0.020		0.020	mg/L	26-OCT-20	27-OCT-20	R5270178
Nitrite (as N)	<0.010		0.010	mg/L	26-OCT-20	27-OCT-20	R5270178
Sulfate (SO4)	123		0.30	mg/L	26-OCT-20	27-OCT-20	R5270178
Anion Sum	8.14			meq/L		02-NOV-20	
Cation Sum	7.31			meq/L		02-NOV-20	
Cation - Anion Balance	-5.3			%		02-NOV-20	
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				20-OCT-20	03-NOV-20	R5276785
Dissolved Organic Carbon	7.44		0.50	mg/L	20-OCT-20	04-NOV-20	R5279956
Total Metals							
Aluminum (Al)-Total	0.0425		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848
Antimony (Sb)-Total	0.00093		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Arsenic (As)-Total	0.00497		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Barium (Ba)-Total	0.0931		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Boron (B)-Total	0.015		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cadmium (Cd)-Total	0.0000061		0.0000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Calcium (Ca)-Total	113		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Cesium (Cs)-Total	0.000315		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Chromium (Cr)-Total	0.00039		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cobalt (Co)-Total	0.00073		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Copper (Cu)-Total	0.00060		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Iron (Fe)-Total	1.23		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Lead (Pb)-Total	0.000257		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Lithium (Li)-Total	0.0024		0.0010	mg/L	29-OCT-20	29-OCT-20	R5271848
Magnesium (Mg)-Total	16.9		0.0050	mg/L	29-OCT-20	29-OCT-20	R5271848
Manganese (Mn)-Total	0.574		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Molybdenum (Mo)-Total	0.00350		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Nickel (Ni)-Total	0.00341		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Phosphorus (P)-Total	<0.050		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Potassium (K)-Total	1.82		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Rubidium (Rb)-Total	0.00257		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Selenium (Se)-Total	<0.000050		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Silicon (Si)-Total	5.35		0.10	mg/L	29-OCT-20	29-OCT-20	R5271848
Silver (Ag)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Sodium (Na)-Total	8.39		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Strontium (Sr)-Total	1.97		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Sulfur (S)-Total	42.6		0.50	mg/L	29-OCT-20	29-OCT-20	R5271848
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-3 3134-AQ-SPW20-001-201020 Sampled By: Client on 20-OCT-20 @ 10:30 Matrix: Ground Water							
Total Metals							
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Thorium (Th)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Tin (Sn)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Titanium (Ti)-Total	<0.00063	DLM	0.00063	mg/L	29-OCT-20	29-OCT-20	R5271848
Tungsten (W)-Total	0.00786		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Uranium (U)-Total	0.000530		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Vanadium (V)-Total	0.00121		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Zinc (Zn)-Total	0.0226		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848
Zirconium (Zr)-Total	0.00240		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Dissolved Metals							
Dissolved Mercury Filtration Location	LAB					28-OCT-20	R5270288
Dissolved Metals Filtration Location	FIELD					30-OCT-20	R5272659
Aluminum (Al)-Dissolved	0.0102		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Antimony (Sb)-Dissolved	0.00086		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Arsenic (As)-Dissolved	0.00484		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Barium (Ba)-Dissolved	0.0860		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Boron (B)-Dissolved	0.016		0.010	mg/L	30-OCT-20	30-OCT-20	R5272750
Cadmium (Cd)-Dissolved	0.0000081		0.0000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Calcium (Ca)-Dissolved	110		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Cesium (Cs)-Dissolved	0.000288		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Chromium (Cr)-Dissolved	0.00036		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Cobalt (Co)-Dissolved	0.00050		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Copper (Cu)-Dissolved	0.00030		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Iron (Fe)-Dissolved	0.929		0.010	mg/L	30-OCT-20	30-OCT-20	R5272750
Lead (Pb)-Dissolved	0.000185		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Lithium (Li)-Dissolved	0.0025		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Magnesium (Mg)-Dissolved	16.2		0.0050	mg/L	30-OCT-20	30-OCT-20	R5272750
Manganese (Mn)-Dissolved	0.559		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	28-OCT-20	29-OCT-20	R5271090
Molybdenum (Mo)-Dissolved	0.00327		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Nickel (Ni)-Dissolved	0.00262		0.00050	mg/L	30-OCT-20	30-OCT-20	R5272750
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Potassium (K)-Dissolved	1.80		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Rubidium (Rb)-Dissolved	0.00255		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Selenium (Se)-Dissolved	0.000066		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Silicon (Si)-Dissolved	5.33		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Sodium (Na)-Dissolved	8.35		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Strontium (Sr)-Dissolved	1.86		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-3 3134-AQ-SPW20-001-201020 Sampled By: Client on 20-OCT-20 @ 10:30 Matrix: Ground Water							
Dissolved Metals							
Sulfur (S)-Dissolved	41.9		0.50	mg/L	30-OCT-20	30-OCT-20	R5272750
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-OCT-20	30-OCT-20	R5272750
Tungsten (W)-Dissolved	0.00745		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Uranium (U)-Dissolved	0.000476		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Vanadium (V)-Dissolved	0.00103		0.00050	mg/L	30-OCT-20	30-OCT-20	R5272750
Zinc (Zn)-Dissolved	0.0207		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Zirconium (Zr)-Dissolved	0.00222		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		28-OCT-20	R5271111
L2521162-4 3134-AQ-LAKE1-201021 Sampled By: Client on 21-OCT-20 @ 13:40 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	72.2		1.0	uS/cm		24-OCT-20	R5268227
Hardness (as CaCO3)	30.7		0.50	mg/L		02-NOV-20	
pH	7.58		0.10	pH		24-OCT-20	R5268227
Total Suspended Solids	<3.0		3.0	mg/L		28-OCT-20	R5270847
Total Dissolved Solids	47		13	mg/L		28-OCT-20	R5270976
Anions and Nutrients							
Acceptable % Difference	PASS					02-NOV-20	
Acidity (as CaCO3)	2.0		2.0	mg/L		27-OCT-20	R5269871
Alkalinity, Total (as CaCO3)	33.3		2.0	mg/L		24-OCT-20	R5268227
Ammonia, Total (as N)	0.320		0.0050	mg/L	29-OCT-20	30-OCT-20	R5272006
Bromide (Br)	<0.10		0.10	mg/L	26-OCT-20	28-OCT-20	R5270902
Chloride (Cl)	<0.42		0.42	mg/L	26-OCT-20	28-OCT-20	R5270902
Fluoride (F)	0.032		0.020	mg/L	26-OCT-20	28-OCT-20	R5270902
Nitrate (as N)	0.043		0.020	mg/L	26-OCT-20	28-OCT-20	R5270902
Nitrite (as N)	<0.010		0.010	mg/L	26-OCT-20	28-OCT-20	R5270902
Total Kjeldahl Nitrogen	0.696		0.050	mg/L	29-OCT-20	03-NOV-20	R5277177
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	26-OCT-20	26-OCT-20	R5269623
Phosphorus (P)-Total	0.0091		0.0030	mg/L	29-OCT-20	30-OCT-20	R5272018
Sulfate (SO4)	2.03		0.30	mg/L	26-OCT-20	28-OCT-20	R5270902
Anion Sum	0.71			meq/L		02-NOV-20	
Cation Sum	0.69			meq/L		02-NOV-20	
Cation - Anion Balance	-1.9			%		02-NOV-20	
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				21-OCT-20	03-NOV-20	R5276785
Dissolved Organic Carbon	8.39		0.50	mg/L	21-OCT-20	04-NOV-20	R5279956

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-4 3134-AQ-LAKE1-201021 Sampled By: Client on 21-OCT-20 @ 13:40 Matrix: Surface Water							
Organic / Inorganic Carbon							
Total Organic Carbon	8.79		0.50	mg/L		30-OCT-20	R5272683
Total Metals							
Aluminum (Al)-Total	0.0100		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Arsenic (As)-Total	0.00055		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Barium (Ba)-Total	0.00754		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Boron (B)-Total	<0.010		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Calcium (Ca)-Total	10.1		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Chromium (Cr)-Total	0.00012		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Copper (Cu)-Total	0.00087		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Iron (Fe)-Total	0.032		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Lead (Pb)-Total	<0.000050		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Lithium (Li)-Total	<0.0010		0.0010	mg/L	29-OCT-20	29-OCT-20	R5271848
Magnesium (Mg)-Total	1.50		0.0050	mg/L	29-OCT-20	29-OCT-20	R5271848
Manganese (Mn)-Total	0.00454		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		29-OCT-20	R5270940
Molybdenum (Mo)-Total	0.000116		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Phosphorus (P)-Total	<0.050		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Potassium (K)-Total	0.655		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Rubidium (Rb)-Total	0.00163		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Selenium (Se)-Total	0.000073		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Silicon (Si)-Total	1.00		0.10	mg/L	29-OCT-20	29-OCT-20	R5271848
Silver (Ag)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Sodium (Na)-Total	0.696		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Strontium (Sr)-Total	0.0252		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Sulfur (S)-Total	0.59		0.50	mg/L	29-OCT-20	29-OCT-20	R5271848
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Thorium (Th)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Tin (Sn)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Titanium (Ti)-Total	0.00051		0.00030	mg/L	29-OCT-20	29-OCT-20	R5271848
Tungsten (W)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Uranium (U)-Total	0.000013		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Vanadium (V)-Total	<0.00050		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-4 3134-AQ-LAKE1-201021 Sampled By: Client on 21-OCT-20 @ 13:40 Matrix: Surface Water							
Total Metals							
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					28-OCT-20	R5270291
Dissolved Metals Filtration Location	FIELD					30-OCT-20	R5272659
Aluminum (Al)-Dissolved	0.0022		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Arsenic (As)-Dissolved	0.00050		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Barium (Ba)-Dissolved	0.00717		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-OCT-20	30-OCT-20	R5272750
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Calcium (Ca)-Dissolved	9.92		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Chromium (Cr)-Dissolved	0.00014		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Copper (Cu)-Dissolved	0.00075		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	30-OCT-20	30-OCT-20	R5272750
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Magnesium (Mg)-Dissolved	1.45		0.0050	mg/L	30-OCT-20	30-OCT-20	R5272750
Manganese (Mn)-Dissolved	0.00098		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	28-OCT-20	29-OCT-20	R5271092
Molybdenum (Mo)-Dissolved	0.000097		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	30-OCT-20	30-OCT-20	R5272750
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Potassium (K)-Dissolved	0.641		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Rubidium (Rb)-Dissolved	0.00167		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Selenium (Se)-Dissolved	0.000069		0.000050	mg/L	30-OCT-20	30-OCT-20	R5272750
Silicon (Si)-Dissolved	1.01		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Sodium (Na)-Dissolved	0.737		0.050	mg/L	30-OCT-20	30-OCT-20	R5272750
Strontium (Sr)-Dissolved	0.0234		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	30-OCT-20	30-OCT-20	R5272750
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-OCT-20	30-OCT-20	R5272750
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	30-OCT-20	R5272750
Uranium (U)-Dissolved	0.000010		0.000010	mg/L	30-OCT-20	30-OCT-20	R5272750

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-4 3134-AQ-LAKE1-201021 Sampled By: Client on 21-OCT-20 @ 13:40 Matrix: Surface Water							
Dissolved Metals							
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-OCT-20	30-OCT-20	R5272750
Zinc (Zn)-Dissolved	0.0011		0.0010	mg/L	30-OCT-20	30-OCT-20	R5272750
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	30-OCT-20	30-OCT-20	R5272750
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		28-OCT-20	R5271111
Chromium, Hexavalent	<0.50		0.50	ug/L		28-OCT-20	R5271268
Aggregate Organics							
Chemical Oxygen Demand	24		20	mg/L	29-OCT-20	30-OCT-20	R5271878
L2521162-5 3134-AQ-LAKE2-201021 Sampled By: Client on 21-OCT-20 @ 14:00 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	68.3		1.0	uS/cm		24-OCT-20	R5268227
Hardness (as CaCO3)	32.7		0.50	mg/L		03-NOV-20	
pH	7.56		0.10	pH		24-OCT-20	R5268227
Total Suspended Solids	<3.0		3.0	mg/L		28-OCT-20	R5270847
Total Dissolved Solids	46		13	mg/L		28-OCT-20	R5270976
Anions and Nutrients							
Acceptable % Difference	PASS					03-NOV-20	
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-OCT-20	R5269871
Alkalinity, Total (as CaCO3)	32.5		2.0	mg/L		24-OCT-20	R5268227
Ammonia, Total (as N)	<0.0050		0.0050	mg/L	29-OCT-20	30-OCT-20	R5272006
Bromide (Br)	<0.10		0.10	mg/L	26-OCT-20	28-OCT-20	R5270902
Chloride (Cl)	<0.33		0.33	mg/L	26-OCT-20	28-OCT-20	R5270902
Fluoride (F)	0.033		0.020	mg/L	26-OCT-20	28-OCT-20	R5270902
Nitrate (as N)	<0.020		0.020	mg/L	26-OCT-20	28-OCT-20	R5270902
Nitrite (as N)	<0.010		0.010	mg/L	26-OCT-20	28-OCT-20	R5270902
Total Kjeldahl Nitrogen	0.406		0.050	mg/L	29-OCT-20	03-NOV-20	R5277177
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	26-OCT-20	26-OCT-20	R5269623
Phosphorus (P)-Total	0.0106		0.0030	mg/L	29-OCT-20	30-OCT-20	R5272018
Sulfate (SO4)	1.79		0.30	mg/L	26-OCT-20	28-OCT-20	R5270902
Anion Sum	0.69			meq/L		03-NOV-20	
Cation Sum	0.71			meq/L		03-NOV-20	
Cation - Anion Balance	1.2			%		03-NOV-20	
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				21-OCT-20	03-NOV-20	R5276785
Dissolved Organic Carbon	8.44		0.50	mg/L	21-OCT-20	04-NOV-20	R5279956
Total Organic Carbon	8.82		0.50	mg/L		30-OCT-20	R5272683
Total Metals							
Aluminum (Al)-Total	0.0070		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Arsenic (As)-Total	0.00057		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-5 3134-AQ-LAKE2-201021 Sampled By: Client on 21-OCT-20 @ 14:00 Matrix: Surface Water							
Total Metals							
Barium (Ba)-Total	0.00786		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Boron (B)-Total	<0.010		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Calcium (Ca)-Total	10.2		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Chromium (Cr)-Total	0.00014		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Copper (Cu)-Total	0.00133		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Iron (Fe)-Total	0.025		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Lead (Pb)-Total	<0.000050		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Lithium (Li)-Total	<0.0010		0.0010	mg/L	29-OCT-20	29-OCT-20	R5271848
Magnesium (Mg)-Total	1.51		0.0050	mg/L	29-OCT-20	29-OCT-20	R5271848
Manganese (Mn)-Total	0.00390		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		29-OCT-20	R5270940
Molybdenum (Mo)-Total	0.000102		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Phosphorus (P)-Total	<0.050		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Potassium (K)-Total	0.666		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Rubidium (Rb)-Total	0.00178		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Selenium (Se)-Total	0.000073		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Silicon (Si)-Total	1.02		0.10	mg/L	29-OCT-20	29-OCT-20	R5271848
Silver (Ag)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Sodium (Na)-Total	0.693		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Strontium (Sr)-Total	0.0247		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Sulfur (S)-Total	<0.50		0.50	mg/L	29-OCT-20	29-OCT-20	R5271848
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Thorium (Th)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Tin (Sn)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	29-OCT-20	29-OCT-20	R5271848
Tungsten (W)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Uranium (U)-Total	0.000012		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Vanadium (V)-Total	<0.00050		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					28-OCT-20	R5270291
Dissolved Metals Filtration Location	FIELD					30-OCT-20	R5272659
Aluminum (Al)-Dissolved	0.0204	DTC	0.0010	mg/L	30-OCT-20	02-NOV-20	R5275731

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-5 3134-AQ-LAKE2-201021 Sampled By: Client on 21-OCT-20 @ 14:00 Matrix: Surface Water							
Dissolved Metals							
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Arsenic (As)-Dissolved	0.00048		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Barium (Ba)-Dissolved	0.0161	DTC	0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-OCT-20	02-NOV-20	R5275731
Boron (B)-Dissolved	0.018		0.010	mg/L	30-OCT-20	02-NOV-20	R5275731
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	30-OCT-20	02-NOV-20	R5275731
Calcium (Ca)-Dissolved	10.6		0.050	mg/L	30-OCT-20	02-NOV-20	R5275731
Cesium (Cs)-Dissolved	0.000020		0.000010	mg/L	30-OCT-20	02-NOV-20	R5275731
Chromium (Cr)-Dissolved	0.00023		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Copper (Cu)-Dissolved	0.00425	DTC	0.00020	mg/L	30-OCT-20	02-NOV-20	R5275731
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	30-OCT-20	02-NOV-20	R5275731
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	30-OCT-20	02-NOV-20	R5275731
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	30-OCT-20	02-NOV-20	R5275731
Magnesium (Mg)-Dissolved	1.49		0.0050	mg/L	30-OCT-20	02-NOV-20	R5275731
Manganese (Mn)-Dissolved	0.00107		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	28-OCT-20	29-OCT-20	R5271092
Molybdenum (Mo)-Dissolved	0.000114		0.000050	mg/L	30-OCT-20	02-NOV-20	R5275731
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	30-OCT-20	02-NOV-20	R5275731
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-OCT-20	02-NOV-20	R5275731
Potassium (K)-Dissolved	0.690		0.050	mg/L	30-OCT-20	02-NOV-20	R5275731
Rubidium (Rb)-Dissolved	0.00184		0.00020	mg/L	30-OCT-20	02-NOV-20	R5275731
Selenium (Se)-Dissolved	0.000108		0.000050	mg/L	30-OCT-20	02-NOV-20	R5275731
Silicon (Si)-Dissolved	1.03		0.050	mg/L	30-OCT-20	02-NOV-20	R5275731
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	02-NOV-20	R5275731
Sodium (Na)-Dissolved	0.751		0.050	mg/L	30-OCT-20	02-NOV-20	R5275731
Strontium (Sr)-Dissolved	0.0254		0.00020	mg/L	30-OCT-20	02-NOV-20	R5275731
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	30-OCT-20	02-NOV-20	R5275731
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-OCT-20	02-NOV-20	R5275731
Thallium (Tl)-Dissolved	0.000017		0.000010	mg/L	30-OCT-20	02-NOV-20	R5275731
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-OCT-20	02-NOV-20	R5275731
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Uranium (U)-Dissolved	0.000013		0.000010	mg/L	30-OCT-20	02-NOV-20	R5275731
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	30-OCT-20	02-NOV-20	R5275731
Zinc (Zn)-Dissolved	0.0027		0.0010	mg/L	30-OCT-20	02-NOV-20	R5275731
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	30-OCT-20	02-NOV-20	R5275731
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		28-OCT-20	R5271111

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-5 3134-AQ-LAKE2-201021 Sampled By: Client on 21-OCT-20 @ 14:00 Matrix: Surface Water							
Speciated Metals							
Chromium, Hexavalent	<0.50		0.50	ug/L		28-OCT-20	R5271268
Aggregate Organics							
Chemical Oxygen Demand	28		20	mg/L	29-OCT-20	30-OCT-20	R5271878
L2521162-6 3134-AQ-SPW20-001-201021 Sampled By: Client on 21-OCT-20 @ 14:55 Matrix: Ground Water							
Physical Tests							
Conductivity (EC)	767		1.0	uS/cm		24-OCT-20	R5268227
Hardness (as CaCO3)	390		0.50	mg/L		03-NOV-20	
pH	8.01		0.10	pH		24-OCT-20	R5268227
Total Suspended Solids	<3.0		3.0	mg/L		28-OCT-20	R5270847
Total Dissolved Solids	529		20	mg/L		28-OCT-20	R5270976
Anions and Nutrients							
Acceptable % Difference	PASS					03-NOV-20	
Acidity (as CaCO3)	3.4		2.0	mg/L		27-OCT-20	R5269871
Alkalinity, Total (as CaCO3)	260		2.0	mg/L		24-OCT-20	R5268227
Ammonia, Total (as N)	0.174		0.0050	mg/L	29-OCT-20	30-OCT-20	R5272006
Bromide (Br)	0.36		0.10	mg/L	26-OCT-20	28-OCT-20	R5270902
Chloride (Cl)	17.1		0.10	mg/L	26-OCT-20	28-OCT-20	R5270902
Fluoride (F)	0.123		0.020	mg/L	26-OCT-20	28-OCT-20	R5270902
Nitrate (as N)	<0.020		0.020	mg/L	26-OCT-20	28-OCT-20	R5270902
Nitrite (as N)	<0.010		0.010	mg/L	26-OCT-20	28-OCT-20	R5270902
Sulfate (SO4)	157		0.30	mg/L	26-OCT-20	28-OCT-20	R5270902
Anion Sum	8.94			meq/L		03-NOV-20	
Cation Sum	8.44			meq/L		03-NOV-20	
Cation - Anion Balance	-2.9			%		03-NOV-20	
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				21-OCT-20	03-NOV-20	R5276785
Dissolved Organic Carbon	7.51		0.50	mg/L	21-OCT-20	04-NOV-20	R5279956
Total Metals							
Aluminum (Al)-Total	0.0122		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848
Antimony (Sb)-Total	0.00080		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Arsenic (As)-Total	0.00477		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Barium (Ba)-Total	0.0934		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Boron (B)-Total	0.017		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cadmium (Cd)-Total	0.0000092		0.0000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Calcium (Ca)-Total	124		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Cesium (Cs)-Total	0.000336		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Chromium (Cr)-Total	0.00043		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Cobalt (Co)-Total	0.00044		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-6 3134-AQ-SPW20-001-201021 Sampled By: Client on 21-OCT-20 @ 14:55 Matrix: Ground Water							
Total Metals							
Copper (Cu)-Total	<0.00050		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Iron (Fe)-Total	1.09		0.010	mg/L	29-OCT-20	29-OCT-20	R5271848
Lead (Pb)-Total	0.000238		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Lithium (Li)-Total	0.0025		0.0010	mg/L	29-OCT-20	29-OCT-20	R5271848
Magnesium (Mg)-Total	17.1		0.0050	mg/L	29-OCT-20	29-OCT-20	R5271848
Manganese (Mn)-Total	0.557		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Molybdenum (Mo)-Total	0.00313		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Nickel (Ni)-Total	0.00241		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Phosphorus (P)-Total	<0.050		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Potassium (K)-Total	1.90		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Rubidium (Rb)-Total	0.00268		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Selenium (Se)-Total	0.000071		0.000050	mg/L	29-OCT-20	29-OCT-20	R5271848
Silicon (Si)-Total	5.50		0.10	mg/L	29-OCT-20	29-OCT-20	R5271848
Silver (Ag)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Sodium (Na)-Total	11.1		0.050	mg/L	29-OCT-20	29-OCT-20	R5271848
Strontium (Sr)-Total	2.40		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Sulfur (S)-Total	54.4		0.50	mg/L	29-OCT-20	29-OCT-20	R5271848
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Thorium (Th)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Tin (Sn)-Total	<0.00010		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	29-OCT-20	29-OCT-20	R5271848
Tungsten (W)-Total	0.00713		0.00010	mg/L	29-OCT-20	29-OCT-20	R5271848
Uranium (U)-Total	0.000512		0.000010	mg/L	29-OCT-20	29-OCT-20	R5271848
Vanadium (V)-Total	0.00121		0.00050	mg/L	29-OCT-20	29-OCT-20	R5271848
Zinc (Zn)-Total	0.0241		0.0030	mg/L	29-OCT-20	29-OCT-20	R5271848
Zirconium (Zr)-Total	0.00253		0.00020	mg/L	29-OCT-20	29-OCT-20	R5271848
Dissolved Metals							
Dissolved Mercury Filtration Location	LAB					28-OCT-20	R5270291
Dissolved Metals Filtration Location	FIELD					30-OCT-20	R5272659
Aluminum (Al)-Dissolved	0.0110		0.0010	mg/L	30-OCT-20	02-NOV-20	R5275731
Antimony (Sb)-Dissolved	0.00081		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Arsenic (As)-Dissolved	0.00468		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Barium (Ba)-Dissolved	0.0922		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Beryllium (Be)-Dissolved	0.00011		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	30-OCT-20	02-NOV-20	R5275731
Boron (B)-Dissolved	0.020		0.010	mg/L	30-OCT-20	02-NOV-20	R5275731
Cadmium (Cd)-Dissolved	0.0000050		0.0000050	mg/L	30-OCT-20	02-NOV-20	R5275731
Calcium (Ca)-Dissolved	128		0.050	mg/L	30-OCT-20	02-NOV-20	R5275731
Cesium (Cs)-Dissolved	0.000344		0.000010	mg/L	30-OCT-20	02-NOV-20	R5275731
Chromium (Cr)-Dissolved	0.00040		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2521162-6 3134-AQ-SPW20-001-201021 Sampled By: Client on 21-OCT-20 @ 14:55 Matrix: Ground Water							
Dissolved Metals							
Cobalt (Co)-Dissolved	0.00043		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Copper (Cu)-Dissolved	0.00026		0.00020	mg/L	30-OCT-20	02-NOV-20	R5275731
Iron (Fe)-Dissolved	1.11		0.010	mg/L	30-OCT-20	02-NOV-20	R5275731
Lead (Pb)-Dissolved	0.000179		0.000050	mg/L	30-OCT-20	02-NOV-20	R5275731
Lithium (Li)-Dissolved	0.0023		0.0010	mg/L	30-OCT-20	02-NOV-20	R5275731
Magnesium (Mg)-Dissolved	17.1		0.0050	mg/L	30-OCT-20	02-NOV-20	R5275731
Manganese (Mn)-Dissolved	0.567		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	28-OCT-20	29-OCT-20	R5271092
Molybdenum (Mo)-Dissolved	0.00319		0.000050	mg/L	30-OCT-20	02-NOV-20	R5275731
Nickel (Ni)-Dissolved	0.00234		0.00050	mg/L	30-OCT-20	02-NOV-20	R5275731
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	30-OCT-20	02-NOV-20	R5275731
Potassium (K)-Dissolved	1.98		0.050	mg/L	30-OCT-20	02-NOV-20	R5275731
Rubidium (Rb)-Dissolved	0.00269		0.00020	mg/L	30-OCT-20	02-NOV-20	R5275731
Selenium (Se)-Dissolved	0.000054		0.000050	mg/L	30-OCT-20	02-NOV-20	R5275731
Silicon (Si)-Dissolved	5.85		0.050	mg/L	30-OCT-20	02-NOV-20	R5275731
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	02-NOV-20	R5275731
Sodium (Na)-Dissolved	11.5		0.050	mg/L	30-OCT-20	02-NOV-20	R5275731
Strontium (Sr)-Dissolved	2.47		0.00020	mg/L	30-OCT-20	02-NOV-20	R5275731
Sulfur (S)-Dissolved	58.1		0.50	mg/L	30-OCT-20	02-NOV-20	R5275731
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-OCT-20	02-NOV-20	R5275731
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	30-OCT-20	02-NOV-20	R5275731
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	30-OCT-20	02-NOV-20	R5275731
Tungsten (W)-Dissolved	0.00715		0.00010	mg/L	30-OCT-20	02-NOV-20	R5275731
Uranium (U)-Dissolved	0.000529		0.000010	mg/L	30-OCT-20	02-NOV-20	R5275731
Vanadium (V)-Dissolved	0.00109		0.00050	mg/L	30-OCT-20	02-NOV-20	R5275731
Zinc (Zn)-Dissolved	0.0223		0.0010	mg/L	30-OCT-20	02-NOV-20	R5275731
Zirconium (Zr)-Dissolved	0.00261		0.00020	mg/L	30-OCT-20	02-NOV-20	R5275731
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		28-OCT-20	R5271111

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Chloride (Cl)	B	L2521162-3
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Iron (Fe)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Barium (Ba)-Total	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Calcium (Ca)-Total	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Manganese (Mn)-Total	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Sodium (Na)-Total	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Strontium (Sr)-Total	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Sulfur (S)-Total	MS-B	L2521162-1, -2, -3, -4, -5, -6
Matrix Spike	Ammonia, Total (as N)	MS-B	L2521162-6
Matrix Spike	Sulfate (SO4)	MS-B	L2521162-1, -2

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Reference Information

CR-CR6-PWQO-IC-WT	Water	Chromium +6	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION

HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-T-CVAA-WT	Water	Total Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

IONBALANCE-TB	Water	Ion Balance Calculation	APHA 1030 E - CALCULATION

Cation Sum, Anion Sum, and Ion Balance (as % difference) are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Because all aqueous solutions are electrically neutral, the calculated ion balance (% difference of cations minus anions) should be near-zero.

Cation and Anion Sums are the total meq/L concentration of major cations and anions. Dissolved species are used where available. Minor ions are included where data is present. Ion Balance is calculated as:

Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+Anion Sum]

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Reference Information

	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.		
P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)
	Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.		
PH-TITR-TB	Water	pH	APHA 4500-H
	This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode		
PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)
	Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.		
SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)
	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.		
TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)
	Aqueous matrices are analyzed using gravimetry and evaporation		
TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821
	Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection		
TOC-WT	Water	Total Organic Carbon	APHA 5310B
	Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic cabon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.		
TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)
	Aqueous matrices are analyzed using gravimetry		

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Contact: David Mchaina

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5269871								
WG3431739-3 DUP		**L2521162-1**						
Acidity (as CaCO3)		2.1	<2.0	RPD-NA	mg/L	N/A	20	27-OCT-20
WG3432078-3 DUP		**L2521162-4**						
Acidity (as CaCO3)		2.0	<2.0	RPD-NA	mg/L	N/A	20	27-OCT-20
WG3431739-2 LCS								
Acidity (as CaCO3)			100.2		%		85-115	27-OCT-20
WG3432078-2 LCS								
Acidity (as CaCO3)			101.1		%		85-115	27-OCT-20
WG3431739-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	27-OCT-20
WG3432078-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	27-OCT-20
ALK-TITR-TB	Water							
Batch R5268227								
WG3431566-2 LCS								
Alkalinity, Total (as CaCO3)			102.2		%		85-115	24-OCT-20
WG3431566-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	24-OCT-20
Batch R5268673								
WG3431738-2 LCS								
Alkalinity, Total (as CaCO3)			103.9		%		85-115	26-OCT-20
WG3432073-2 LCS								
Alkalinity, Total (as CaCO3)			104.9		%		85-115	26-OCT-20
WG3431738-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	26-OCT-20
WG3432073-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	26-OCT-20
BR-IC-N-TB	Water							
Batch R5269253								
WG3431746-3 DUP		**L2521162-1**						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	26-OCT-20
WG3431746-2 LCS								
Bromide (Br)			97.6		%		85-115	26-OCT-20
WG3431746-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	26-OCT-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-IC-N-TB	Water							
Batch R5270178								
WG3432102-2 LCS								
Bromide (Br)			104.5		%		85-115	27-OCT-20
WG3432102-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	27-OCT-20
Batch R5270902								
WG3432111-2 LCS								
Bromide (Br)			102.3		%		85-115	28-OCT-20
WG3432111-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	28-OCT-20
WG3432111-4 MS		**L2521162-4**						
Bromide (Br)			111.6		%		75-125	28-OCT-20
CL-L-IC-N-TB	Water							
Batch R5269253								
WG3431746-3 DUP		**L2521162-1**						
Chloride (Cl)		0.20	0.20		mg/L	2.3	20	26-OCT-20
WG3431746-2 LCS								
Chloride (Cl)			95.5		%		90-110	26-OCT-20
WG3431746-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	26-OCT-20
Batch R5270178								
WG3432102-2 LCS								
Chloride (Cl)			100.7		%		90-110	27-OCT-20
WG3432102-1 MB								
Chloride (Cl)			0.17	B	mg/L		0.1	27-OCT-20
Batch R5270902								
WG3432111-2 LCS								
Chloride (Cl)			101.4		%		90-110	28-OCT-20
WG3432111-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	28-OCT-20
WG3432111-4 MS		**L2521162-4**						
Chloride (Cl)			110.7		%		75-125	28-OCT-20
COD-TB	Water							
Batch R5271878								
WG3434809-2 LCS								
Chemical Oxygen Demand			106.5		%		85-115	30-OCT-20
WG3434809-1 MB								
Chemical Oxygen Demand			<20		mg/L		20	30-OCT-20
CR-CR6-DIS-WT	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-DIS-WT	Water							
Batch R5271111								
WG3434013-2 LCS								
Chromium (VI)-Dissolved			98.8		%		70-130	28-OCT-20
WG3434013-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	28-OCT-20
CR-CR6-PWQO-IC-WT	Water							
Batch R5271268								
WG3434015-2 LCS								
Chromium, Hexavalent			99.2		%		80-120	28-OCT-20
WG3434015-1 MB								
Chromium, Hexavalent			<0.50		ug/L		0.5	28-OCT-20
DOC-WT	Water							
Batch R5279956								
WG3438286-3 DUP		**L2521162-1**						
Dissolved Organic Carbon		8.55	8.72		mg/L	2.0	20	04-NOV-20
WG3438286-2 LCS								
Dissolved Organic Carbon			107.0		%		80-120	04-NOV-20
WG3438286-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	04-NOV-20
WG3438286-4 MS		**L2521162-1**						
Dissolved Organic Carbon			102.9		%		70-130	04-NOV-20
EC-TITR-TB	Water							
Batch R5268227								
WG3431566-2 LCS								
Conductivity (EC)			101.3		%		90-110	24-OCT-20
WG3431566-1 MB								
Conductivity (EC)			1.1		uS/cm		2	24-OCT-20
Batch R5268673								
WG3431738-2 LCS								
Conductivity (EC)			100.9		%		90-110	26-OCT-20
WG3432073-2 LCS								
Conductivity (EC)			101.6		%		90-110	26-OCT-20
WG3431738-1 MB								
Conductivity (EC)			1.3		uS/cm		2	26-OCT-20
WG3432073-1 MB								
Conductivity (EC)			1.0		uS/cm		2	26-OCT-20
F-IC-N-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-TB	Water							
Batch R5269253								
WG3431746-3 DUP		**L2521162-1**						
Fluoride (F)		0.030	0.031		mg/L	2.6	20	26-OCT-20
WG3431746-2 LCS								
Fluoride (F)			95.9		%		90-110	26-OCT-20
WG3431746-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	26-OCT-20
Batch R5270178								
WG3432102-2 LCS								
Fluoride (F)			95.7		%		90-110	27-OCT-20
WG3432102-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	27-OCT-20
Batch R5270902								
WG3432111-2 LCS								
Fluoride (F)			101.7		%		90-110	28-OCT-20
WG3432111-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	28-OCT-20
WG3432111-4 MS		**L2521162-4**						
Fluoride (F)			116.8		%		75-125	28-OCT-20
HG-D-CVAA-WT	Water							
Batch R5271090								
WG3434151-2 LCS								
Mercury (Hg)-Dissolved			106.0		%		80-120	29-OCT-20
WG3434151-1 MB								
Mercury (Hg)-Dissolved			<0.000005C		mg/L		0.000005	29-OCT-20
Batch R5271092								
WG3434153-3 DUP		**L2521162-4**						
Mercury (Hg)-Dissolved		<0.0000050	<0.000005C	RPD-NA	mg/L	N/A	20	29-OCT-20
WG3434153-2 LCS								
Mercury (Hg)-Dissolved			108.0		%		80-120	29-OCT-20
WG3434153-1 MB								
Mercury (Hg)-Dissolved			<0.000005C		mg/L		0.000005	29-OCT-20
WG3434153-4 MS		**L2521162-5**						
Mercury (Hg)-Dissolved			106.9		%		70-130	29-OCT-20
HG-T-CVAA-WT	Water							
Batch R5270940								
WG3433995-2 LCS								
Mercury (Hg)-Total			104.0		%		80-120	29-OCT-20
WG3433995-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAA-WT	Water							
Batch R5270940								
WG3433995-1 MB								
Mercury (Hg)-Total			<0.0000050		mg/L		0.000005	29-OCT-20
MET-D-CCMS-TB	Water							
Batch R5272750								
WG3435725-19 DUP		**L2521162-3**						
Aluminum (Al)-Dissolved		0.0102	0.0101		mg/L	1.4	20	30-OCT-20
Antimony (Sb)-Dissolved		0.00086	0.00086		mg/L	0.5	20	30-OCT-20
Arsenic (As)-Dissolved		0.00484	0.00473		mg/L	2.4	20	30-OCT-20
Barium (Ba)-Dissolved		0.0860	0.0856		mg/L	0.5	20	30-OCT-20
Beryllium (Be)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	30-OCT-20
Bismuth (Bi)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	30-OCT-20
Boron (B)-Dissolved		0.016	0.017		mg/L	1.4	20	30-OCT-20
Cadmium (Cd)-Dissolved		0.0000081	0.0000061	J	mg/L	0.000002	0.00001	30-OCT-20
Calcium (Ca)-Dissolved		110	111		mg/L	0.3	20	30-OCT-20
Cesium (Cs)-Dissolved		0.000288	0.000288		mg/L	0.1	20	30-OCT-20
Chromium (Cr)-Dissolved		0.00036	0.00034		mg/L	3.2	20	30-OCT-20
Cobalt (Co)-Dissolved		0.00050	0.00050		mg/L	0.8	20	30-OCT-20
Copper (Cu)-Dissolved		0.00030	0.00030		mg/L	0.7	20	30-OCT-20
Iron (Fe)-Dissolved		0.929	0.895		mg/L	3.7	20	30-OCT-20
Lead (Pb)-Dissolved		0.000185	0.000182		mg/L	1.7	20	30-OCT-20
Lithium (Li)-Dissolved		0.0025	0.0024		mg/L	2.5	20	30-OCT-20
Magnesium (Mg)-Dissolved		16.2	16.0		mg/L	1.1	20	30-OCT-20
Manganese (Mn)-Dissolved		0.559	0.552		mg/L	1.3	20	30-OCT-20
Molybdenum (Mo)-Dissolved		0.00327	0.00322		mg/L	1.8	20	30-OCT-20
Nickel (Ni)-Dissolved		0.00262	0.00269		mg/L	2.8	20	30-OCT-20
Phosphorus (P)-Dissolved		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-OCT-20
Potassium (K)-Dissolved		1.80	1.77		mg/L	1.7	20	30-OCT-20
Rubidium (Rb)-Dissolved		0.00255	0.00249		mg/L	2.5	20	30-OCT-20
Selenium (Se)-Dissolved		0.000066	0.000055		mg/L	18	20	30-OCT-20
Silicon (Si)-Dissolved		5.33	5.19		mg/L	2.7	20	30-OCT-20
Silver (Ag)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	30-OCT-20
Sodium (Na)-Dissolved		8.35	8.11		mg/L	3.0	20	30-OCT-20
Strontium (Sr)-Dissolved		1.86	1.85		mg/L	0.9	20	30-OCT-20
Sulfur (S)-Dissolved		41.9	41.2		mg/L	1.7	20	30-OCT-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5272750								
WG3435725-19 DUP		**L2521162-3**						
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	30-OCT-20
Thallium (Tl)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	30-OCT-20
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	30-OCT-20
Tin (Sn)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	30-OCT-20
Titanium (Ti)-Dissolved		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	30-OCT-20
Tungsten (W)-Dissolved		0.00745	0.00740		mg/L	0.6	20	30-OCT-20
Uranium (U)-Dissolved		0.000476	0.000492		mg/L	3.3	20	30-OCT-20
Vanadium (V)-Dissolved		0.00103	0.00099		mg/L	3.5	20	30-OCT-20
Zinc (Zn)-Dissolved		0.0207	0.0205		mg/L	1.0	20	30-OCT-20
Zirconium (Zr)-Dissolved		0.00222	0.00222		mg/L	0.1	20	30-OCT-20
WG3435725-18 LCS								
Aluminum (Al)-Dissolved			93.7		%		80-120	30-OCT-20
Antimony (Sb)-Dissolved			100.2		%		80-120	30-OCT-20
Arsenic (As)-Dissolved			97.3		%		80-120	30-OCT-20
Barium (Ba)-Dissolved			93.9		%		80-120	30-OCT-20
Beryllium (Be)-Dissolved			96.3		%		80-120	30-OCT-20
Bismuth (Bi)-Dissolved			97.7		%		80-120	30-OCT-20
Boron (B)-Dissolved			88.5		%		80-120	30-OCT-20
Cadmium (Cd)-Dissolved			93.7		%		80-120	30-OCT-20
Calcium (Ca)-Dissolved			94.1		%		80-120	30-OCT-20
Cesium (Cs)-Dissolved			100.6		%		80-120	30-OCT-20
Chromium (Cr)-Dissolved			94.9		%		80-120	30-OCT-20
Cobalt (Co)-Dissolved			94.6		%		80-120	30-OCT-20
Copper (Cu)-Dissolved			93.7		%		80-120	30-OCT-20
Iron (Fe)-Dissolved			109.8		%		80-120	30-OCT-20
Lead (Pb)-Dissolved			96.2		%		80-120	30-OCT-20
Lithium (Li)-Dissolved			92.5		%		80-120	30-OCT-20
Magnesium (Mg)-Dissolved			93.8		%		80-120	30-OCT-20
Manganese (Mn)-Dissolved			94.5		%		80-120	30-OCT-20
Molybdenum (Mo)-Dissolved			98.0		%		80-120	30-OCT-20
Nickel (Ni)-Dissolved			92.3		%		80-120	30-OCT-20
Phosphorus (P)-Dissolved			98.0		%		80-120	30-OCT-20
Potassium (K)-Dissolved			95.0		%		80-120	30-OCT-20
Rubidium (Rb)-Dissolved			97.5		%		80-120	30-OCT-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5272750								
WG3435725-18 LCS								
Selenium (Se)-Dissolved			97.1		%		80-120	30-OCT-20
Silicon (Si)-Dissolved			105.8		%		80-120	30-OCT-20
Silver (Ag)-Dissolved			98.2		%		80-120	30-OCT-20
Sodium (Na)-Dissolved			94.5		%		80-120	30-OCT-20
Strontium (Sr)-Dissolved			95.9		%		80-120	30-OCT-20
Sulfur (S)-Dissolved			82.9		%		80-120	30-OCT-20
Tellurium (Te)-Dissolved			99.3		%		80-120	30-OCT-20
Thallium (Tl)-Dissolved			97.6		%		80-120	30-OCT-20
Thorium (Th)-Dissolved			94.9		%		80-120	30-OCT-20
Tin (Sn)-Dissolved			95.4		%		80-120	30-OCT-20
Titanium (Ti)-Dissolved			94.6		%		80-120	30-OCT-20
Tungsten (W)-Dissolved			99.8		%		80-120	30-OCT-20
Uranium (U)-Dissolved			93.7		%		80-120	30-OCT-20
Vanadium (V)-Dissolved			94.9		%		80-120	30-OCT-20
Zinc (Zn)-Dissolved			94.4		%		80-120	30-OCT-20
Zirconium (Zr)-Dissolved			97.6		%		80-120	30-OCT-20
WG3435725-17 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	30-OCT-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	30-OCT-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	30-OCT-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	30-OCT-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	30-OCT-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	30-OCT-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	30-OCT-20
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	30-OCT-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	30-OCT-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	30-OCT-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	30-OCT-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	30-OCT-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	30-OCT-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	30-OCT-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	30-OCT-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	30-OCT-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	30-OCT-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5272750								
WG3435725-17 MB								
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	30-OCT-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	30-OCT-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	30-OCT-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	30-OCT-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	30-OCT-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	30-OCT-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	30-OCT-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	30-OCT-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	30-OCT-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	30-OCT-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	30-OCT-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	30-OCT-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	30-OCT-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	30-OCT-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	30-OCT-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	30-OCT-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	30-OCT-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	30-OCT-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	30-OCT-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	30-OCT-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	30-OCT-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	30-OCT-20
WG3435725-20 MS		**L2521162-4**						
Aluminum (Al)-Dissolved			100.7		%		70-130	30-OCT-20
Antimony (Sb)-Dissolved			99.6		%		70-130	30-OCT-20
Arsenic (As)-Dissolved			104.7		%		70-130	30-OCT-20
Barium (Ba)-Dissolved			102.0		%		70-130	30-OCT-20
Beryllium (Be)-Dissolved			102.1		%		70-130	30-OCT-20
Bismuth (Bi)-Dissolved			103.8		%		70-130	30-OCT-20
Boron (B)-Dissolved			100.0		%		70-130	30-OCT-20
Cadmium (Cd)-Dissolved			106.1		%		70-130	30-OCT-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	30-OCT-20
Cesium (Cs)-Dissolved			108.7		%		70-130	30-OCT-20
Chromium (Cr)-Dissolved			102.5		%		70-130	30-OCT-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5272750								
WG3435725-20 MS		**L2521162-4**						
Cobalt (Co)-Dissolved			102.7		%		70-130	30-OCT-20
Copper (Cu)-Dissolved			101.5		%		70-130	30-OCT-20
Iron (Fe)-Dissolved			101.6		%		70-130	30-OCT-20
Lead (Pb)-Dissolved			103.6		%		70-130	30-OCT-20
Lithium (Li)-Dissolved			97.6		%		70-130	30-OCT-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	30-OCT-20
Manganese (Mn)-Dissolved			104.6		%		70-130	30-OCT-20
Molybdenum (Mo)-Dissolved			97.5		%		70-130	30-OCT-20
Nickel (Ni)-Dissolved			102.4		%		70-130	30-OCT-20
Phosphorus (P)-Dissolved			104.7		%		70-130	30-OCT-20
Potassium (K)-Dissolved			101.0		%		70-130	30-OCT-20
Rubidium (Rb)-Dissolved			105.2		%		70-130	30-OCT-20
Selenium (Se)-Dissolved			103.7		%		70-130	30-OCT-20
Silicon (Si)-Dissolved			86.3		%		70-130	30-OCT-20
Sodium (Na)-Dissolved			100.4		%		70-130	30-OCT-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	30-OCT-20
Sulfur (S)-Dissolved			100.3		%		70-130	30-OCT-20
Tellurium (Te)-Dissolved			102.4		%		70-130	30-OCT-20
Thallium (Tl)-Dissolved			104.7		%		70-130	30-OCT-20
Thorium (Th)-Dissolved			104.6		%		70-130	30-OCT-20
Tin (Sn)-Dissolved			97.0		%		70-130	30-OCT-20
Titanium (Ti)-Dissolved			95.9		%		70-130	30-OCT-20
Tungsten (W)-Dissolved			101.8		%		70-130	30-OCT-20
Uranium (U)-Dissolved			102.6		%		70-130	30-OCT-20
Vanadium (V)-Dissolved			102.1		%		70-130	30-OCT-20
Zinc (Zn)-Dissolved			104.3		%		70-130	30-OCT-20
Zirconium (Zr)-Dissolved			98.5		%		70-130	30-OCT-20
Batch R5275731								
WG3435725-22 LCS								
Aluminum (Al)-Dissolved			97.8		%		80-120	02-NOV-20
Antimony (Sb)-Dissolved			102.3		%		80-120	02-NOV-20
Arsenic (As)-Dissolved			100.6		%		80-120	02-NOV-20
Barium (Ba)-Dissolved			99.8		%		80-120	02-NOV-20
Beryllium (Be)-Dissolved			94.4		%		80-120	02-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5275731								
WG3435725-22 LCS								
Bismuth (Bi)-Dissolved			100.0		%		80-120	02-NOV-20
Boron (B)-Dissolved			93.7		%		80-120	02-NOV-20
Cadmium (Cd)-Dissolved			96.7		%		80-120	02-NOV-20
Calcium (Ca)-Dissolved			97.4		%		80-120	02-NOV-20
Cesium (Cs)-Dissolved			102.6		%		80-120	02-NOV-20
Chromium (Cr)-Dissolved			97.7		%		80-120	02-NOV-20
Cobalt (Co)-Dissolved			96.4		%		80-120	02-NOV-20
Copper (Cu)-Dissolved			97.0		%		80-120	02-NOV-20
Iron (Fe)-Dissolved			119.3		%		80-120	02-NOV-20
Lead (Pb)-Dissolved			99.2		%		80-120	02-NOV-20
Lithium (Li)-Dissolved			93.8		%		80-120	02-NOV-20
Magnesium (Mg)-Dissolved			98.7		%		80-120	02-NOV-20
Manganese (Mn)-Dissolved			98.3		%		80-120	02-NOV-20
Molybdenum (Mo)-Dissolved			100.2		%		80-120	02-NOV-20
Nickel (Ni)-Dissolved			95.9		%		80-120	02-NOV-20
Phosphorus (P)-Dissolved			102.8		%		80-120	02-NOV-20
Potassium (K)-Dissolved			98.4		%		80-120	02-NOV-20
Rubidium (Rb)-Dissolved			99.1		%		80-120	02-NOV-20
Selenium (Se)-Dissolved			107.5		%		80-120	02-NOV-20
Silicon (Si)-Dissolved			97.6		%		80-120	02-NOV-20
Silver (Ag)-Dissolved			100.6		%		80-120	02-NOV-20
Sodium (Na)-Dissolved			98.8		%		80-120	02-NOV-20
Strontium (Sr)-Dissolved			101.2		%		80-120	02-NOV-20
Sulfur (S)-Dissolved			87.2		%		80-120	02-NOV-20
Tellurium (Te)-Dissolved			99.5		%		80-120	02-NOV-20
Thallium (Tl)-Dissolved			98.9		%		80-120	02-NOV-20
Thorium (Th)-Dissolved			100.1		%		80-120	02-NOV-20
Tin (Sn)-Dissolved			100.2		%		80-120	02-NOV-20
Titanium (Ti)-Dissolved			98.7		%		80-120	02-NOV-20
Tungsten (W)-Dissolved			100.6		%		80-120	02-NOV-20
Uranium (U)-Dissolved			104.3		%		80-120	02-NOV-20
Vanadium (V)-Dissolved			99.3		%		80-120	02-NOV-20
Zinc (Zn)-Dissolved			98.4		%		80-120	02-NOV-20
Zirconium (Zr)-Dissolved			102.6		%		80-120	02-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5275731								
WG3435725-21 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	02-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	02-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	02-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	02-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	02-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	02-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	02-NOV-20
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	02-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	02-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	02-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	02-NOV-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	02-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	02-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	02-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	02-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	02-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	02-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	02-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	02-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	02-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	02-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	02-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	02-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	02-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	02-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	02-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	02-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	02-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	02-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	02-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	02-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	02-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	02-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	02-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5275731								
WG3435725-21 MB								
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	02-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	02-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	02-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	02-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	02-NOV-20
MET-T-CCMS-TB	Water							
Batch R5271848								
WG3434290-3 DUP		**L2521162-5**						
Aluminum (Al)-Total		0.0070	0.0064		mg/L	10	20	29-OCT-20
Antimony (Sb)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	29-OCT-20
Arsenic (As)-Total		0.00057	0.00056		mg/L	2.4	20	29-OCT-20
Barium (Ba)-Total		0.00786	0.00778		mg/L	1.1	20	29-OCT-20
Beryllium (Be)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	29-OCT-20
Bismuth (Bi)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	29-OCT-20
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	29-OCT-20
Calcium (Ca)-Total		10.2	9.99		mg/L	1.5	20	29-OCT-20
Cesium (Cs)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	29-OCT-20
Chromium (Cr)-Total		0.00014	0.00014		mg/L	0.0	20	29-OCT-20
Cobalt (Co)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	29-OCT-20
Copper (Cu)-Total		0.00133	0.00132		mg/L	1.2	20	29-OCT-20
Iron (Fe)-Total		0.025	0.025		mg/L	0.9	20	29-OCT-20
Lead (Pb)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	29-OCT-20
Lithium (Li)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	29-OCT-20
Magnesium (Mg)-Total		1.51	1.51		mg/L	0.3	20	29-OCT-20
Manganese (Mn)-Total		0.00390	0.00397		mg/L	1.7	20	29-OCT-20
Molybdenum (Mo)-Total		0.000102	0.000099		mg/L	3.1	20	29-OCT-20
Nickel (Ni)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	29-OCT-20
Phosphorus (P)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	20	29-OCT-20
Potassium (K)-Total		0.666	0.662		mg/L	0.7	20	29-OCT-20
Rubidium (Rb)-Total		0.00178	0.00167		mg/L	6.5	20	29-OCT-20
Selenium (Se)-Total		0.000073	0.000093	J	mg/L	0.000020	0.0001	29-OCT-20
Silicon (Si)-Total		1.02	1.00		mg/L	2.2	20	29-OCT-20
Silver (Ag)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	29-OCT-20
Sodium (Na)-Total		0.693	0.691		mg/L	0.2	20	29-OCT-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5271848								
WG3434290-3 DUP		**L2521162-5**						
Strontium (Sr)-Total		0.0247	0.0245		mg/L	0.7	20	29-OCT-20
Sulfur (S)-Total		<0.50	<0.50	RPD-NA	mg/L	N/A	20	29-OCT-20
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	29-OCT-20
Thallium (Tl)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	29-OCT-20
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	29-OCT-20
Tin (Sn)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	29-OCT-20
Titanium (Ti)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	29-OCT-20
Tungsten (W)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	29-OCT-20
Uranium (U)-Total		0.000012	0.000013		mg/L	8.0	20	29-OCT-20
Vanadium (V)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	29-OCT-20
Zinc (Zn)-Total		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	29-OCT-20
Zirconium (Zr)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	29-OCT-20
WG3434290-2 LCS								
Aluminum (Al)-Total			102.8		%		80-120	29-OCT-20
Antimony (Sb)-Total			104.5		%		80-120	29-OCT-20
Arsenic (As)-Total			104.2		%		80-120	29-OCT-20
Barium (Ba)-Total			105.6		%		80-120	29-OCT-20
Beryllium (Be)-Total			103.0		%		80-120	29-OCT-20
Bismuth (Bi)-Total			104.6		%		80-120	29-OCT-20
Boron (B)-Total			93.4		%		80-120	29-OCT-20
Cadmium (Cd)-Total			101.0		%		80-120	29-OCT-20
Calcium (Ca)-Total			99.7		%		80-120	29-OCT-20
Cesium (Cs)-Total			108.4		%		80-120	29-OCT-20
Chromium (Cr)-Total			100.5		%		80-120	29-OCT-20
Cobalt (Co)-Total			100.2		%		80-120	29-OCT-20
Copper (Cu)-Total			101.4		%		80-120	29-OCT-20
Iron (Fe)-Total			118.2		%		80-120	29-OCT-20
Lead (Pb)-Total			101.2		%		80-120	29-OCT-20
Lithium (Li)-Total			99.4		%		80-120	29-OCT-20
Magnesium (Mg)-Total			104.9		%		80-120	29-OCT-20
Manganese (Mn)-Total			104.3		%		80-120	29-OCT-20
Molybdenum (Mo)-Total			102.3		%		80-120	29-OCT-20
Nickel (Ni)-Total			100.6		%		80-120	29-OCT-20
Phosphorus (P)-Total			115.4		%		80-120	29-OCT-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5271848								
WG3434290-2 LCS								
Potassium (K)-Total			109.1		%		80-120	29-OCT-20
Rubidium (Rb)-Total			101.1		%		80-120	29-OCT-20
Selenium (Se)-Total			104.4		%		80-120	29-OCT-20
Silicon (Si)-Total			104.8		%		80-120	29-OCT-20
Silver (Ag)-Total			102.8		%		80-120	29-OCT-20
Sodium (Na)-Total			99.8		%		80-120	29-OCT-20
Strontium (Sr)-Total			103.5		%		80-120	29-OCT-20
Sulfur (S)-Total			108.1		%		80-120	29-OCT-20
Tellurium (Te)-Total			100.7		%		80-120	29-OCT-20
Thallium (Tl)-Total			99.8		%		80-120	29-OCT-20
Thorium (Th)-Total			99.0		%		80-120	29-OCT-20
Tin (Sn)-Total			103.8		%		80-120	29-OCT-20
Titanium (Ti)-Total			103.1		%		80-120	29-OCT-20
Tungsten (W)-Total			106.0		%		80-120	29-OCT-20
Uranium (U)-Total			104.2		%		80-120	29-OCT-20
Vanadium (V)-Total			103.6		%		80-120	29-OCT-20
Zinc (Zn)-Total			104.6		%		80-120	29-OCT-20
Zirconium (Zr)-Total			105.3		%		80-120	29-OCT-20
WG3434290-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	29-OCT-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	29-OCT-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	29-OCT-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	29-OCT-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	29-OCT-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	29-OCT-20
Boron (B)-Total			<0.010		mg/L		0.01	29-OCT-20
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	29-OCT-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	29-OCT-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	29-OCT-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	29-OCT-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	29-OCT-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	29-OCT-20
Iron (Fe)-Total			<0.010		mg/L		0.01	29-OCT-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	29-OCT-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5271848								
WG3434290-1 MB								
Lithium (Li)-Total			<0.0010		mg/L		0.001	29-OCT-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	29-OCT-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	29-OCT-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	29-OCT-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	29-OCT-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	29-OCT-20
Potassium (K)-Total			<0.050		mg/L		0.05	29-OCT-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	29-OCT-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	29-OCT-20
Silicon (Si)-Total			<0.10		mg/L		0.1	29-OCT-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	29-OCT-20
Sodium (Na)-Total			<0.050		mg/L		0.05	29-OCT-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	29-OCT-20
Sulfur (S)-Total			<0.50		mg/L		0.5	29-OCT-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	29-OCT-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	29-OCT-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	29-OCT-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	29-OCT-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	29-OCT-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	29-OCT-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	29-OCT-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	29-OCT-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	29-OCT-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	29-OCT-20
WG3434290-4 MS		**L2521162-6**						
Aluminum (Al)-Total			100.5		%		70-130	29-OCT-20
Antimony (Sb)-Total			105.4		%		70-130	29-OCT-20
Arsenic (As)-Total			105.5		%		70-130	29-OCT-20
Barium (Ba)-Total			N/A	MS-B	%		-	29-OCT-20
Beryllium (Be)-Total			95.3		%		70-130	29-OCT-20
Bismuth (Bi)-Total			105.0		%		70-130	29-OCT-20
Boron (B)-Total			91.3		%		70-130	29-OCT-20
Cadmium (Cd)-Total			106.2		%		70-120	29-OCT-20
Calcium (Ca)-Total			N/A	MS-B	%		-	29-OCT-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5271848								
WG3434290-4 MS		**L2521162-6**						
Cesium (Cs)-Total			113.3		%		70-130	29-OCT-20
Chromium (Cr)-Total			102.2		%		70-130	29-OCT-20
Cobalt (Co)-Total			102.2		%		70-130	29-OCT-20
Copper (Cu)-Total			101.0		%		70-130	29-OCT-20
Iron (Fe)-Total			102.4		%		70-130	29-OCT-20
Lead (Pb)-Total			101.6		%		70-130	29-OCT-20
Lithium (Li)-Total			90.4		%		70-130	29-OCT-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	29-OCT-20
Manganese (Mn)-Total			N/A	MS-B	%		-	29-OCT-20
Molybdenum (Mo)-Total			104.3		%		70-130	29-OCT-20
Nickel (Ni)-Total			100.5		%		70-130	29-OCT-20
Phosphorus (P)-Total			110.9		%		70-130	29-OCT-20
Potassium (K)-Total			100.5		%		70-130	29-OCT-20
Rubidium (Rb)-Total			103.8		%		70-130	29-OCT-20
Selenium (Se)-Total			108.6		%		70-130	29-OCT-20
Silicon (Si)-Total			83.4		%		70-130	29-OCT-20
Silver (Ag)-Total			103.8		%		70-130	29-OCT-20
Sodium (Na)-Total			N/A	MS-B	%		-	29-OCT-20
Strontium (Sr)-Total			N/A	MS-B	%		-	29-OCT-20
Sulfur (S)-Total			N/A	MS-B	%		-	29-OCT-20
Tellurium (Te)-Total			102.8		%		70-130	29-OCT-20
Thallium (Tl)-Total			102.6		%		70-130	29-OCT-20
Thorium (Th)-Total			106.0		%		70-130	29-OCT-20
Tin (Sn)-Total			104.0		%		70-130	29-OCT-20
Titanium (Ti)-Total			101.2		%		70-130	29-OCT-20
Tungsten (W)-Total			104.7		%		70-130	29-OCT-20
Uranium (U)-Total			109.3		%		70-130	29-OCT-20
Vanadium (V)-Total			105.9		%		70-130	29-OCT-20
Zinc (Zn)-Total			102.1		%		70-130	29-OCT-20
Zirconium (Zr)-Total			104.1		%		70-130	29-OCT-20
NH3-F-TB	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-F-TB	Water							
Batch R5272006								
WG3434642-2 LCS								
Ammonia, Total (as N)			102.8		%		85-115	30-OCT-20
WG3434761-2 LCS								
Ammonia, Total (as N)			98.2		%		85-115	30-OCT-20
WG3434642-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	30-OCT-20
WG3434761-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	30-OCT-20
NO2-IC-N-TB	Water							
Batch R5269253								
WG3431746-3 DUP		**L2521162-1**						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	20	26-OCT-20
WG3431746-2 LCS								
Nitrite (as N)			92.8		%		90-110	26-OCT-20
WG3431746-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	26-OCT-20
Batch R5270178								
WG3432102-2 LCS								
Nitrite (as N)			103.0		%		90-110	27-OCT-20
WG3432102-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	27-OCT-20
Batch R5270902								
WG3432111-2 LCS								
Nitrite (as N)			105.3		%		90-110	28-OCT-20
WG3432111-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	28-OCT-20
WG3432111-4 MS		**L2521162-4**						
Nitrite (as N)			115.7		%		75-125	28-OCT-20
NO3-IC-N-TB	Water							
Batch R5269253								
WG3431746-3 DUP		**L2521162-1**						
Nitrate (as N)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	26-OCT-20
WG3431746-2 LCS								
Nitrate (as N)			94.8		%		90-110	26-OCT-20
WG3431746-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	26-OCT-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-N-TB	Water							
Batch R5270178								
WG3432102-2 LCS								
Nitrate (as N)			99.0		%		90-110	27-OCT-20
WG3432102-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	27-OCT-20
Batch R5270902								
WG3432111-2 LCS								
Nitrate (as N)			100.3		%		90-110	28-OCT-20
WG3432111-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	28-OCT-20
WG3432111-4 MS		**L2521162-4**						
Nitrate (as N)			114.6		%		75-125	28-OCT-20
P-T-COL-TB	Water							
Batch R5272018								
WG3434797-2 LCS								
Phosphorus (P)-Total			102.8		%		80-120	30-OCT-20
WG3434797-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	30-OCT-20
PH-TITR-TB	Water							
Batch R5268227								
WG3431566-2 LCS								
pH			7.00		pH		6.9-7.1	24-OCT-20
Batch R5268673								
WG3431738-2 LCS								
pH			7.01		pH		6.9-7.1	26-OCT-20
WG3432073-2 LCS								
pH			7.01		pH		6.9-7.1	26-OCT-20
PO4-DO-COL-TB	Water							
Batch R5269623								
WG3431741-2 LCS								
Orthophosphate-Dissolved (as P)			96.7		%		80-120	26-OCT-20
WG3432094-2 LCS								
Orthophosphate-Dissolved (as P)			97.6		%		80-120	26-OCT-20
WG3431741-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	26-OCT-20
WG3432094-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	26-OCT-20
SO4-IC-N-TB	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-IC-N-TB	Water							
Batch R5269253								
WG3431746-3 DUP		**L2521162-1**						
Sulfate (SO4)		2.01	2.05		mg/L	2.0	20	26-OCT-20
WG3431746-2 LCS								
Sulfate (SO4)			99.3		%		90-110	26-OCT-20
WG3431746-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	26-OCT-20
Batch R5270178								
WG3432102-2 LCS								
Sulfate (SO4)			101.9		%		90-110	27-OCT-20
WG3432102-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	27-OCT-20
Batch R5270902								
WG3432111-2 LCS								
Sulfate (SO4)			101.2		%		90-110	28-OCT-20
WG3432111-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	28-OCT-20
WG3432111-4 MS		**L2521162-4**						
Sulfate (SO4)			111.9		%		75-125	28-OCT-20
TDS-TB	Water							
Batch R5270171								
WG3432995-2 LCS								
Total Dissolved Solids			97.1		%		85-115	27-OCT-20
WG3432995-1 MB								
Total Dissolved Solids			<10		mg/L		10	27-OCT-20
Batch R5270976								
WG3433968-3 DUP		**L2521162-4**						
Total Dissolved Solids		47	48		mg/L	2.8	20	28-OCT-20
WG3433968-2 LCS								
Total Dissolved Solids			99.4		%		85-115	28-OCT-20
WG3433968-1 MB								
Total Dissolved Solids			<10		mg/L		10	28-OCT-20
TKN-F-TB	Water							
Batch R5277177								
WG3434767-2 LCS								
Total Kjeldahl Nitrogen			110.2		%		75-125	03-NOV-20
WG3434767-1 MB								
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	03-NOV-20
TOC-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TOC-WT	Water							
Batch R5272683								
WG3433581-2 LCS								
Total Organic Carbon			106.8		%		80-120	30-OCT-20
WG3433581-1 MB								
Total Organic Carbon			<0.50		mg/L		0.5	30-OCT-20
TSS-TB	Water							
Batch R5270029								
WG3432998-2 LCS								
Total Suspended Solids			94.2		%		85-115	27-OCT-20
WG3432998-1 MB								
Total Suspended Solids			<3.0		mg/L		3	27-OCT-20
Batch R5270847								
WG3433971-3 DUP		**L2521162-4**						
Total Suspended Solids		<3.0	<3.0	RPD-NA	mg/L	N/A	20	28-OCT-20
WG3433971-2 LCS								
Total Suspended Solids			93.2		%		85-115	28-OCT-20
WG3433971-1 MB								
Total Suspended Solids			<3.0		mg/L		3	28-OCT-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	20-OCT-20 09:30	25-OCT-20 16:00	4	5	days	EHTR
	2	20-OCT-20 09:40	25-OCT-20 16:00	4	5	days	EHTR
	3	20-OCT-20 10:30	26-OCT-20 10:25	4	6	days	EHTR

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2521162 were received on 24-OCT-20 11:07.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2521162-COFC

COC Number: 17 -

Page 1 of 1

SD

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☑ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report ☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX
Email 1 dmchaina@firstmininggold.com
Email 2 shila@firstmininggold.com
Email 3 shaun@firstmininggold.com

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax accountspayable@firstmininggold.com
Email 2 dmchaina@firstmininggold.com

Project Information

ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2521162.

ALS Contact: Sampler:

Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	Dissolved Metals, Total Metals	Dissolved Mercury / Total Mercury	F, NO2,NO3, pH, SO4 / Hardness	TDS / TSS / Ammonia	Ion Balance	Sulphate / Nitrite / Nitrate	Total Phosphorous / Orthophosphate	Phosphate	Total / Dissolved Chromium	TOC / DOC	TKN / COD	Total Methyl Mercury	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-AQ-Lake1-201020	20-10-20	09:30	Surface W	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	3134-AQ-Lake2-201020	20-10-20	09:40	Surface W	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	3134-AQ-SPW20-001-201020	20-10-20	10:30	Ground W	6	✓	✓	D only	✓	✓ No Ammonia	✓	✓			D only	DOC only				
	— No Nutrient Bottle																			
	3134-AQ-Lake1-201021	21-10-20	13:40	Surface W	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	3134-AQ-Lake2-201021	21-10-20	14:00	Surface W	9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	3134-AQ-SPW20-001-201021	21-10-20	14:55	Ground W	7	✓	✓	D only	✓	✓	✓	✓			D only	DOC only				

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐
Ice Packs ☐ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐
Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
12.3					

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Eseale	Oct 22/20	10:25

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
SD	Oct 24/2020	11:07

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

SD

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 28- OCT- 20
Report Date: 07- DEC- 20 08:15 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2522994

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - SURFACE WATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project



Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2522994-1 3134-AQ-LAKE1-201024 Sampled By: Client on 24-OCT-20 @ 14:10 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	67.3		1.0	uS/cm		29-OCT-20	R5271017
Hardness (as CaCO3)	32.0		0.50	mg/L		05-NOV-20	
pH	7.38		0.10	pH		29-OCT-20	R5271017
Total Suspended Solids	<3.0		3.0	mg/L		30-OCT-20	R5272206
Total Dissolved Solids	50		13	mg/L		30-OCT-20	R5272234
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		01-NOV-20	R5272612
Alkalinity, Total (as CaCO3)	32.4		2.0	mg/L		29-OCT-20	R5271017
Ammonia, Total (as N)	0.0332		0.0050	mg/L	04-NOV-20	04-NOV-20	R5280058
Bromide (Br)	<0.10		0.10	mg/L	29-OCT-20	31-OCT-20	R5272455
Chloride (Cl)	0.25		0.10	mg/L	29-OCT-20	31-OCT-20	R5272455
Fluoride (F)	0.024		0.020	mg/L	29-OCT-20	31-OCT-20	R5272455
Nitrate (as N)	0.030		0.020	mg/L	29-OCT-20	31-OCT-20	R5272455
Nitrite (as N)	<0.010		0.010	mg/L	29-OCT-20	31-OCT-20	R5272455
Total Kjeldahl Nitrogen	0.311		0.050	mg/L	04-NOV-20	05-NOV-20	R5281055
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	29-OCT-20	31-OCT-20	R5275979
Phosphorus (P)-Total	0.0087		0.0030	mg/L	05-NOV-20	07-NOV-20	R5283639
Sulfate (SO4)	1.98		0.30	mg/L	29-OCT-20	31-OCT-20	R5272455
Organic / Inorganic Carbon							
Dissolved Organic Carbon	7.10		0.50	mg/L		09-NOV-20	R5283339
Total Organic Carbon	6.71		0.50	mg/L		09-NOV-20	R5283327
Total Metals							
Aluminum (Al)-Total	0.0099		0.0030	mg/L	03-NOV-20	03-NOV-20	R5277417
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Arsenic (As)-Total	0.00056		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Barium (Ba)-Total	0.00809		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Boron (B)-Total	<0.010		0.010	mg/L	03-NOV-20	03-NOV-20	R5277417
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Calcium (Ca)-Total	10.5		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Chromium (Cr)-Total	0.00037		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Copper (Cu)-Total	0.00082		0.00050	mg/L	03-NOV-20	03-NOV-20	R5277417
Iron (Fe)-Total	0.040		0.010	mg/L	03-NOV-20	03-NOV-20	R5277417
Lead (Pb)-Total	<0.000050		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Lithium (Li)-Total	<0.0010		0.0010	mg/L	03-NOV-20	03-NOV-20	R5277417
Magnesium (Mg)-Total	1.52		0.0050	mg/L	03-NOV-20	03-NOV-20	R5277417
Manganese (Mn)-Total	0.00573		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		02-NOV-20	R5273100
Molybdenum (Mo)-Total	0.000118		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2522994-1 3134-AQ-LAKE1-201024 Sampled By: Client on 24-OCT-20 @ 14:10 Matrix: Surface Water							
Total Metals							
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	03-NOV-20	03-NOV-20	R5277417
Phosphorus (P)-Total	<0.050		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417
Potassium (K)-Total	0.671		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417
Rubidium (Rb)-Total	0.00166		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Selenium (Se)-Total	0.000068		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Silicon (Si)-Total	1.25		0.10	mg/L	03-NOV-20	03-NOV-20	R5277417
Silver (Ag)-Total	<0.000010		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Sodium (Na)-Total	0.745		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417
Strontium (Sr)-Total	0.0291		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Sulfur (S)-Total	0.53		0.50	mg/L	03-NOV-20	03-NOV-20	R5277417
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Thorium (Th)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Tin (Sn)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	03-NOV-20	03-NOV-20	R5277417
Tungsten (W)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Uranium (U)-Total	0.000014		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Vanadium (V)-Total	<0.00050		0.00050	mg/L	03-NOV-20	03-NOV-20	R5277417
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	03-NOV-20	03-NOV-20	R5277417
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					02-NOV-20	R5272688
Dissolved Metals Filtration Location	FIELD					04-NOV-20	R5278962
Aluminum (Al)-Dissolved	0.0024		0.0010	mg/L	04-NOV-20	04-NOV-20	R5280898
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Arsenic (As)-Dissolved	0.00054		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Barium (Ba)-Dissolved	0.00772		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Boron (B)-Dissolved	<0.010		0.010	mg/L	04-NOV-20	04-NOV-20	R5280898
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Calcium (Ca)-Dissolved	10.4		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Chromium (Cr)-Dissolved	0.00023		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Copper (Cu)-Dissolved	0.00062		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Iron (Fe)-Dissolved	0.012		0.010	mg/L	04-NOV-20	04-NOV-20	R5280898
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	04-NOV-20	04-NOV-20	R5280898
Magnesium (Mg)-Dissolved	1.49		0.0050	mg/L	04-NOV-20	04-NOV-20	R5280898
Manganese (Mn)-Dissolved	0.00135		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2522994-1 3134-AQ-LAKE1-201024 Sampled By: Client on 24-OCT-20 @ 14:10 Matrix: Surface Water							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-NOV-20	02-NOV-20	R5272951
Molybdenum (Mo)-Dissolved	0.000111		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	04-NOV-20	04-NOV-20	R5280898
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Potassium (K)-Dissolved	0.687		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Rubidium (Rb)-Dissolved	0.00167		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Selenium (Se)-Dissolved	0.000073		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Silicon (Si)-Dissolved	1.13		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Sodium (Na)-Dissolved	0.741		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Strontium (Sr)-Dissolved	0.0289		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Sulfur (S)-Dissolved	0.77		0.50	mg/L	04-NOV-20	04-NOV-20	R5280898
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	04-NOV-20	04-NOV-20	R5280898
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Uranium (U)-Dissolved	0.000013		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	04-NOV-20	04-NOV-20	R5280898
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	04-NOV-20	04-NOV-20	R5280898
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		02-NOV-20	R5274597
Chromium, Hexavalent	<0.50		0.50	ug/L		02-NOV-20	R5274596
Aggregate Organics							
Chemical Oxygen Demand	22		20	mg/L	04-NOV-20	05-NOV-20	R5281075
L2522994-2 3134-AQ-LAKE2-201024 Sampled By: Client on 24-OCT-20 @ 14:30 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	66.5		1.0	uS/cm		29-OCT-20	R5271017
Hardness (as CaCO3)	32.5		0.50	mg/L		05-NOV-20	
pH	7.43		0.10	pH		29-OCT-20	R5271017
Total Suspended Solids	<3.0		3.0	mg/L		30-OCT-20	R5272206
Total Dissolved Solids	51		13	mg/L		30-OCT-20	R5272234
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		01-NOV-20	R5272612
Alkalinity, Total (as CaCO3)	32.3		2.0	mg/L		29-OCT-20	R5271017
Ammonia, Total (as N)	0.0611		0.0050	mg/L	04-NOV-20	04-NOV-20	R5280058
Bromide (Br)	<0.10		0.10	mg/L	29-OCT-20	31-OCT-20	R5272455
Chloride (Cl)	0.51		0.10	mg/L	29-OCT-20	31-OCT-20	R5272455

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2522994-2 3134-AQ-LAKE2-201024 Sampled By: Client on 24-OCT-20 @ 14:30 Matrix: Surface Water							
Anions and Nutrients							
Fluoride (F)	0.033		0.020	mg/L	29-OCT-20	31-OCT-20	R5272455
Nitrate (as N)	0.055		0.020	mg/L	29-OCT-20	31-OCT-20	R5272455
Nitrite (as N)	<0.010		0.010	mg/L	29-OCT-20	31-OCT-20	R5272455
Total Kjeldahl Nitrogen	0.321		0.050	mg/L	04-NOV-20	05-NOV-20	R5281055
Orthophosphate-Dissolved (as P)	0.0030		0.0030	mg/L	29-OCT-20	31-OCT-20	R5275979
Phosphorus (P)-Total	0.0081		0.0030	mg/L	05-NOV-20	07-NOV-20	R5283639
Sulfate (SO4)	2.12		0.30	mg/L	29-OCT-20	31-OCT-20	R5272455
Organic / Inorganic Carbon							
Dissolved Organic Carbon	7.06		0.50	mg/L		09-NOV-20	R5283339
Total Organic Carbon	6.88		0.50	mg/L		09-NOV-20	R5283327
Total Metals							
Aluminum (Al)-Total	0.0080		0.0030	mg/L	03-NOV-20	03-NOV-20	R5277417
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Arsenic (As)-Total	0.00059		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Barium (Ba)-Total	0.00817		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Boron (B)-Total	<0.010		0.010	mg/L	03-NOV-20	03-NOV-20	R5277417
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Calcium (Ca)-Total	10.3		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Chromium (Cr)-Total	0.00023		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Copper (Cu)-Total	0.00070		0.00050	mg/L	03-NOV-20	03-NOV-20	R5277417
Iron (Fe)-Total	0.033		0.010	mg/L	03-NOV-20	03-NOV-20	R5277417
Lead (Pb)-Total	<0.000050		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Lithium (Li)-Total	<0.0010		0.0010	mg/L	03-NOV-20	03-NOV-20	R5277417
Magnesium (Mg)-Total	1.52		0.0050	mg/L	03-NOV-20	03-NOV-20	R5277417
Manganese (Mn)-Total	0.00527		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		02-NOV-20	R5273100
Molybdenum (Mo)-Total	0.000113		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	03-NOV-20	03-NOV-20	R5277417
Phosphorus (P)-Total	<0.050		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417
Potassium (K)-Total	0.674		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417
Rubidium (Rb)-Total	0.00163		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Selenium (Se)-Total	0.000059		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Silicon (Si)-Total	1.20		0.10	mg/L	03-NOV-20	03-NOV-20	R5277417
Silver (Ag)-Total	<0.000010		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Sodium (Na)-Total	0.720		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417
Strontium (Sr)-Total	0.0275		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Sulfur (S)-Total	0.62		0.50	mg/L	03-NOV-20	03-NOV-20	R5277417

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2522994-2 3134-AQ-LAKE2-201024 Sampled By: Client on 24-OCT-20 @ 14:30 Matrix: Surface Water							
Total Metals							
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Thorium (Th)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Tin (Sn)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	03-NOV-20	03-NOV-20	R5277417
Tungsten (W)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Uranium (U)-Total	0.000014		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Vanadium (V)-Total	<0.00050		0.00050	mg/L	03-NOV-20	03-NOV-20	R5277417
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	03-NOV-20	03-NOV-20	R5277417
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					02-NOV-20	R5272688
Dissolved Metals Filtration Location	FIELD					04-NOV-20	R5278962
Aluminum (Al)-Dissolved	0.0023		0.0010	mg/L	04-NOV-20	04-NOV-20	R5280898
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Arsenic (As)-Dissolved	0.00051		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Barium (Ba)-Dissolved	0.00765		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Boron (B)-Dissolved	<0.010		0.010	mg/L	04-NOV-20	04-NOV-20	R5280898
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Calcium (Ca)-Dissolved	10.6		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Chromium (Cr)-Dissolved	0.00019		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Copper (Cu)-Dissolved	0.00063		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Iron (Fe)-Dissolved	0.011		0.010	mg/L	04-NOV-20	04-NOV-20	R5280898
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Lithium (Li)-Dissolved	0.0011		0.0010	mg/L	04-NOV-20	04-NOV-20	R5280898
Magnesium (Mg)-Dissolved	1.47		0.0050	mg/L	04-NOV-20	04-NOV-20	R5280898
Manganese (Mn)-Dissolved	0.00113		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-NOV-20	02-NOV-20	R5272951
Molybdenum (Mo)-Dissolved	0.000112		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	04-NOV-20	04-NOV-20	R5280898
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Potassium (K)-Dissolved	0.686		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Rubidium (Rb)-Dissolved	0.00166		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Selenium (Se)-Dissolved	0.000062		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Silicon (Si)-Dissolved	1.12		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Sodium (Na)-Dissolved	0.720		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2522994-2 3134-AQ-LAKE2-201024 Sampled By: Client on 24-OCT-20 @ 14:30 Matrix: Surface Water							
Dissolved Metals							
Strontium (Sr)-Dissolved	0.0280		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Sulfur (S)-Dissolved	0.79		0.50	mg/L	04-NOV-20	04-NOV-20	R5280898
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	04-NOV-20	04-NOV-20	R5280898
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Uranium (U)-Dissolved	<0.000010		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	04-NOV-20	04-NOV-20	R5280898
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	04-NOV-20	04-NOV-20	R5280898
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		02-NOV-20	R5274597
Chromium, Hexavalent	<0.50		0.50	ug/L		02-NOV-20	R5274596
Aggregate Organics							
Chemical Oxygen Demand	23		20	mg/L	04-NOV-20	05-NOV-20	R5281075

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Laboratory Control Sample	Silver (Ag)-Dissolved	LCS-L	L2522994-1, -2
Matrix Spike	Dissolved Organic Carbon	MS-B	L2522994-1, -2
Matrix Spike	Total Organic Carbon	MS-B	L2522994-1, -2
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2522994-1, -2
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2522994-1, -2
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2522994-1, -2
Matrix Spike	Calcium (Ca)-Total	MS-B	L2522994-1, -2
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2522994-1, -2
Matrix Spike	Strontium (Sr)-Total	MS-B	L2522994-1, -2
Matrix Spike	Ammonia, Total (as N)	MS-B	L2522994-1, -2

Sample Parameter Qualifier key listed:

Qualifier	Description
LCS-L	Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

C-DOC-HTC-WP	Water	Dissolved Organic Carbon by Combustion	APHA 5310 B-WP

Filtered (0.45 um) sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

C-TOC-HTC-WP	Water	Total Organic Carbon by Combustion	APHA 5310 B-WP

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-PWQO-IC-WT	Water	Chromium +6	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Reference Information

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION

HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-T-CVAA-WT	Water	Total Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Reference Information

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5272612								
WG3436434-2 LCS								
Acidity (as CaCO3)			93.6		%		85-115	01-NOV-20
WG3436434-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	01-NOV-20
ALK-TITR-TB	Water							
Batch R5271017								
WG3434946-2 LCS								
Alkalinity, Total (as CaCO3)			102.9		%		85-115	29-OCT-20
WG3434946-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	29-OCT-20
BR-IC-N-TB	Water							
Batch R5272455								
WG3434965-2 LCS								
Bromide (Br)			95.9		%		85-115	31-OCT-20
WG3434965-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	31-OCT-20
C-DOC-HTC-WP	Water							
Batch R5283339								
WG3442561-2 LCS								
Dissolved Organic Carbon			98.8		%		80-120	09-NOV-20
WG3442561-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	09-NOV-20
C-TOC-HTC-WP	Water							
Batch R5283327								
WG3442574-2 LCS								
Total Organic Carbon			98.6		%		80-120	09-NOV-20
WG3442574-1 MB								
Total Organic Carbon			<0.50		mg/L		0.5	09-NOV-20
CL-L-IC-N-TB	Water							
Batch R5272455								
WG3434965-2 LCS								
Chloride (Cl)			94.3		%		90-110	31-OCT-20
WG3434965-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	31-OCT-20
COD-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COD-TB	Water							
Batch R5281075								
WG3438614-2 LCS								
Chemical Oxygen Demand			105.3		%		85-115	05-NOV-20
WG3438614-1 MB								
Chemical Oxygen Demand			<20		mg/L		20	05-NOV-20
CR-CR6-DIS-WT	Water							
Batch R5274597								
WG3437152-2 LCS								
Chromium (VI)-Dissolved			99.6		%		70-130	02-NOV-20
WG3437152-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	02-NOV-20
CR-CR6-PWQO-IC-WT	Water							
Batch R5274596								
WG3437151-2 LCS								
Chromium, Hexavalent			99.1		%		80-120	02-NOV-20
WG3437151-1 MB								
Chromium, Hexavalent			<0.50		ug/L		0.5	02-NOV-20
EC-TITR-TB	Water							
Batch R5271017								
WG3434946-2 LCS								
Conductivity (EC)			100.7		%		90-110	29-OCT-20
WG3434946-1 MB								
Conductivity (EC)			1.2		uS/cm		2	29-OCT-20
F-IC-N-TB	Water							
Batch R5272455								
WG3434965-2 LCS								
Fluoride (F)			94.2		%		90-110	31-OCT-20
WG3434965-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	31-OCT-20
HG-D-CVAA-WT	Water							
Batch R5272951								
WG3436853-2 LCS								
Mercury (Hg)-Dissolved			109.0		%		80-120	02-NOV-20
WG3436853-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	02-NOV-20
HG-T-CVAA-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAA-WT	Water							
Batch R5273100								
WG3436971-2 LCS								
Mercury (Hg)-Total			109.0		%		80-120	02-NOV-20
WG3436971-1 MB								
Mercury (Hg)-Total			<0.0000050		mg/L		0.000005	02-NOV-20
MET-D-CCMS-TB	Water							
Batch R5280898								
WG3438508-11 DUP		**L2522994-1**						
Aluminum (Al)-Dissolved		0.0024	0.0023		mg/L	4.1	20	04-NOV-20
Antimony (Sb)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-20
Arsenic (As)-Dissolved		0.00054	0.00050		mg/L	7.8	20	04-NOV-20
Barium (Ba)-Dissolved		0.00772	0.00768		mg/L	0.6	20	04-NOV-20
Beryllium (Be)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-20
Bismuth (Bi)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	04-NOV-20
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	04-NOV-20
Cadmium (Cd)-Dissolved		<0.0000050	<0.0000050	RPD-NA	mg/L	N/A	20	04-NOV-20
Calcium (Ca)-Dissolved		10.4	10.5		mg/L	1.5	20	04-NOV-20
Cesium (Cs)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	04-NOV-20
Chromium (Cr)-Dissolved		0.00023	0.00020		mg/L	14	20	04-NOV-20
Cobalt (Co)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-20
Copper (Cu)-Dissolved		0.00062	0.00062		mg/L	0.9	20	04-NOV-20
Iron (Fe)-Dissolved		0.012	0.012		mg/L	3.2	20	04-NOV-20
Lead (Pb)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	04-NOV-20
Lithium (Li)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	04-NOV-20
Magnesium (Mg)-Dissolved		1.49	1.47		mg/L	1.2	20	04-NOV-20
Manganese (Mn)-Dissolved		0.00135	0.00133		mg/L	1.0	20	04-NOV-20
Molybdenum (Mo)-Dissolved		0.000111	0.000102		mg/L	7.8	20	04-NOV-20
Nickel (Ni)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	04-NOV-20
Phosphorus (P)-Dissolved		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-NOV-20
Potassium (K)-Dissolved		0.687	0.675		mg/L	1.8	20	04-NOV-20
Rubidium (Rb)-Dissolved		0.00167	0.00161		mg/L	3.9	20	04-NOV-20
Selenium (Se)-Dissolved		0.000073	0.000079		mg/L	7.0	20	04-NOV-20
Silicon (Si)-Dissolved		1.13	1.14		mg/L	1.6	20	04-NOV-20
Silver (Ag)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	04-NOV-20
Sodium (Na)-Dissolved		0.741	0.729		mg/L	1.6	20	04-NOV-20
Strontium (Sr)-Dissolved		0.0289	0.0288		mg/L	0.1	20	04-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5280898								
WG3438508-11 DUP		**L2522994-1**						
Sulfur (S)-Dissolved		0.77	0.84		mg/L	8.6	20	04-NOV-20
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	04-NOV-20
Thallium (Tl)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	04-NOV-20
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-20
Tin (Sn)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-20
Titanium (Ti)-Dissolved		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	04-NOV-20
Tungsten (W)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-20
Uranium (U)-Dissolved		0.000013	0.000012		mg/L	9.5	20	04-NOV-20
Vanadium (V)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	04-NOV-20
Zinc (Zn)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	04-NOV-20
Zirconium (Zr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	04-NOV-20
WG3438508-10 LCS								
Aluminum (Al)-Dissolved			97.3		%		80-120	04-NOV-20
Antimony (Sb)-Dissolved			95.4		%		80-120	04-NOV-20
Arsenic (As)-Dissolved			96.8		%		80-120	04-NOV-20
Barium (Ba)-Dissolved			98.2		%		80-120	04-NOV-20
Beryllium (Be)-Dissolved			89.1		%		80-120	04-NOV-20
Bismuth (Bi)-Dissolved			91.2		%		80-120	04-NOV-20
Boron (B)-Dissolved			89.0		%		80-120	04-NOV-20
Cadmium (Cd)-Dissolved			97.1		%		80-120	04-NOV-20
Calcium (Ca)-Dissolved			88.8		%		80-120	04-NOV-20
Cesium (Cs)-Dissolved			107.9		%		80-120	04-NOV-20
Chromium (Cr)-Dissolved			95.8		%		80-120	04-NOV-20
Cobalt (Co)-Dissolved			96.2		%		80-120	04-NOV-20
Copper (Cu)-Dissolved			94.7		%		80-120	04-NOV-20
Iron (Fe)-Dissolved			113.6		%		80-120	04-NOV-20
Lead (Pb)-Dissolved			91.4		%		80-120	04-NOV-20
Lithium (Li)-Dissolved			92.6		%		80-120	04-NOV-20
Magnesium (Mg)-Dissolved			100.0		%		80-120	04-NOV-20
Manganese (Mn)-Dissolved			97.3		%		80-120	04-NOV-20
Molybdenum (Mo)-Dissolved			87.0		%		80-120	04-NOV-20
Nickel (Ni)-Dissolved			97.4		%		80-120	04-NOV-20
Phosphorus (P)-Dissolved			96.2		%		80-120	04-NOV-20
Potassium (K)-Dissolved			102.6		%		80-120	04-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5280898								
WG3438508-10 LCS								
Rubidium (Rb)-Dissolved			95.9		%		80-120	04-NOV-20
Selenium (Se)-Dissolved			93.0		%		80-120	04-NOV-20
Silicon (Si)-Dissolved			89.2		%		80-120	04-NOV-20
Silver (Ag)-Dissolved			40.0	LCS-L	%		80-120	04-NOV-20
Sodium (Na)-Dissolved			96.7		%		80-120	04-NOV-20
Strontium (Sr)-Dissolved			93.3		%		80-120	04-NOV-20
Sulfur (S)-Dissolved			109.1		%		80-120	04-NOV-20
Tellurium (Te)-Dissolved			92.3		%		80-120	04-NOV-20
Thallium (Tl)-Dissolved			91.1		%		80-120	04-NOV-20
Thorium (Th)-Dissolved			97.6		%		80-120	04-NOV-20
Tin (Sn)-Dissolved			96.6		%		80-120	04-NOV-20
Titanium (Ti)-Dissolved			95.4		%		80-120	04-NOV-20
Tungsten (W)-Dissolved			92.7		%		80-120	04-NOV-20
Uranium (U)-Dissolved			93.2		%		80-120	04-NOV-20
Vanadium (V)-Dissolved			96.7		%		80-120	04-NOV-20
Zinc (Zn)-Dissolved			95.5		%		80-120	04-NOV-20
Zirconium (Zr)-Dissolved			88.6		%		80-120	04-NOV-20
WG3438508-9 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	04-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	04-NOV-20
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	04-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	04-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	04-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	04-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5280898								
WG3438508-9 MB								
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	04-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	04-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	04-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	04-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	04-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	04-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	04-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	04-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-20
WG3438508-12 MS		**L2522994-2**						
Aluminum (Al)-Dissolved			103.8		%		70-130	04-NOV-20
Antimony (Sb)-Dissolved			96.1		%		70-130	04-NOV-20
Arsenic (As)-Dissolved			107.1		%		70-130	04-NOV-20
Barium (Ba)-Dissolved			105.9		%		70-130	04-NOV-20
Beryllium (Be)-Dissolved			104.6		%		70-130	04-NOV-20
Bismuth (Bi)-Dissolved			102.4		%		70-130	04-NOV-20
Boron (B)-Dissolved			90.3		%		70-130	04-NOV-20
Cadmium (Cd)-Dissolved			107.4		%		70-130	04-NOV-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	04-NOV-20
Cesium (Cs)-Dissolved			110.3		%		70-130	04-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5280898								
WG3438508-12 MS		**L2522994-2**						
Chromium (Cr)-Dissolved			102.4		%		70-130	04-NOV-20
Cobalt (Co)-Dissolved			103.1		%		70-130	04-NOV-20
Copper (Cu)-Dissolved			102.6		%		70-130	04-NOV-20
Iron (Fe)-Dissolved			98.8		%		70-130	04-NOV-20
Lead (Pb)-Dissolved			105.0		%		70-130	04-NOV-20
Lithium (Li)-Dissolved			102.3		%		70-130	04-NOV-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	04-NOV-20
Manganese (Mn)-Dissolved			103.0		%		70-130	04-NOV-20
Molybdenum (Mo)-Dissolved			97.9		%		70-130	04-NOV-20
Nickel (Ni)-Dissolved			105.5		%		70-130	04-NOV-20
Phosphorus (P)-Dissolved			107.4		%		70-130	04-NOV-20
Potassium (K)-Dissolved			108.7		%		70-130	04-NOV-20
Rubidium (Rb)-Dissolved			104.4		%		70-130	04-NOV-20
Selenium (Se)-Dissolved			105.4		%		70-130	04-NOV-20
Silicon (Si)-Dissolved			86.4		%		70-130	04-NOV-20
Silver (Ag)-Dissolved			100.4		%		70-130	04-NOV-20
Sodium (Na)-Dissolved			104.3		%		70-130	04-NOV-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	04-NOV-20
Sulfur (S)-Dissolved			94.9		%		70-130	04-NOV-20
Tellurium (Te)-Dissolved			96.8		%		70-130	04-NOV-20
Thallium (Tl)-Dissolved			105.1		%		70-130	04-NOV-20
Thorium (Th)-Dissolved			111.1		%		70-130	04-NOV-20
Tin (Sn)-Dissolved			96.0		%		70-130	04-NOV-20
Titanium (Ti)-Dissolved			99.98		%		70-130	04-NOV-20
Tungsten (W)-Dissolved			101.1		%		70-130	04-NOV-20
Uranium (U)-Dissolved			107.0		%		70-130	04-NOV-20
Vanadium (V)-Dissolved			102.9		%		70-130	04-NOV-20
Zinc (Zn)-Dissolved			106.8		%		70-130	04-NOV-20
Zirconium (Zr)-Dissolved			101.6		%		70-130	04-NOV-20
MET-T-CCMS-TB	Water							
Batch R5277417								
WG3437719-10 LCS								
Aluminum (Al)-Total			100.4		%		80-120	03-NOV-20
Antimony (Sb)-Total			103.1		%		80-120	03-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5277417								
WG3437719-10 LCS								
Arsenic (As)-Total			100.3		%		80-120	03-NOV-20
Barium (Ba)-Total			103.1		%		80-120	03-NOV-20
Beryllium (Be)-Total			95.6		%		80-120	03-NOV-20
Bismuth (Bi)-Total			101.1		%		80-120	03-NOV-20
Boron (B)-Total			92.4		%		80-120	03-NOV-20
Cadmium (Cd)-Total			97.7		%		80-120	03-NOV-20
Calcium (Ca)-Total			98.2		%		80-120	03-NOV-20
Cesium (Cs)-Total			105.9		%		80-120	03-NOV-20
Chromium (Cr)-Total			100.4		%		80-120	03-NOV-20
Cobalt (Co)-Total			99.2		%		80-120	03-NOV-20
Copper (Cu)-Total			99.0		%		80-120	03-NOV-20
Iron (Fe)-Total			117.3		%		80-120	03-NOV-20
Lead (Pb)-Total			98.2		%		80-120	03-NOV-20
Lithium (Li)-Total			98.8		%		80-120	03-NOV-20
Magnesium (Mg)-Total			100.7		%		80-120	03-NOV-20
Manganese (Mn)-Total			98.2		%		80-120	03-NOV-20
Molybdenum (Mo)-Total			101.7		%		80-120	03-NOV-20
Nickel (Ni)-Total			97.8		%		80-120	03-NOV-20
Phosphorus (P)-Total			96.1		%		80-120	03-NOV-20
Potassium (K)-Total			103.9		%		80-120	03-NOV-20
Rubidium (Rb)-Total			97.9		%		80-120	03-NOV-20
Selenium (Se)-Total			94.9		%		80-120	03-NOV-20
Silicon (Si)-Total			100.7		%		80-120	03-NOV-20
Silver (Ag)-Total			99.5		%		80-120	03-NOV-20
Sodium (Na)-Total			101.4		%		80-120	03-NOV-20
Strontium (Sr)-Total			103.2		%		80-120	03-NOV-20
Sulfur (S)-Total			93.9		%		80-120	03-NOV-20
Tellurium (Te)-Total			100.8		%		80-120	03-NOV-20
Thallium (Tl)-Total			99.3		%		80-120	03-NOV-20
Thorium (Th)-Total			103.8		%		80-120	03-NOV-20
Tin (Sn)-Total			100.2		%		80-120	03-NOV-20
Titanium (Ti)-Total			96.3		%		80-120	03-NOV-20
Tungsten (W)-Total			99.0		%		80-120	03-NOV-20
Uranium (U)-Total			100.7		%		80-120	03-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5277417								
WG3437719-10 LCS								
Vanadium (V)-Total			98.8		%		80-120	03-NOV-20
Zinc (Zn)-Total			94.0		%		80-120	03-NOV-20
Zirconium (Zr)-Total			107.3		%		80-120	03-NOV-20
WG3437719-9 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	03-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	03-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	03-NOV-20
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	03-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	03-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	03-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	03-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	03-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	03-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	03-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	03-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	03-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	03-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	03-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	03-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	03-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	03-NOV-20
Silicon (Si)-Total			<0.10		mg/L		0.1	03-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	03-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	03-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	03-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	03-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	03-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5277417								
WG3437719-9 MB								
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	03-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	03-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	03-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	03-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	03-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	03-NOV-20
NH3-F-TB	Water							
Batch R5280058								
WG3438549-2 LCS								
Ammonia, Total (as N)			103.6		%		85-115	04-NOV-20
WG3438549-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	04-NOV-20
NO2-IC-N-TB	Water							
Batch R5272455								
WG3434965-2 LCS								
Nitrite (as N)			94.0		%		90-110	31-OCT-20
WG3434965-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	31-OCT-20
NO3-IC-N-TB	Water							
Batch R5272455								
WG3434965-2 LCS								
Nitrate (as N)			96.0		%		90-110	31-OCT-20
WG3434965-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	31-OCT-20
P-T-COL-TB	Water							
Batch R5283639								
WG3438592-2 LCS								
Phosphorus (P)-Total			100.1		%		80-120	07-NOV-20
WG3438592-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	07-NOV-20
PH-TITR-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-TITR-TB	Water							
Batch R5271017								
WG3434946-2 LCS								
pH			6.99		pH		6.9-7.1	29-OCT-20
PO4-DO-COL-TB	Water							
Batch R5275979								
WG3434951-2 LCS								
Orthophosphate-Dissolved (as P)			103.1		%		80-120	31-OCT-20
WG3434951-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	31-OCT-20
SO4-IC-N-TB	Water							
Batch R5272455								
WG3434965-2 LCS								
Sulfate (SO4)			96.1		%		90-110	31-OCT-20
WG3434965-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	31-OCT-20
TDS-TB	Water							
Batch R5272234								
WG3435497-2 LCS								
Total Dissolved Solids			98.4		%		85-115	30-OCT-20
WG3435497-1 MB								
Total Dissolved Solids			<10		mg/L		10	30-OCT-20
TKN-F-TB	Water							
Batch R5281055								
WG3438572-3 DUP		**L2522994-1**						
Total Kjeldahl Nitrogen		0.311	0.283		mg/L	9.5	20	05-NOV-20
WG3438572-2 LCS								
Total Kjeldahl Nitrogen			88.4		%		75-125	05-NOV-20
WG3438572-1 MB								
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	05-NOV-20
WG3438572-4 MS		**L2522994-2**						
Total Kjeldahl Nitrogen			107.4		%		70-130	05-NOV-20
TSS-TB	Water							
Batch R5272206								
WG3435499-2 LCS								
Total Suspended Solids			92.7		%		85-115	30-OCT-20
WG3435499-1 MB								
Total Suspended Solids			<3.0		mg/L		3	30-OCT-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
LCS-L	Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	24-OCT-20 14:10	29-OCT-20 09:23	4	5	days	EHTR
	2	24-OCT-20 14:30	29-OCT-20 09:23	4	5	days	EHTR

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2522994 were received on 28-OCT-20 16:42.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2522994-COFC

COC Number: 17 -

Page 1 of 3

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ ☐ NO
	Copy of Invoice with Report ☐ ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☑ ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shaun@firstmininggold.com / shila@firstmininggold.com
Email 3	john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Project Information	
ALS Account # / Quote #:	20864 / Q84154
Job #:	Springpole Pump Test - Surface Water
PO / AFE:	
LSD:	First Mining Gold Project
ALS Lab Work Order # (lab use only):	L2522994

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact:	Sampler:

Select Service Level below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	F, NO2,NO3, pH, SO4, PO4	TDS, TSS	DOC, COD	TOC, Total Ammonia, Total Phosphorus, TKN	Total Metals	Dissolved Metals, Hardness	Total Mercury	Dissolved Mercury	Total CR6	Dissolved CR6	Dissolved Inorgainc Carbon (DIC)	Total Methyl Mercury	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
						F/P	P	P	F/P	P	F/P	P	F/P	P	F/P		P			
	3134-AQ-Lake1-201024	24-Oct-20	14:10	Surface Water	9	X	X	X	X	X	X	X	X	X	X	X				
	3134-AQ-Lake2-201024	24-Oct-20	14:30	Surface Water	9	X	X	X	X	X	X	X	X	X	X	X				

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ ☑ NO	
Are samples for human consumption/ use? ☐ ☑ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
2.6							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
E Soak	Oct 27/20	10:00	AL	Oct 28/20	4:40			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: David Mchaina
c/ o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2

Date Received: 28- OCT- 20
Report Date: 06- NOV- 20 13:29 (MT)
Version: FINAL

Client Phone: 705- 929- 5245

Certificate of Analysis

Lab Work Order #: L2523001

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - CHLORIDE
C of C Numbers:
Legal Site Desc: First Mining Gold Project

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2523001-1 3134-AQ-SPW20-001-201026 Sampled By: Client on 26-OCT-20 @ 12:00 Matrix: Groundwater							
Anions and Nutrients							
Chloride (Cl)	22.7		0.20	mg/L	31-OCT-20	03-NOV-20	R5277345

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Chloride (Cl)	B	L2523001-1

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 1805 - 925 West Georgia Street
Vancouver BC V6C 3L2
Contact: David Mchaina

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB	Water							
Batch R5277345								
WG3436456-2 LCS								
Chloride (Cl)			92.2		%		90-110	03-NOV-20
WG3436456-1 MB								
Chloride (Cl)			0.13	B	mg/L		0.1	03-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

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Canada Toll Free: 1 800 668 9878

L2523001-COFC

COC Number: 17 -

Page 3 of 3

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shaun@firstmininggold.com / shila@firstmininggold.com
Email 3	john_ffc@nfld.net / eunjeong_ffc@nfld.net
Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Project Information	
ALS Account # / Quote #:	20884 / Q64154
Job #:	Springpole Pump Test - Chloride
PO / AFE:	
LSD:	First Mining Gold Project
ALS Lab Work Order # (lab use only):	L2523001

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact:	Sampler:

- Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Chloride (Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below)	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-AQ-SPW20-001-201026	26-Oct-20	12:00	Groundwater	1	X		

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
2.6							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
E Seok	Oct. 27/20	10:00	AL	Oct 28/20	4:42			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 28- OCT- 20
Report Date: 07- DEC- 20 09:32 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2523011

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - GROUNDWATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2523011-1 3134-AQ-SPW20-001-201024 Sampled By: Client on 24-OCT-20 @ 15:30 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	800		1.0	uS/cm		31-OCT-20	R5272448
Hardness (as CaCO3)	393		0.50	mg/L		05-NOV-20	
pH	7.93		0.10	pH		31-OCT-20	R5272448
Total Suspended Solids	<3.0		3.0	mg/L		30-OCT-20	R5272206
Total Dissolved Solids	610		20	mg/L		30-OCT-20	R5272234
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		01-NOV-20	R5272612
Alkalinity, Total (as CaCO3)	248		2.0	mg/L		31-OCT-20	R5272448
Ammonia, Total (as N)	0.237		0.0050	mg/L	05-NOV-20	06-NOV-20	R5282061
Bromide (Br)	0.44		0.10	mg/L	31-OCT-20	31-OCT-20	R5272455
Chloride (Cl)	23.3		0.10	mg/L	31-OCT-20	31-OCT-20	R5272455
Fluoride (F)	0.149		0.020	mg/L	31-OCT-20	31-OCT-20	R5272455
Nitrate (as N)	0.023		0.020	mg/L	31-OCT-20	31-OCT-20	R5272455
Nitrite (as N)	<0.010		0.010	mg/L	31-OCT-20	31-OCT-20	R5272455
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	30-OCT-20	31-OCT-20	R5275979
Phosphorus (P)-Total	<0.0030		0.0030	mg/L	09-NOV-20	10-NOV-20	R5283581
Sulfate (SO4)	191		0.30	mg/L	31-OCT-20	31-OCT-20	R5272455
Organic / Inorganic Carbon							
Dissolved Organic Carbon	6.22		0.50	mg/L		09-NOV-20	R5284252
Total Metals							
Aluminum (Al)-Total	0.0110		0.0030	mg/L	03-NOV-20	03-NOV-20	R5277417
Antimony (Sb)-Total	0.00048		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Arsenic (As)-Total	0.00475		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Barium (Ba)-Total	0.0898		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Boron (B)-Total	0.025		0.010	mg/L	03-NOV-20	03-NOV-20	R5277417
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Calcium (Ca)-Total	133		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417
Cesium (Cs)-Total	0.000365		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Chromium (Cr)-Total	0.00044		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Cobalt (Co)-Total	0.00028		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Copper (Cu)-Total	<0.00050		0.00050	mg/L	03-NOV-20	03-NOV-20	R5277417
Iron (Fe)-Total	1.20		0.010	mg/L	03-NOV-20	03-NOV-20	R5277417
Lead (Pb)-Total	0.000227		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Lithium (Li)-Total	0.0027		0.0010	mg/L	03-NOV-20	03-NOV-20	R5277417
Magnesium (Mg)-Total	17.1		0.0050	mg/L	03-NOV-20	03-NOV-20	R5277417
Manganese (Mn)-Total	0.505		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Molybdenum (Mo)-Total	0.00268		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Nickel (Ni)-Total	0.00175		0.00050	mg/L	03-NOV-20	03-NOV-20	R5277417
Phosphorus (P)-Total	<0.050		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417
Potassium (K)-Total	2.00		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2523011-1 3134-AQ-SPW20-001-201024 Sampled By: Client on 24-OCT-20 @ 15:30 Matrix: Groundwater							
Total Metals							
Rubidium (Rb)-Total	0.00258		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Selenium (Se)-Total	<0.000050		0.000050	mg/L	03-NOV-20	03-NOV-20	R5277417
Silicon (Si)-Total	5.94		0.10	mg/L	03-NOV-20	03-NOV-20	R5277417
Silver (Ag)-Total	<0.000010		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Sodium (Na)-Total	14.4		0.050	mg/L	03-NOV-20	03-NOV-20	R5277417
Strontium (Sr)-Total	3.03		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Sulfur (S)-Total	65.3		0.50	mg/L	03-NOV-20	03-NOV-20	R5277417
Tellurium (Te)-Total	0.00021		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Thorium (Th)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Tin (Sn)-Total	<0.00010		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	03-NOV-20	03-NOV-20	R5277417
Tungsten (W)-Total	0.00598		0.00010	mg/L	03-NOV-20	03-NOV-20	R5277417
Uranium (U)-Total	0.000474		0.000010	mg/L	03-NOV-20	03-NOV-20	R5277417
Vanadium (V)-Total	0.00140		0.00050	mg/L	03-NOV-20	03-NOV-20	R5277417
Zinc (Zn)-Total	0.0138		0.0030	mg/L	03-NOV-20	03-NOV-20	R5277417
Zirconium (Zr)-Total	0.00302		0.00020	mg/L	03-NOV-20	03-NOV-20	R5277417
Dissolved Metals							
Dissolved Mercury Filtration Location	LAB					05-NOV-20	R5279697
Dissolved Metals Filtration Location	FIELD					04-NOV-20	R5278962
Aluminum (Al)-Dissolved	0.0095		0.0010	mg/L	04-NOV-20	04-NOV-20	R5280898
Antimony (Sb)-Dissolved	0.00047		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Arsenic (As)-Dissolved	0.00462		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Barium (Ba)-Dissolved	0.0899		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Beryllium (Be)-Dissolved	0.00011		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Boron (B)-Dissolved	0.031		0.010	mg/L	04-NOV-20	04-NOV-20	R5280898
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Calcium (Ca)-Dissolved	130		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Cesium (Cs)-Dissolved	0.000367		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Chromium (Cr)-Dissolved	0.00033		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Cobalt (Co)-Dissolved	0.00028		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Iron (Fe)-Dissolved	1.18		0.010	mg/L	04-NOV-20	04-NOV-20	R5280898
Lead (Pb)-Dissolved	0.000200		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Lithium (Li)-Dissolved	0.0024		0.0010	mg/L	04-NOV-20	04-NOV-20	R5280898
Magnesium (Mg)-Dissolved	16.6		0.0050	mg/L	04-NOV-20	04-NOV-20	R5280898
Manganese (Mn)-Dissolved	0.498		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	05-NOV-20	05-NOV-20	R5280762
Molybdenum (Mo)-Dissolved	0.00252		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Nickel (Ni)-Dissolved	0.00168		0.00050	mg/L	04-NOV-20	04-NOV-20	R5280898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2523011-1 3134-AQ-SPW20-001-201024 Sampled By: Client on 24-OCT-20 @ 15:30 Matrix: Groundwater							
Dissolved Metals							
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Potassium (K)-Dissolved	2.05		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Rubidium (Rb)-Dissolved	0.00257		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Selenium (Se)-Dissolved	0.000073		0.000050	mg/L	04-NOV-20	04-NOV-20	R5280898
Silicon (Si)-Dissolved	5.67		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Sodium (Na)-Dissolved	14.5		0.050	mg/L	04-NOV-20	04-NOV-20	R5280898
Strontium (Sr)-Dissolved	2.94		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Sulfur (S)-Dissolved	61.1		0.50	mg/L	04-NOV-20	04-NOV-20	R5280898
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	04-NOV-20	04-NOV-20	R5280898
Tungsten (W)-Dissolved	0.00586		0.00010	mg/L	04-NOV-20	04-NOV-20	R5280898
Uranium (U)-Dissolved	0.000436		0.000010	mg/L	04-NOV-20	04-NOV-20	R5280898
Vanadium (V)-Dissolved	0.00114		0.00050	mg/L	04-NOV-20	04-NOV-20	R5280898
Zinc (Zn)-Dissolved	0.0208	DTC	0.0010	mg/L	04-NOV-20	04-NOV-20	R5280898
Zirconium (Zr)-Dissolved	0.00276		0.00020	mg/L	04-NOV-20	04-NOV-20	R5280898
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		02-NOV-20	R5274596

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Laboratory Control Sample	Silver (Ag)-Dissolved	LCS-L	L2523011-1
Method Blank	Orthophosphate-Dissolved (as P)	MB-LOR	L2523011-1
Matrix Spike	Aluminum (Al)-Dissolved	MS-B	L2523011-1
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2523011-1
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2523011-1
Matrix Spike	Calcium (Ca)-Total	MS-B	L2523011-1
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2523011-1
Matrix Spike	Strontium (Sr)-Total	MS-B	L2523011-1
Matrix Spike	Phosphorus (P)-Total	MS-B	L2523011-1
Matrix Spike	Sulfate (SO4)	MS-B	L2523011-1

Sample Parameter Qualifier key listed:

Qualifier	Description
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
LCS-L	Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

C-DOC-HTC-WP	Water	Dissolved Organic Carbon by Combustion	APHA 5310 B-WP

Filtered (0.45 um) sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction

Reference Information

with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2523011 Report Date: 07-DEC-20

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5272612								
WG3436316-2 LCS								
Acidity (as CaCO3)			93.9		%		85-115	01-NOV-20
WG3436316-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	01-NOV-20
ALK-TITR-TB	Water							
Batch R5272448								
WG3435969-2 LCS								
Alkalinity, Total (as CaCO3)			103.9		%		85-115	31-OCT-20
WG3435969-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	31-OCT-20
BR-IC-N-TB	Water							
Batch R5272455								
WG3436325-2 LCS								
Bromide (Br)			105.2		%		85-115	31-OCT-20
WG3436325-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	31-OCT-20
C-DOC-HTC-WP	Water							
Batch R5284252								
WG3443362-2 LCS								
Dissolved Organic Carbon			103.0		%		80-120	09-NOV-20
WG3443362-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	09-NOV-20
CL-L-IC-N-TB	Water							
Batch R5272455								
WG3436325-2 LCS								
Chloride (Cl)			105.7		%		90-110	31-OCT-20
WG3436325-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	31-OCT-20
CR-CR6-DIS-WT	Water							
Batch R5274596								
WG3437151-2 LCS								
Chromium (VI)-Dissolved			99.1		%		70-130	02-NOV-20
WG3437151-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	02-NOV-20
EC-TITR-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-TITR-TB	Water							
Batch R5272448								
WG3435969-2 LCS								
Conductivity (EC)			95.3		%		90-110	31-OCT-20
WG3435969-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	31-OCT-20
F-IC-N-TB	Water							
Batch R5272455								
WG3436325-2 LCS								
Fluoride (F)			105.8		%		90-110	31-OCT-20
WG3436325-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	31-OCT-20
HG-D-CVAA-WT	Water							
Batch R5280762								
WG3439379-2 LCS								
Mercury (Hg)-Dissolved			105.0		%		80-120	05-NOV-20
WG3439379-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	05-NOV-20
MET-D-CCMS-TB	Water							
Batch R5280898								
WG3438508-14 LCS								
Aluminum (Al)-Dissolved			96.7		%		80-120	04-NOV-20
Antimony (Sb)-Dissolved			95.4		%		80-120	04-NOV-20
Arsenic (As)-Dissolved			97.3		%		80-120	04-NOV-20
Barium (Ba)-Dissolved			97.1		%		80-120	04-NOV-20
Beryllium (Be)-Dissolved			97.1		%		80-120	04-NOV-20
Bismuth (Bi)-Dissolved			95.5		%		80-120	04-NOV-20
Boron (B)-Dissolved			83.8		%		80-120	04-NOV-20
Cadmium (Cd)-Dissolved			99.7		%		80-120	04-NOV-20
Calcium (Ca)-Dissolved			95.7		%		80-120	04-NOV-20
Cesium (Cs)-Dissolved			105.4		%		80-120	04-NOV-20
Chromium (Cr)-Dissolved			97.0		%		80-120	04-NOV-20
Cobalt (Co)-Dissolved			96.6		%		80-120	04-NOV-20
Copper (Cu)-Dissolved			95.6		%		80-120	04-NOV-20
Iron (Fe)-Dissolved			115.0		%		80-120	04-NOV-20
Lead (Pb)-Dissolved			100.6		%		80-120	04-NOV-20
Lithium (Li)-Dissolved			99.0		%		80-120	04-NOV-20
Magnesium (Mg)-Dissolved			99.2		%		80-120	04-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5280898								
WG3438508-14 LCS								
Manganese (Mn)-Dissolved			97.7		%		80-120	04-NOV-20
Molybdenum (Mo)-Dissolved			93.8		%		80-120	04-NOV-20
Nickel (Ni)-Dissolved			98.2		%		80-120	04-NOV-20
Phosphorus (P)-Dissolved			103.7		%		80-120	04-NOV-20
Potassium (K)-Dissolved			100.6		%		80-120	04-NOV-20
Rubidium (Rb)-Dissolved			97.0		%		80-120	04-NOV-20
Selenium (Se)-Dissolved			97.0		%		80-120	04-NOV-20
Silicon (Si)-Dissolved			91.0		%		80-120	04-NOV-20
Silver (Ag)-Dissolved			40.1	LCS-L	%		80-120	04-NOV-20
Sodium (Na)-Dissolved			99.8		%		80-120	04-NOV-20
Strontium (Sr)-Dissolved			100.8		%		80-120	04-NOV-20
Sulfur (S)-Dissolved			103.0		%		80-120	04-NOV-20
Tellurium (Te)-Dissolved			95.4		%		80-120	04-NOV-20
Thallium (Tl)-Dissolved			100.7		%		80-120	04-NOV-20
Thorium (Th)-Dissolved			105.6		%		80-120	04-NOV-20
Tin (Sn)-Dissolved			96.2		%		80-120	04-NOV-20
Titanium (Ti)-Dissolved			95.1		%		80-120	04-NOV-20
Tungsten (W)-Dissolved			100.6		%		80-120	04-NOV-20
Uranium (U)-Dissolved			105.4		%		80-120	04-NOV-20
Vanadium (V)-Dissolved			98.3		%		80-120	04-NOV-20
Zinc (Zn)-Dissolved			97.2		%		80-120	04-NOV-20
Zirconium (Zr)-Dissolved			96.0		%		80-120	04-NOV-20
WG3438508-13 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	04-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	04-NOV-20
Cadmium (Cd)-Dissolved			<0.0000050		mg/L		0.000005	04-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	04-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5280898								
WG3438508-13 MB								
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	04-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	04-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	04-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	04-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	04-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	04-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	04-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	04-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	04-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	04-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-20
MET-T-CCMS-TB	Water							
Batch R5277417								
WG3437719-10 LCS								
Aluminum (Al)-Total			100.4		%		80-120	03-NOV-20
Antimony (Sb)-Total			103.1		%		80-120	03-NOV-20
Arsenic (As)-Total			100.3		%		80-120	03-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5277417								
WG3437719-10 LCS								
Barium (Ba)-Total			103.1		%		80-120	03-NOV-20
Beryllium (Be)-Total			95.6		%		80-120	03-NOV-20
Bismuth (Bi)-Total			101.1		%		80-120	03-NOV-20
Boron (B)-Total			92.4		%		80-120	03-NOV-20
Cadmium (Cd)-Total			97.7		%		80-120	03-NOV-20
Calcium (Ca)-Total			98.2		%		80-120	03-NOV-20
Cesium (Cs)-Total			105.9		%		80-120	03-NOV-20
Chromium (Cr)-Total			100.4		%		80-120	03-NOV-20
Cobalt (Co)-Total			99.2		%		80-120	03-NOV-20
Copper (Cu)-Total			99.0		%		80-120	03-NOV-20
Iron (Fe)-Total			117.3		%		80-120	03-NOV-20
Lead (Pb)-Total			98.2		%		80-120	03-NOV-20
Lithium (Li)-Total			98.8		%		80-120	03-NOV-20
Magnesium (Mg)-Total			100.7		%		80-120	03-NOV-20
Manganese (Mn)-Total			98.2		%		80-120	03-NOV-20
Molybdenum (Mo)-Total			101.7		%		80-120	03-NOV-20
Nickel (Ni)-Total			97.8		%		80-120	03-NOV-20
Phosphorus (P)-Total			96.1		%		80-120	03-NOV-20
Potassium (K)-Total			103.9		%		80-120	03-NOV-20
Rubidium (Rb)-Total			97.9		%		80-120	03-NOV-20
Selenium (Se)-Total			94.9		%		80-120	03-NOV-20
Silicon (Si)-Total			100.7		%		80-120	03-NOV-20
Silver (Ag)-Total			99.5		%		80-120	03-NOV-20
Sodium (Na)-Total			101.4		%		80-120	03-NOV-20
Strontium (Sr)-Total			103.2		%		80-120	03-NOV-20
Sulfur (S)-Total			93.9		%		80-120	03-NOV-20
Tellurium (Te)-Total			100.8		%		80-120	03-NOV-20
Thallium (Tl)-Total			99.3		%		80-120	03-NOV-20
Thorium (Th)-Total			103.8		%		80-120	03-NOV-20
Tin (Sn)-Total			100.2		%		80-120	03-NOV-20
Titanium (Ti)-Total			96.3		%		80-120	03-NOV-20
Tungsten (W)-Total			99.0		%		80-120	03-NOV-20
Uranium (U)-Total			100.7		%		80-120	03-NOV-20
Vanadium (V)-Total			98.8		%		80-120	03-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5277417								
WG3437719-10 LCS								
Zinc (Zn)-Total			94.0		%		80-120	03-NOV-20
Zirconium (Zr)-Total			107.3		%		80-120	03-NOV-20
WG3437719-9 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	03-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	03-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	03-NOV-20
Cadmium (Cd)-Total			<0.000005C		mg/L		0.000005	03-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	03-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	03-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	03-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	03-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	03-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	03-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	03-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	03-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	03-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	03-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	03-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	03-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	03-NOV-20
Silicon (Si)-Total			<0.10		mg/L		0.1	03-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	03-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	03-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	03-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	03-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	03-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	03-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5277417								
WG3437719-9 MB								
Thorium (Th)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	03-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	03-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	03-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	03-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	03-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	03-NOV-20
NH3-F-TB	Water							
Batch R5282061								
WG3439857-2 LCS								
Ammonia, Total (as N)			93.3		%		85-115	06-NOV-20
WG3439857-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	06-NOV-20
NO2-IC-N-TB	Water							
Batch R5272455								
WG3436325-2 LCS								
Nitrite (as N)			104.3		%		90-110	31-OCT-20
WG3436325-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	31-OCT-20
NO3-IC-N-TB	Water							
Batch R5272455								
WG3436325-2 LCS								
Nitrate (as N)			104.7		%		90-110	31-OCT-20
WG3436325-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	31-OCT-20
P-T-COL-TB	Water							
Batch R5283581								
WG3439876-2 LCS								
Phosphorus (P)-Total			105.4		%		80-120	10-NOV-20
WG3439876-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	10-NOV-20
PH-TITR-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-TITR-TB	Water							
Batch R5272448								
WG3435969-2 LCS								
pH			6.97		pH		6.9-7.1	31-OCT-20
PO4-DO-COL-TB	Water							
Batch R5275979								
WG3435998-2 LCS								
Orthophosphate-Dissolved (as P)			104.7		%		80-120	31-OCT-20
WG3435998-1 MB								
Orthophosphate-Dissolved (as P)			0.0034	MB-LOR	mg/L		0.003	31-OCT-20
SO4-IC-N-TB	Water							
Batch R5272455								
WG3436325-2 LCS								
Sulfate (SO4)			107.8		%		90-110	31-OCT-20
WG3436325-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	31-OCT-20
TDS-TB	Water							
Batch R5272234								
WG3435497-2 LCS								
Total Dissolved Solids			98.4		%		85-115	30-OCT-20
WG3435497-1 MB								
Total Dissolved Solids			<10		mg/L		10	30-OCT-20
TSS-TB	Water							
Batch R5272206								
WG3435499-2 LCS								
Total Suspended Solids			92.7		%		85-115	30-OCT-20
WG3435499-1 MB								
Total Suspended Solids			<3.0		mg/L		3	30-OCT-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
LCS-L	Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	24-OCT-20 15:30	30-OCT-20 15:00	4	6	days	EHTR

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2523011 were received on 28-OCT-20 16:42.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2523011-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ ☐ NO
	Copy of Invoice with Report ☐ ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☑ ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shaun@firstmininggold.com / shila@firstmininggold.
Email 3	john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Project Information	
ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test - Groundwater
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2523011

ALS Contact: | Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	F, NO2,NO3, pH, SO4, PO4	TDS, TSS	DOC	Total Ammonia, Total Phosphorus	Total Metals	Dissolved Metals, Hardness	Dissolved Mercury	Dissolved CR6	Dissolved Inorgainc Carbon (DIC)	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
						F/P	P	P	F/P	F/P	F/P						
	3134-AQ-SPW20-001-201024	24-Oct-20	15:30	Groundwater	7	X	X	X	X	X	X	X	X	X			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ ☑ NO

Are samples for human consumption/ use? ☐ ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐

Ice Packs ☑ Ice Cubes ☐ | Custody seal Intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
2.6							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
E. Seek	Oct. 27/20	10:00	KL	Oct 28/20	4:42			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOTE ON FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 03- NOV- 20
Report Date: 07- DEC- 20 10:28 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2524864

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST- SURFACE WATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project



Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2524864-1 3134-AQ_LAKE1-201029 Sampled By: ES on 29-OCT-20 @ 11:28 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	71.3		1.0	uS/cm		03-NOV-20	R5277276
Hardness (as CaCO3)	32.8		0.50	mg/L		10-NOV-20	
pH	7.25		0.10	pH		03-NOV-20	R5277276
Total Suspended Solids	<3.0		3.0	mg/L		04-NOV-20	R5280216
Total Dissolved Solids	46		13	mg/L		04-NOV-20	R5280519
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	32.0		2.0	mg/L		03-NOV-20	R5277276
Ammonia, Total (as N)	0.544		0.010	mg/L	08-NOV-20	10-NOV-20	R5283798
Bromide (Br)	<0.10		0.10	mg/L	03-NOV-20	05-NOV-20	R5281470
Chloride (Cl)	0.38		0.10	mg/L	03-NOV-20	05-NOV-20	R5281470
Fluoride (F)	0.030		0.020	mg/L	03-NOV-20	05-NOV-20	R5281470
Nitrate (as N)	0.042		0.020	mg/L	03-NOV-20	05-NOV-20	R5281470
Nitrite (as N)	<0.010		0.010	mg/L	03-NOV-20	05-NOV-20	R5281470
Total Kjeldahl Nitrogen	0.976		0.050	mg/L	08-NOV-20	11-NOV-20	R5284079
Orthophosphate-Dissolved (as P)	0.0082		0.0030	mg/L	03-NOV-20	05-NOV-20	R5281804
Phosphorus (P)-Total	0.0096		0.0030	mg/L	12-NOV-20	13-NOV-20	R5285599
Sulfate (SO4)	2.91		0.30	mg/L	03-NOV-20	05-NOV-20	R5281470
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				29-OCT-20	04-NOV-20	R5279292
Dissolved Organic Carbon	7.80		0.50	mg/L	29-OCT-20	06-NOV-20	R5282629
Total Organic Carbon	7.63		0.50	mg/L		09-NOV-20	R5283132
Total Metals							
Aluminum (Al)-Total	0.0080		0.0030	mg/L	07-NOV-20	08-NOV-20	R5283501
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Arsenic (As)-Total	0.00059		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Barium (Ba)-Total	0.00832		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Boron (B)-Total	<0.010		0.010	mg/L	07-NOV-20	08-NOV-20	R5283501
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Calcium (Ca)-Total	10.6		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Chromium (Cr)-Total	0.00017		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Copper (Cu)-Total	0.00070		0.00050	mg/L	07-NOV-20	08-NOV-20	R5283501
Iron (Fe)-Total	0.052		0.010	mg/L	07-NOV-20	08-NOV-20	R5283501
Lead (Pb)-Total	<0.000050		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Lithium (Li)-Total	0.0010		0.0010	mg/L	07-NOV-20	08-NOV-20	R5283501
Magnesium (Mg)-Total	1.60		0.0050	mg/L	07-NOV-20	08-NOV-20	R5283501
Manganese (Mn)-Total	0.0110		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		05-NOV-20	R5280879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2524864-1 3134-AQ_LAKE1-201029 Sampled By: ES on 29-OCT-20 @ 11:28 Matrix: Surface Water							
Total Metals							
Molybdenum (Mo)-Total	0.000116		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	07-NOV-20	08-NOV-20	R5283501
Phosphorus (P)-Total	<0.050		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501
Potassium (K)-Total	0.688		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501
Rubidium (Rb)-Total	0.00169		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501
Selenium (Se)-Total	0.000116		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Silicon (Si)-Total	1.32		0.10	mg/L	07-NOV-20	08-NOV-20	R5283501
Silver (Ag)-Total	<0.000010		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Sodium (Na)-Total	0.764		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501
Strontium (Sr)-Total	0.0275		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501
Sulfur (S)-Total	<0.50		0.50	mg/L	07-NOV-20	08-NOV-20	R5283501
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501
Thallium (Tl)-Total	0.000010		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Thorium (Th)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Tin (Sn)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Titanium (Ti)-Total	0.00050		0.00030	mg/L	07-NOV-20	08-NOV-20	R5283501
Tungsten (W)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Uranium (U)-Total	0.000015		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Vanadium (V)-Total	<0.00050		0.00050	mg/L	07-NOV-20	08-NOV-20	R5283501
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	07-NOV-20	08-NOV-20	R5283501
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					05-NOV-20	R5279697
Dissolved Metals Filtration Location	FIELD					08-NOV-20	R5283347
Aluminum (Al)-Dissolved	0.0021		0.0010	mg/L	08-NOV-20	08-NOV-20	R5283546
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Arsenic (As)-Dissolved	0.00052		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Barium (Ba)-Dissolved	0.00786		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Boron (B)-Dissolved	<0.010		0.010	mg/L	08-NOV-20	08-NOV-20	R5283546
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Calcium (Ca)-Dissolved	10.6		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Chromium (Cr)-Dissolved	0.00014		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Copper (Cu)-Dissolved	0.00064		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Iron (Fe)-Dissolved	0.019		0.010	mg/L	08-NOV-20	08-NOV-20	R5283546
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	08-NOV-20	08-NOV-20	R5283546
Magnesium (Mg)-Dissolved	1.57		0.0050	mg/L	08-NOV-20	08-NOV-20	R5283546

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2524864-1 3134-AQ_LAKE1-201029 Sampled By: ES on 29-OCT-20 @ 11:28 Matrix: Surface Water							
Dissolved Metals							
Manganese (Mn)-Dissolved	0.00381		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	05-NOV-20	05-NOV-20	R5280762
Molybdenum (Mo)-Dissolved	0.000108		0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	08-NOV-20	08-NOV-20	R5283546
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Potassium (K)-Dissolved	0.695		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Rubidium (Rb)-Dissolved	0.00167		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Selenium (Se)-Dissolved	0.000096		0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Silicon (Si)-Dissolved	1.31		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Sodium (Na)-Dissolved	0.765		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Strontium (Sr)-Dissolved	0.0288		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	08-NOV-20	08-NOV-20	R5283546
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	08-NOV-20	08-NOV-20	R5283546
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Uranium (U)-Dissolved	0.000010		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	08-NOV-20	08-NOV-20	R5283546
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	08-NOV-20	08-NOV-20	R5283546
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		06-NOV-20	R5282667
Chromium, Hexavalent	<0.50		0.50	ug/L		06-NOV-20	R5282669
Aggregate Organics							
Chemical Oxygen Demand	26		20	mg/L	08-NOV-20	10-NOV-20	R5283568
L2524864-2 3134-AQ_LAKE2-201029 Sampled By: ES on 29-OCT-20 @ 11:38 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	67.1		1.0	uS/cm		03-NOV-20	R5277276
Hardness (as CaCO3)	32.1		0.50	mg/L		10-NOV-20	
pH	7.28		0.10	pH		03-NOV-20	R5277276
Total Suspended Solids	<3.0		3.0	mg/L		04-NOV-20	R5280216
Total Dissolved Solids	51		13	mg/L		04-NOV-20	R5280519
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	31.7		2.0	mg/L		03-NOV-20	R5277276
Ammonia, Total (as N)	0.120		0.0050	mg/L	08-NOV-20	09-NOV-20	R5283424
Bromide (Br)	<0.10		0.10	mg/L	06-NOV-20	06-NOV-20	R5282246

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2524864-2 3134-AQ_LAKE2-201029 Sampled By: ES on 29-OCT-20 @ 11:38 Matrix: Surface Water							
Anions and Nutrients							
Chloride (Cl)	0.25		0.10	mg/L	06-NOV-20	06-NOV-20	R5282246
Fluoride (F)	0.032		0.020	mg/L	06-NOV-20	06-NOV-20	R5282246
Nitrate (as N)	0.026		0.020	mg/L	06-NOV-20	06-NOV-20	R5282246
Nitrite (as N)	<0.010		0.010	mg/L	06-NOV-20	06-NOV-20	R5282246
Total Kjeldahl Nitrogen	0.416		0.050	mg/L	08-NOV-20	11-NOV-20	R5284079
Orthophosphate-Dissolved (as P)	0.0038		0.0030	mg/L	03-NOV-20	05-NOV-20	R5281804
Phosphorus (P)-Total	0.0100		0.0030	mg/L	12-NOV-20	13-NOV-20	R5285599
Sulfate (SO4)	1.91		0.30	mg/L	06-NOV-20	06-NOV-20	R5282246
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				29-OCT-20	04-NOV-20	R5279292
Dissolved Organic Carbon	8.11		0.50	mg/L	29-OCT-20	06-NOV-20	R5282629
Total Organic Carbon	8.18		0.50	mg/L		09-NOV-20	R5283132
Total Metals							
Aluminum (Al)-Total	0.0083		0.0030	mg/L	07-NOV-20	08-NOV-20	R5283501
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Arsenic (As)-Total	0.00060		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Barium (Ba)-Total	0.00804		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Boron (B)-Total	<0.010		0.010	mg/L	07-NOV-20	08-NOV-20	R5283501
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Calcium (Ca)-Total	10.4		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Chromium (Cr)-Total	0.00018		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Copper (Cu)-Total	0.00072		0.00050	mg/L	07-NOV-20	08-NOV-20	R5283501
Iron (Fe)-Total	0.054		0.010	mg/L	07-NOV-20	08-NOV-20	R5283501
Lead (Pb)-Total	<0.000050		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Lithium (Li)-Total	<0.0010		0.0010	mg/L	07-NOV-20	08-NOV-20	R5283501
Magnesium (Mg)-Total	1.54		0.0050	mg/L	07-NOV-20	08-NOV-20	R5283501
Manganese (Mn)-Total	0.0105		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		05-NOV-20	R5280879
Molybdenum (Mo)-Total	0.000117		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	07-NOV-20	08-NOV-20	R5283501
Phosphorus (P)-Total	<0.050		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501
Potassium (K)-Total	0.682		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501
Rubidium (Rb)-Total	0.00167		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501
Selenium (Se)-Total	0.000097		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Silicon (Si)-Total	1.33		0.10	mg/L	07-NOV-20	08-NOV-20	R5283501
Silver (Ag)-Total	<0.000010		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Sodium (Na)-Total	0.755		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2524864-2 3134-AQ_LAKE2-201029 Sampled By: ES on 29-OCT-20 @ 11:38 Matrix: Surface Water							
Total Metals							
Strontium (Sr)-Total	0.0266		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501
Sulfur (S)-Total	0.69		0.50	mg/L	07-NOV-20	08-NOV-20	R5283501
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Thorium (Th)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Tin (Sn)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Titanium (Ti)-Total	<0.00051		0.00051	mg/L	07-NOV-20	08-NOV-20	R5283501
Tungsten (W)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Uranium (U)-Total	0.000014		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Vanadium (V)-Total	<0.00050		0.00050	mg/L	07-NOV-20	08-NOV-20	R5283501
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	07-NOV-20	08-NOV-20	R5283501
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					06-NOV-20	R5281588
Dissolved Metals Filtration Location	FIELD					08-NOV-20	R5283347
Aluminum (Al)-Dissolved	0.0016		0.0010	mg/L	08-NOV-20	08-NOV-20	R5283546
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Arsenic (As)-Dissolved	0.00051		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Barium (Ba)-Dissolved	0.00757		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Boron (B)-Dissolved	<0.010		0.010	mg/L	08-NOV-20	08-NOV-20	R5283546
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Calcium (Ca)-Dissolved	10.4		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Copper (Cu)-Dissolved	0.00063		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Iron (Fe)-Dissolved	0.017		0.010	mg/L	08-NOV-20	08-NOV-20	R5283546
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	08-NOV-20	08-NOV-20	R5283546
Magnesium (Mg)-Dissolved	1.48		0.0050	mg/L	08-NOV-20	08-NOV-20	R5283546
Manganese (Mn)-Dissolved	0.00339		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	06-NOV-20	06-NOV-20	R5281794
Molybdenum (Mo)-Dissolved	0.000124		0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	08-NOV-20	08-NOV-20	R5283546
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Potassium (K)-Dissolved	0.688		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Rubidium (Rb)-Dissolved	0.00171		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Selenium (Se)-Dissolved	0.000084		0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Silicon (Si)-Dissolved	1.27		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2524864-2 3134-AQ_LAKE2-201029 Sampled By: ES on 29-OCT-20 @ 11:38 Matrix: Surface Water							
Dissolved Metals							
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Sodium (Na)-Dissolved	0.720		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Strontium (Sr)-Dissolved	0.0256		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	08-NOV-20	08-NOV-20	R5283546
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	08-NOV-20	08-NOV-20	R5283546
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Uranium (U)-Dissolved	0.000010		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	08-NOV-20	08-NOV-20	R5283546
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	08-NOV-20	08-NOV-20	R5283546
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		06-NOV-20	R5282667
Chromium, Hexavalent	<0.50		0.50	ug/L		06-NOV-20	R5282669
Aggregate Organics							
Chemical Oxygen Demand	26		20	mg/L	08-NOV-20	10-NOV-20	R5283568
L2524864-3 3134-AQ-SPW20-001-201029 Sampled By: ES on 29-OCT-20 @ 11:00 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	917		1.0	uS/cm		03-NOV-20	R5277276
Hardness (as CaCO3)	455		0.50	mg/L		10-NOV-20	
pH	7.40		0.10	pH		03-NOV-20	R5277276
Total Suspended Solids	<3.0		3.0	mg/L		04-NOV-20	R5280216
Total Dissolved Solids	682		20	mg/L		04-NOV-20	R5280519
Anions and Nutrients							
Acidity (as CaCO3)	2.0		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	240		2.0	mg/L		03-NOV-20	R5277276
Ammonia, Total (as N)	0.397		0.0050	mg/L	08-NOV-20	10-NOV-20	R5283798
Bromide (Br)	0.65		0.10	mg/L	03-NOV-20	05-NOV-20	R5281470
Chloride (Cl)	33.4		0.10	mg/L	03-NOV-20	05-NOV-20	R5281470
Fluoride (F)	0.183		0.020	mg/L	03-NOV-20	05-NOV-20	R5281470
Nitrate (as N)	<0.020		0.020	mg/L	03-NOV-20	05-NOV-20	R5281470
Nitrite (as N)	<0.010		0.010	mg/L	03-NOV-20	05-NOV-20	R5281470
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	03-NOV-20	05-NOV-20	R5281804
Phosphorus (P)-Total	<0.0030		0.0030	mg/L	12-NOV-20	13-NOV-20	R5285599
Sulfate (SO4)	256		0.30	mg/L	03-NOV-20	05-NOV-20	R5281470
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				29-OCT-20	04-NOV-20	R5279292

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2524864-3 3134-AQ-SPW20-001-201029 Sampled By: ES on 29-OCT-20 @ 11:00 Matrix: Groundwater							
Organic / Inorganic Carbon							
Dissolved Organic Carbon	7.46		0.50	mg/L	29-OCT-20	06-NOV-20	R5282629
Total Metals							
Aluminum (Al)-Total	0.0115		0.0030	mg/L	07-NOV-20	08-NOV-20	R5283501
Antimony (Sb)-Total	0.00037		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Arsenic (As)-Total	0.00460		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Barium (Ba)-Total	0.0904		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Beryllium (Be)-Total	0.00012		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Boron (B)-Total	0.029		0.010	mg/L	07-NOV-20	08-NOV-20	R5283501
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Calcium (Ca)-Total	154		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501
Cesium (Cs)-Total	0.000414		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Chromium (Cr)-Total	0.00038		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Cobalt (Co)-Total	0.00021		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Copper (Cu)-Total	<0.00050		0.00050	mg/L	07-NOV-20	08-NOV-20	R5283501
Iron (Fe)-Total	1.41		0.010	mg/L	07-NOV-20	08-NOV-20	R5283501
Lead (Pb)-Total	0.000226		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Lithium (Li)-Total	0.0034		0.0010	mg/L	07-NOV-20	08-NOV-20	R5283501
Magnesium (Mg)-Total	17.3		0.0050	mg/L	07-NOV-20	08-NOV-20	R5283501
Manganese (Mn)-Total	0.517		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Molybdenum (Mo)-Total	0.00237		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Nickel (Ni)-Total	0.00157		0.00050	mg/L	07-NOV-20	08-NOV-20	R5283501
Phosphorus (P)-Total	<0.050		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501
Potassium (K)-Total	2.18		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501
Rubidium (Rb)-Total	0.00287		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501
Selenium (Se)-Total	0.000061		0.000050	mg/L	07-NOV-20	08-NOV-20	R5283501
Silicon (Si)-Total	6.90		0.10	mg/L	07-NOV-20	08-NOV-20	R5283501
Silver (Ag)-Total	<0.000010		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Sodium (Na)-Total	19.4		0.050	mg/L	07-NOV-20	08-NOV-20	R5283501
Strontium (Sr)-Total	3.80		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501
Sulfur (S)-Total	92.7		0.50	mg/L	07-NOV-20	08-NOV-20	R5283501
Tellurium (Te)-Total	0.00020		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Thorium (Th)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Tin (Sn)-Total	<0.00010		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Titanium (Ti)-Total	<0.00051	DLM	0.00051	mg/L	07-NOV-20	08-NOV-20	R5283501
Tungsten (W)-Total	0.00563		0.00010	mg/L	07-NOV-20	08-NOV-20	R5283501
Uranium (U)-Total	0.000468		0.000010	mg/L	07-NOV-20	08-NOV-20	R5283501
Vanadium (V)-Total	0.00149		0.00050	mg/L	07-NOV-20	08-NOV-20	R5283501
Zinc (Zn)-Total	0.0214		0.0030	mg/L	07-NOV-20	08-NOV-20	R5283501
Zirconium (Zr)-Total	0.00343		0.00020	mg/L	07-NOV-20	08-NOV-20	R5283501

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2524864-3 3134-AQ-SPW20-001-201029 Sampled By: ES on 29-OCT-20 @ 11:00 Matrix: Groundwater							
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					06-NOV-20	R5281588
Dissolved Metals Filtration Location	FIELD					08-NOV-20	R5283347
Aluminum (Al)-Dissolved	0.0093		0.0010	mg/L	08-NOV-20	08-NOV-20	R5283546
Antimony (Sb)-Dissolved	0.00037		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Arsenic (As)-Dissolved	0.00445		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Barium (Ba)-Dissolved	0.0940		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Beryllium (Be)-Dissolved	0.00014		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Boron (B)-Dissolved	0.025		0.010	mg/L	08-NOV-20	08-NOV-20	R5283546
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Calcium (Ca)-Dissolved	154		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Cesium (Cs)-Dissolved	0.000416		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Chromium (Cr)-Dissolved	0.00040		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Cobalt (Co)-Dissolved	0.00021		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Iron (Fe)-Dissolved	1.39		0.010	mg/L	08-NOV-20	08-NOV-20	R5283546
Lead (Pb)-Dissolved	0.000188		0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Lithium (Li)-Dissolved	0.0028		0.0010	mg/L	08-NOV-20	08-NOV-20	R5283546
Magnesium (Mg)-Dissolved	17.1		0.0050	mg/L	08-NOV-20	08-NOV-20	R5283546
Manganese (Mn)-Dissolved	0.506		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	06-NOV-20	06-NOV-20	R5281794
Molybdenum (Mo)-Dissolved	0.00238		0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Nickel (Ni)-Dissolved	0.00136		0.00050	mg/L	08-NOV-20	08-NOV-20	R5283546
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Potassium (K)-Dissolved	2.15		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Rubidium (Rb)-Dissolved	0.00289		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Selenium (Se)-Dissolved	0.000177	DTSE	0.000050	mg/L	08-NOV-20	08-NOV-20	R5283546
Silicon (Si)-Dissolved	6.72		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Sodium (Na)-Dissolved	19.2		0.050	mg/L	08-NOV-20	08-NOV-20	R5283546
Strontium (Sr)-Dissolved	3.77		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Sulfur (S)-Dissolved	88.0		0.50	mg/L	08-NOV-20	08-NOV-20	R5283546
Tellurium (Te)-Dissolved	0.00021		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Titanium (Ti)-Dissolved	0.00044		0.00030	mg/L	08-NOV-20	08-NOV-20	R5283546
Tungsten (W)-Dissolved	0.00541		0.00010	mg/L	08-NOV-20	08-NOV-20	R5283546
Uranium (U)-Dissolved	0.000441		0.000010	mg/L	08-NOV-20	08-NOV-20	R5283546
Vanadium (V)-Dissolved	0.00139		0.00050	mg/L	08-NOV-20	08-NOV-20	R5283546
Zinc (Zn)-Dissolved	0.0211		0.0010	mg/L	08-NOV-20	08-NOV-20	R5283546

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2524864-3 3134-AQ-SPW20-001-201029 Sampled By: ES on 29-OCT-20 @ 11:00 Matrix: Groundwater							
Dissolved Metals							
Zirconium (Zr)-Dissolved	0.00332		0.00020	mg/L	08-NOV-20	08-NOV-20	R5283546
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		06-NOV-20	R5282667
L2524864-4 3134-AQ-SPW20-001-201027 Sampled By: ES on 27-OCT-20 @ 10:35 Matrix: Groundwater-Chloride							
Anions and Nutrients							
Chloride (Cl)	26.1	RRR	0.10	mg/L	11-NOV-20	14-NOV-20	R5285959
Report Remarks : Laboratory Control Sample for anions just outside DQO. All other quality controls within DQO.							
L2524864-5 3134-AQ-SPW20-001-201028 Sampled By: ES on 28-OCT-20 @ 11:00 Matrix: Groundwater-Chloride							
Anions and Nutrients							
Chloride (Cl)	31.6	RRR	0.20	mg/L	11-NOV-20	14-NOV-20	R5285959
Report Remarks : Laboratory Control Sample for anions just outside DQO. All other quality controls within DQO.							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Laboratory Control Sample	Chloride (Cl)	LCS-H	L2524864-4, -5
Laboratory Control Sample	Iron (Fe)-Total	MES	L2524864-1, -2, -3
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2524864-1, -2, -3
Matrix Spike	Phosphorus (P)-Total	MS-B	L2524864-1, -2
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L2524864-1, -2

Sample Parameter Qualifier key listed:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTSE	Dissolved Se concentration exceeds total. Positive bias on D-Se suspected due to signal enhancement from volatile selenium species. Contact ALS if an alternative test to address this interference is needed.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRR	Refer to Report Remarks for issues regarding this analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-PWQO-IC-WT	Water	Chromium +6	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Reference Information

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-T-CVAA-WT	Water	Total Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

TOC-WT	Water	Total Organic Carbon	APHA 5310B

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic cabon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Reference Information

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5282559								
WG3439545-3 DUP		**L2524864-3**						
Acidity (as CaCO3)		2.0	2.4		mg/L	15	20	08-NOV-20
WG3439545-2 LCS								
Acidity (as CaCO3)			101.4		%		85-115	08-NOV-20
WG3439545-1 MB								
Acidity (as CaCO3)			2.0		mg/L		4	08-NOV-20
ALK-TITR-TB	Water							
Batch R5277276								
WG3438010-2 LCS								
Alkalinity, Total (as CaCO3)			104.2		%		85-115	03-NOV-20
WG3438010-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	03-NOV-20
BR-IC-N-TB	Water							
Batch R5281470								
WG3438039-2 LCS								
Bromide (Br)			107.4		%		85-115	05-NOV-20
WG3438039-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	05-NOV-20
Batch R5282246								
WG3440444-2 LCS								
Bromide (Br)			103.6		%		85-115	06-NOV-20
WG3440444-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	06-NOV-20
WG3440444-4 MS		**L2524864-2**						
Bromide (Br)			108.3		%		75-125	06-NOV-20
CL-L-IC-N-TB	Water							
Batch R5281470								
WG3438039-2 LCS								
Chloride (Cl)			105.3		%		90-110	05-NOV-20
WG3438039-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	05-NOV-20
Batch R5282246								
WG3440444-2 LCS								
Chloride (Cl)			97.0		%		90-110	06-NOV-20
WG3440444-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	06-NOV-20
WG3440444-4 MS		**L2524864-2**						
Chloride (Cl)			104.2		%		75-125	06-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB	Water							
Batch R5285959								
WG3443131-2 LCS								
Chloride (Cl)			112.6	LCS-H	%		90-110	14-NOV-20
WG3443131-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	14-NOV-20
COD-TB	Water							
Batch R5283568								
WG3441232-3 DUP		**L2524864-2**						
Chemical Oxygen Demand		26	28		mg/L	6.5	20	10-NOV-20
WG3441232-2 LCS								
Chemical Oxygen Demand			106.4		%		85-115	10-NOV-20
WG3441232-1 MB								
Chemical Oxygen Demand			<20		mg/L		20	10-NOV-20
WG3441232-4 MS		**L2524864-1**						
Chemical Oxygen Demand			101.4		%		75-125	10-NOV-20
CR-CR6-DIS-WT	Water							
Batch R5282667								
WG3440824-2 LCS								
Chromium (VI)-Dissolved			101.4		%		70-130	06-NOV-20
WG3440824-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	06-NOV-20
CR-CR6-PWQO-IC-WT	Water							
Batch R5282669								
WG3440827-2 LCS								
Chromium, Hexavalent			102.4		%		80-120	06-NOV-20
WG3440827-1 MB								
Chromium, Hexavalent			<0.50		ug/L		0.5	06-NOV-20
DOC-WT	Water							
Batch R5282629								
WG3439161-2 LCS								
Dissolved Organic Carbon			102.6		%		80-120	06-NOV-20
WG3439161-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	06-NOV-20
EC-TITR-TB	Water							
Batch R5277276								
WG3438010-2 LCS								
Conductivity (EC)			104.0		%		90-110	03-NOV-20
WG3438010-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-TITR-TB	Water							
Batch R5277276								
WG3438010-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	03-NOV-20
F-IC-N-TB	Water							
Batch R5281470								
WG3438039-2 LCS								
Fluoride (F)			101.4		%		90-110	05-NOV-20
WG3438039-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	05-NOV-20
Batch R5282246								
WG3440444-2 LCS								
Fluoride (F)			106.3		%		90-110	06-NOV-20
WG3440444-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	06-NOV-20
WG3440444-4 MS		**L2524864-2**						
Fluoride (F)			113.4		%		75-125	06-NOV-20
HG-D-CVAA-WT	Water							
Batch R5280762								
WG3439379-2 LCS								
Mercury (Hg)-Dissolved			105.0		%		80-120	05-NOV-20
WG3439379-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	05-NOV-20
Batch R5281794								
WG3440561-2 LCS								
Mercury (Hg)-Dissolved			108.0		%		80-120	06-NOV-20
WG3440561-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	06-NOV-20
HG-T-CVAA-WT	Water							
Batch R5280879								
WG3439369-2 LCS								
Mercury (Hg)-Total			99.0		%		80-120	05-NOV-20
WG3439369-1 MB								
Mercury (Hg)-Total			<0.000005(		mg/L		0.000005	05-NOV-20
MET-D-CCMS-TB	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5283546								
WG3441453-10 LCS								
Aluminum (Al)-Dissolved			102.2		%		80-120	08-NOV-20
Antimony (Sb)-Dissolved			101.3		%		80-120	08-NOV-20
Arsenic (As)-Dissolved			105.5		%		80-120	08-NOV-20
Barium (Ba)-Dissolved			103.3		%		80-120	08-NOV-20
Beryllium (Be)-Dissolved			99.5		%		80-120	08-NOV-20
Bismuth (Bi)-Dissolved			100.1		%		80-120	08-NOV-20
Boron (B)-Dissolved			90.8		%		80-120	08-NOV-20
Cadmium (Cd)-Dissolved			100.8		%		80-120	08-NOV-20
Calcium (Ca)-Dissolved			98.7		%		80-120	08-NOV-20
Cesium (Cs)-Dissolved			104.2		%		80-120	08-NOV-20
Chromium (Cr)-Dissolved			102.4		%		80-120	08-NOV-20
Cobalt (Co)-Dissolved			103.4		%		80-120	08-NOV-20
Copper (Cu)-Dissolved			100.2		%		80-120	08-NOV-20
Iron (Fe)-Dissolved			119.5		%		80-120	08-NOV-20
Lead (Pb)-Dissolved			101.0		%		80-120	08-NOV-20
Lithium (Li)-Dissolved			100.2		%		80-120	08-NOV-20
Magnesium (Mg)-Dissolved			101.7		%		80-120	08-NOV-20
Manganese (Mn)-Dissolved			101.4		%		80-120	08-NOV-20
Molybdenum (Mo)-Dissolved			100.7		%		80-120	08-NOV-20
Nickel (Ni)-Dissolved			99.4		%		80-120	08-NOV-20
Phosphorus (P)-Dissolved			107.5		%		80-120	08-NOV-20
Potassium (K)-Dissolved			104.3		%		80-120	08-NOV-20
Rubidium (Rb)-Dissolved			105.5		%		80-120	08-NOV-20
Selenium (Se)-Dissolved			101.7		%		80-120	08-NOV-20
Silicon (Si)-Dissolved			105.5		%		80-120	08-NOV-20
Silver (Ag)-Dissolved			102.1		%		80-120	08-NOV-20
Sodium (Na)-Dissolved			102.0		%		80-120	08-NOV-20
Strontium (Sr)-Dissolved			104.3		%		80-120	08-NOV-20
Sulfur (S)-Dissolved			100.5		%		80-120	08-NOV-20
Tellurium (Te)-Dissolved			101.4		%		80-120	08-NOV-20
Thallium (Tl)-Dissolved			99.4		%		80-120	08-NOV-20
Thorium (Th)-Dissolved			104.9		%		80-120	08-NOV-20
Tin (Sn)-Dissolved			102.7		%		80-120	08-NOV-20
Titanium (Ti)-Dissolved			97.6		%		80-120	08-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5283546								
WG3441453-10 LCS								
Tungsten (W)-Dissolved			101.2		%		80-120	08-NOV-20
Uranium (U)-Dissolved			101.5		%		80-120	08-NOV-20
Vanadium (V)-Dissolved			101.8		%		80-120	08-NOV-20
Zinc (Zn)-Dissolved			100.8		%		80-120	08-NOV-20
Zirconium (Zr)-Dissolved			105.1		%		80-120	08-NOV-20
WG3441453-9 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	08-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	08-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	08-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	08-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	08-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	08-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	08-NOV-20
Cadmium (Cd)-Dissolved			<0.0000050		mg/L		0.000005	08-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	08-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	08-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	08-NOV-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	08-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	08-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	08-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	08-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	08-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	08-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	08-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	08-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	08-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	08-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	08-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	08-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	08-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	08-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	08-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	08-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	08-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5283546								
WG3441453-9 MB								
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	08-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	08-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	08-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	08-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	08-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	08-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	08-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	08-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	08-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	08-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	08-NOV-20
MET-T-CCMS-TB	Water							
Batch R5283501								
WG3441213-2 LCS								
Aluminum (Al)-Total			106.0		%		80-120	08-NOV-20
Antimony (Sb)-Total			110.0		%		80-120	08-NOV-20
Arsenic (As)-Total			107.9		%		80-120	08-NOV-20
Barium (Ba)-Total			100.5		%		80-120	08-NOV-20
Beryllium (Be)-Total			106.4		%		80-120	08-NOV-20
Bismuth (Bi)-Total			100.9		%		80-120	08-NOV-20
Boron (B)-Total			96.1		%		80-120	08-NOV-20
Cadmium (Cd)-Total			103.3		%		80-120	08-NOV-20
Calcium (Ca)-Total			102.7		%		80-120	08-NOV-20
Cesium (Cs)-Total			110.2		%		80-120	08-NOV-20
Chromium (Cr)-Total			104.3		%		80-120	08-NOV-20
Cobalt (Co)-Total			105.4		%		80-120	08-NOV-20
Copper (Cu)-Total			103.8		%		80-120	08-NOV-20
Iron (Fe)-Total			123.5	MES	%		80-120	08-NOV-20
Lead (Pb)-Total			102.7		%		80-120	08-NOV-20
Lithium (Li)-Total			107.0		%		80-120	08-NOV-20
Magnesium (Mg)-Total			104.2		%		80-120	08-NOV-20
Manganese (Mn)-Total			104.8		%		80-120	08-NOV-20
Molybdenum (Mo)-Total			105.1		%		80-120	08-NOV-20
Nickel (Ni)-Total			102.3		%		80-120	08-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5283501								
WG3441213-2 LCS								
Phosphorus (P)-Total			110.8		%		80-120	08-NOV-20
Potassium (K)-Total			109.0		%		80-120	08-NOV-20
Rubidium (Rb)-Total			105.3		%		80-120	08-NOV-20
Selenium (Se)-Total			104.1		%		80-120	08-NOV-20
Silicon (Si)-Total			109.8		%		80-120	08-NOV-20
Silver (Ag)-Total			106.4		%		80-120	08-NOV-20
Sodium (Na)-Total			105.2		%		80-120	08-NOV-20
Strontium (Sr)-Total			105.7		%		80-120	08-NOV-20
Sulfur (S)-Total			92.2		%		80-120	08-NOV-20
Tellurium (Te)-Total			107.7		%		80-120	08-NOV-20
Thallium (Tl)-Total			101.6		%		80-120	08-NOV-20
Thorium (Th)-Total			106.3		%		80-120	08-NOV-20
Tin (Sn)-Total			104.8		%		80-120	08-NOV-20
Titanium (Ti)-Total			102.8		%		80-120	08-NOV-20
Tungsten (W)-Total			105.5		%		80-120	08-NOV-20
Uranium (U)-Total			106.5		%		80-120	08-NOV-20
Vanadium (V)-Total			103.7		%		80-120	08-NOV-20
Zinc (Zn)-Total			103.0		%		80-120	08-NOV-20
Zirconium (Zr)-Total			109.4		%		80-120	08-NOV-20
WG3441213-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	08-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	08-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	08-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	08-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	08-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	08-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	08-NOV-20
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	08-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	08-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	08-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	08-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	08-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	08-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	08-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5283501								
WG3441213-1 MB								
Lead (Pb)-Total			<0.000050		mg/L		0.00005	08-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	08-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	08-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	08-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	08-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	08-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	08-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	08-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	08-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	08-NOV-20
Silicon (Si)-Total			<0.10		mg/L		0.1	08-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	08-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	08-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	08-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	08-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	08-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	08-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	08-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	08-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	08-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	08-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	08-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	08-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	08-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	08-NOV-20
NH3-F-TB	Water							
Batch R5283424								
WG3441222-2 LCS								
Ammonia, Total (as N)			101.0		%		85-115	09-NOV-20
WG3441222-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	09-NOV-20
Batch R5283798								
WG3441377-2 LCS								
Ammonia, Total (as N)			87.0		%		85-115	10-NOV-20
WG3441377-1 MB								

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-F-TB	Water							
Batch R5283798								
WG3441377-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	10-NOV-20
NO2-IC-N-TB	Water							
Batch R5281470								
WG3438039-2 LCS								
Nitrite (as N)			106.2		%		90-110	05-NOV-20
WG3438039-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	05-NOV-20
Batch R5282246								
WG3440444-2 LCS								
Nitrite (as N)			105.7		%		90-110	06-NOV-20
WG3440444-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	06-NOV-20
WG3440444-4 MS		**L2524864-2**						
Nitrite (as N)			115.0		%		75-125	06-NOV-20
NO3-IC-N-TB	Water							
Batch R5281470								
WG3438039-2 LCS								
Nitrate (as N)			108.0		%		90-110	05-NOV-20
WG3438039-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	05-NOV-20
Batch R5282246								
WG3440444-2 LCS								
Nitrate (as N)			99.4		%		90-110	06-NOV-20
WG3440444-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	06-NOV-20
WG3440444-4 MS		**L2524864-2**						
Nitrate (as N)			110.8		%		75-125	06-NOV-20
P-T-COL-TB	Water							
Batch R5285599								
WG3441229-2 LCS								
Phosphorus (P)-Total			103.3		%		80-120	13-NOV-20
WG3441380-2 LCS								
Phosphorus (P)-Total			102.5		%		80-120	13-NOV-20
WG3441229-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	13-NOV-20
WG3441380-1 MB								

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-T-COL-TB	Water							
Batch R5285599								
WG3441380-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	13-NOV-20
PH-TITR-TB	Water							
Batch R5277276								
WG3438010-2 LCS								
pH			7.00		pH		6.9-7.1	03-NOV-20
PO4-DO-COL-TB	Water							
Batch R5281804								
WG3438037-3 DUP		**L2524864-1**						
Orthophosphate-Dissolved (as P)		0.0082	0.0036	J	mg/L	0.0046	0.006	05-NOV-20
WG3438037-2 LCS								
Orthophosphate-Dissolved (as P)			103.6		%		80-120	05-NOV-20
WG3438037-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	05-NOV-20
WG3438037-4 MS		**L2524864-3**						
Orthophosphate-Dissolved (as P)			90.2		%		70-130	05-NOV-20
SO4-IC-N-TB	Water							
Batch R5281470								
WG3438039-2 LCS								
Sulfate (SO4)			107.9		%		90-110	05-NOV-20
WG3438039-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	05-NOV-20
Batch R5282246								
WG3440444-2 LCS								
Sulfate (SO4)			99.3		%		90-110	06-NOV-20
WG3440444-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	06-NOV-20
WG3440444-4 MS		**L2524864-2**						
Sulfate (SO4)			109.1		%		75-125	06-NOV-20
TDS-TB	Water							
Batch R5280519								
WG3438803-3 DUP		**L2524864-3**						
Total Dissolved Solids		682	686		mg/L	0.6	20	04-NOV-20
WG3438803-2 LCS								
Total Dissolved Solids			98.3		%		85-115	04-NOV-20
WG3438803-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-TB	Water							
Batch R5280519								
WG3438803-1 MB								
Total Dissolved Solids			<10		mg/L		10	04-NOV-20
TKN-F-TB	Water							
Batch R5284079								
WG3441225-2 LCS								
Total Kjeldahl Nitrogen			111.3		%		75-125	11-NOV-20
WG3441225-1 MB								
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	11-NOV-20
TOC-WT	Water							
Batch R5283132								
WG3440300-2 LCS								
Total Organic Carbon			101.8		%		80-120	09-NOV-20
WG3440300-1 MB								
Total Organic Carbon			<0.50		mg/L		0.5	09-NOV-20
TSS-TB	Water							
Batch R5280216								
WG3438797-3 DUP		**L2524864-3**						
Total Suspended Solids		<3.0	<3.0	RPD-NA	mg/L	N/A	20	04-NOV-20
WG3438797-2 LCS								
Total Suspended Solids			88.7		%		85-115	04-NOV-20
WG3438797-1 MB								
Total Suspended Solids			<3.0		mg/L		3	04-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	29-OCT-20 11:28	03-NOV-20 15:00	4	5	days	EHTR
	2	29-OCT-20 11:38	03-NOV-20 15:00	4	5	days	EHTR
	3	29-OCT-20 11:00	03-NOV-20 15:00	4	5	days	EHTR
Leachable Anions & Nutrients							
Nitrate in Water by IC							
	2	29-OCT-20 11:38	06-NOV-20 10:30	7	8	days	EHT
Nitrite in Water by IC							
	2	29-OCT-20 11:38	06-NOV-20 10:30	7	8	days	EHT

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2524864 were received on 03-NOV-20 09:45.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2524864-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shaun@firstmininggold.com / shila@firstmininggold
Email 3	john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Project Information	
ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test - Surface Water
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2524864

ALS Contact: | Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day (E - 100%) ☐ | Same Day, Weekend or Statutory holiday (E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	F, NO2,NO3, pH, SO4, PO4	TDS, TSS	DOC, COD	TOC, Total Ammonia, Total Phosphorus, TKN	Total Metals	Dissolved Metals, Hardness	Total Mercury	Dissolved Mercury	Total CR6	Dissolved CR6	Dissolved Inorganic Carbon (DIC)	Total Methyl Mercury		SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
						F/P	P	P	F/P	P	F/P	P	F/P	P	F/P		P				
	3134-AQ-Lake1-201029	29-Oct-20	11:28	Surface Water	9	X	X	X	X	X	X	X	X	X	X	X					
	3134-AQ-Lake2-201029	29-Oct-20	11:38	Surface Water	9	X	X	X	X	X	X	X	X	X	X	X					

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	Collect 777-1268274 $35.54
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐

Ice Packs ☒ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
8.5							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: E Seale	Date: Oct 30/20	Time: 10:00	Received by:	Date: NOV 3/20	Time: 9:45	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2015 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2524864-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☑ EXCEL ☐ EDD (DIGITAL)

Quality Control (QC) Report with Report ☐ YES ☐ NO

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1: dmchaina@firstmininggold.com

Email 2: shaun@firstmininggold.com / shila@firstmininggold

Email 3: john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accountspayable@firstmininggold.com

Email 2: dmchaina@firstmininggold.com

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	20864 / Q64154	AFE/Cost Center:	PO#:
Job #:	Springpole Pump Test - Groundwater	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:	First Mining Gold Project	Location:	
ALS Lab Work Order # (lab use only):		ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	F, NO2-NO3, pH, SO4, PO4	TDS, TSS	DOC F/P	Total Ammonia, Total Phosphorus P	Total Metals P	Dissolved Metals, Hardness F/P	Dissolved Mercury F/P	Dissolved CR6 F/P	Dissolved Inorganic Carbon (DIC)	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-AQ-SPW20-001-201029	29-Oct-20	11:00	Groundwater	7	X	X	X	X	X	X	X	X	X			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
8.5	

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: E Sook	Date: Oct 31/20	Time: 10:01	Received by:	Date: NOV 3/20	Time: 9:45	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

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1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2524864-COFC

COC Number: 17 -

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Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report ☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1: dmchaina@firstmininggold.com
Email 2: shaun@firstmininggold.com / shila@firstmininggold
Email 3: john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accountspayable@firstmininggold.com
Email 2: dmchaina@firstmininggold.com

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐
EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	20864 / Q64154	AFE/Cost Center:	PO#:
Job #:	Springpole Pump Test - Chloride	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:	First Mining Gold Project	Location:	
ALS Lab Work Order # (lab use only):		ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Chloride	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-AQ-SPW20-001-201027	27-Oct-20	10:35	Groundwater	1	X		
	3134-AQ-SPW20-001-201028	28-Oct-20	11:00	Groundwater	1	X		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐
Ice Packs ☑ Ice Cubes ☐ | Custody seal Intact Yes ☐ No ☐
Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
8.5	

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: E Seok	Date: Oct. 31/20	Time: 10:00	Received by:	Date: NOV 3/20	Time: 9:45	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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NOV 2016 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 06-NOV-20
Report Date: 08-DEC-20 09:00 (MT)
Version: FINAL

Client Phone: 844-306-8827

Certificate of Analysis

Lab Work Order #: L2526849

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST- GROUNDWATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project

C. Paradis

Christine Paradis
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-1 SP-GW-FBH-01-D Sampled By: Client on 01-NOV-20 @ 11:51 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	407		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	201		0.50	mg/L		13-NOV-20	
pH	7.99		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	1820		7.5	mg/L		07-NOV-20	R5282436
Total Dissolved Solids	333		20	mg/L		07-NOV-20	R5282472
Anions and Nutrients							
Acidity (as CaCO3)	7.2		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	265		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.0430		0.0050	mg/L	12-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L	06-NOV-20	11-NOV-20	R5284544
Chloride (Cl)	0.27		0.10	mg/L	06-NOV-20	11-NOV-20	R5284544
Fluoride (F)	0.052		0.020	mg/L	06-NOV-20	11-NOV-20	R5284544
Nitrate (as N)	<0.020		0.020	mg/L	06-NOV-20	11-NOV-20	R5284544
Nitrite (as N)	<0.010		0.010	mg/L	06-NOV-20	11-NOV-20	R5284544
Phosphorus (P)-Total	1.90		0.30	mg/L	17-NOV-20	17-NOV-20	R5287388
Silica, Reactive (as SiO2)	10.7		5.0	mg/L		12-NOV-20	R5284398
Sulfate (SO4)	3.20		0.30	mg/L	06-NOV-20	11-NOV-20	R5284544
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		12-NOV-20	R5284551
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				01-NOV-20	10-NOV-20	R5283744
Dissolved Organic Carbon	8.54		0.50	mg/L	01-NOV-20	16-NOV-20	R5286668
Total Metals							
Aluminum (Al)-Total	22.9		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	0.00171		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.0174		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.239		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	0.00048		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	<0.010		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	0.000378		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	197		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	0.0114		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.0674		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	0.0204		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.0924		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	34.3		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	0.0218		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.0223		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	24.8		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	2.04		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.000938		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-1 SP-GW-FBH-01-D Sampled By: Client on 01-NOV-20 @ 11:51 Matrix: Groundwater							
Total Metals							
Nickel (Ni)-Total	0.0396		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	1.90		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	8.90		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.0392		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.000612		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	35.8		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	0.00183		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	3.92		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.541		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	0.97		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	0.000358		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	0.00420		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	0.00047		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	1.56		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	0.00610		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.00162		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	0.116		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.0622		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	0.0113		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0123		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Antimony (Sb)-Dissolved	0.00033		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00235		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.0356		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Boron (B)-Dissolved	<0.010		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	0.0000172		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Calcium (Ca)-Dissolved	69.6		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Cesium (Cs)-Dissolved	0.000069		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00022		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cobalt (Co)-Dissolved	0.00024		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00573		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Iron (Fe)-Dissolved	0.052		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Lead (Pb)-Dissolved	0.000115		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	6.54		0.0050	mg/L	12-NOV-20	12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.0684		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-1 SP-GW-FBH-01-D Sampled By: Client on 01-NOV-20 @ 11:51 Matrix: Groundwater							
Dissolved Metals							
Mercury (Hg)-Dissolved	0.0000076		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.000713		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Nickel (Ni)-Dissolved	0.00057		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Potassium (K)-Dissolved	2.04		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00328		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000084		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silicon (Si)-Dissolved	4.86		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Sodium (Na)-Dissolved	2.03		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.189		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Sulfur (S)-Dissolved	0.74		0.50	mg/L	12-NOV-20	12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Titanium (Ti)-Dissolved	0.00036		0.00030	mg/L	12-NOV-20	12-NOV-20	R5284941
Tungsten (W)-Dissolved	0.00151		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Uranium (U)-Dissolved	0.000441		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	0.00115		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
L2526849-2 SP-GW-FBH-11-D Sampled By: Client on 01-NOV-20 @ 14:09 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	618		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	290		0.50	mg/L		13-NOV-20	
pH	7.65		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	1120		7.5	mg/L		07-NOV-20	R5282436
Total Dissolved Solids	392		20	mg/L		07-NOV-20	R5282472
Anions and Nutrients							
Acidity (as CaCO3)	12.5		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	361		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	3.14		0.25	mg/L	12-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L	07-NOV-20	11-NOV-20	R5284544
Chloride (Cl)	0.74		0.10	mg/L	07-NOV-20	11-NOV-20	R5284544
Fluoride (F)	0.120		0.020	mg/L	07-NOV-20	11-NOV-20	R5284544
Nitrate (as N)	<0.020		0.020	mg/L	07-NOV-20	11-NOV-20	R5284544
Nitrite (as N)	<0.010		0.010	mg/L	07-NOV-20	11-NOV-20	R5284544
Phosphorus (P)-Total	2.03		0.075	mg/L	18-NOV-20	19-NOV-20	R5290816
Silica, Reactive (as SiO2)	24.9		5.0	mg/L		12-NOV-20	R5284398

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-2 SP-GW-FBH-11-D Sampled By: Client on 01-NOV-20 @ 14:09 Matrix: Groundwater							
Anions and Nutrients							
Sulfate (SO4)	1.02		0.30	mg/L	07-NOV-20	11-NOV-20	R5284544
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		12-NOV-20	R5284551
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				01-NOV-20	10-NOV-20	R5283744
Dissolved Organic Carbon	22.8	DLM	2.5	mg/L	01-NOV-20	16-NOV-20	R5286668
Total Metals							
Aluminum (Al)-Total	28.5		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	0.00064		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.0121		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.684		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	0.00219		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	0.00134		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	0.031		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	0.000125		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	123		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	0.00800		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.429		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	0.0294		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.204		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	45.0		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	0.0106		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.0533		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	55.4		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	1.37		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.00118		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	0.165		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	1.75		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	6.41		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.0226		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.000212		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	72.6		1.0	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	0.00239		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	9.74		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.622		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	0.54		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	0.000156		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	0.00878		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	0.00055		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	0.112		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	0.00653		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-2 SP-GW-FBH-11-D Sampled By: Client on 01-NOV-20 @ 14:09 Matrix: Groundwater							
Total Metals							
Uranium (U)-Total	0.00504		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	0.0802		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.0796		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	0.00970		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.138		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00161		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.507		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Boron (B)-Dissolved	0.025		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Calcium (Ca)-Dissolved	84.2		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Cesium (Cs)-Dissolved	0.000537		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00209		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cobalt (Co)-Dissolved	0.00033		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00067		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Iron (Fe)-Dissolved	4.47		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Lead (Pb)-Dissolved	0.000096		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Lithium (Li)-Dissolved	0.0095		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	19.3		0.0050	mg/L	12-NOV-20	12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.261		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.000617		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Nickel (Ni)-Dissolved	0.00089		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Phosphorus (P)-Dissolved	0.057		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Potassium (K)-Dissolved	4.49		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00319		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000108		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silicon (Si)-Dissolved	12.6		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Sodium (Na)-Dissolved	8.83		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.474		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	12-NOV-20	12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-2 SP-GW-FBH-11-D Sampled By: Client on 01-NOV-20 @ 14:09 Matrix: Groundwater							
Dissolved Metals							
Titanium (Ti)-Dissolved	0.00326		0.00030	mg/L	12-NOV-20	12-NOV-20	R5284941
Tungsten (W)-Dissolved	0.00132		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Uranium (U)-Dissolved	0.000181		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Vanadium (V)-Dissolved	0.00202		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Zinc (Zn)-Dissolved	0.0019		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	0.00326		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
L2526849-3 SP-GW-FBH-03-D Sampled By: Client on 01-NOV-20 @ 15:15 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	241		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	103		0.50	mg/L		13-NOV-20	
pH	7.98		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	195		3.0	mg/L		07-NOV-20	R5282436
Total Dissolved Solids	157		13	mg/L		07-NOV-20	R5282472
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	119		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.100		0.010	mg/L	12-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L	07-NOV-20	11-NOV-20	R5284544
Chloride (Cl)	1.24		0.10	mg/L	07-NOV-20	11-NOV-20	R5284544
Fluoride (F)	0.110		0.020	mg/L	07-NOV-20	11-NOV-20	R5284544
Nitrate (as N)	<0.020		0.020	mg/L	07-NOV-20	11-NOV-20	R5284544
Nitrite (as N)	<0.010		0.010	mg/L	07-NOV-20	11-NOV-20	R5284544
Phosphorus (P)-Total	<0.30		0.30	mg/L	17-NOV-20	17-NOV-20	R5287388
Silica, Reactive (as SiO2)	12.9		1.0	mg/L		12-NOV-20	R5284398
Sulfate (SO4)	9.88		0.30	mg/L	07-NOV-20	11-NOV-20	R5284544
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		12-NOV-20	R5284551
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				01-NOV-20	10-NOV-20	R5283744
Dissolved Organic Carbon	4.76		0.50	mg/L	01-NOV-20	16-NOV-20	R5286668
Total Metals							
Aluminum (Al)-Total	2.24		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	0.00036		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.00835		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.0483		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	0.00011		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	0.000691		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	<0.010		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	0.0000111		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	41.4		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-3 SP-GW-FBH-03-D Sampled By: Client on 01-NOV-20 @ 15:15 Matrix: Groundwater							
Total Metals							
Cesium (Cs)-Total	0.000643		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.00469		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	0.00305		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.00925		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	5.78		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	0.00295		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.0038		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	7.64		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	0.428		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.00641		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	0.00830		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	0.136		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	1.98		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.00411		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.000419		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	10.0		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	0.000241		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	5.26		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.236		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	3.99		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	0.000047		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	0.00055		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	0.00143		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	0.0386		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	0.00078		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.000671		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	0.00440		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.0187		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	0.00167		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0053		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00615		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.0204		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Boron (B)-Dissolved	<0.010		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-3 SP-GW-FBH-03-D Sampled By: Client on 01-NOV-20 @ 15:15 Matrix: Groundwater							
Dissolved Metals							
Calcium (Ca)-Dissolved	33.1		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Cesium (Cs)-Dissolved	0.000016		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cobalt (Co)-Dissolved	0.00012		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00131		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Iron (Fe)-Dissolved	0.213		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Lead (Pb)-Dissolved	0.000077		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Lithium (Li)-Dissolved	0.0015		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	5.04		0.0050	mg/L	12-NOV-20	12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.296		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.00607		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Potassium (K)-Dissolved	1.27		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00098		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000135		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silicon (Si)-Dissolved	6.06		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Sodium (Na)-Dissolved	4.80		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.205		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Sulfur (S)-Dissolved	3.59		0.50	mg/L	12-NOV-20	12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Tin (Sn)-Dissolved	0.00022		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	12-NOV-20	12-NOV-20	R5284941
Tungsten (W)-Dissolved	0.00019		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Uranium (U)-Dissolved	0.000403		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Zinc (Zn)-Dissolved	0.0015		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
L2526849-4 SP-GW-FBH-04-D Sampled By: Client on 02-NOV-20 @ 11:57 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	402		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	161		0.50	mg/L		16-NOV-20	
pH	8.09		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	586		3.0	mg/L		07-NOV-20	R5282436
Total Dissolved Solids	255		20	mg/L		07-NOV-20	R5282472
Anions and Nutrients							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-4 SP-GW-FBH-04-D Sampled By: Client on 02-NOV-20 @ 11:57 Matrix: Groundwater							
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	217		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.341		0.010	mg/L	12-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L	07-NOV-20	09-NOV-20	R5283258
Chloride (Cl)	1.40		0.10	mg/L	07-NOV-20	09-NOV-20	R5283258
Fluoride (F)	0.147		0.020	mg/L	07-NOV-20	09-NOV-20	R5283258
Nitrate (as N)	<0.020		0.020	mg/L	07-NOV-20	09-NOV-20	R5283258
Nitrite (as N)	<0.010		0.010	mg/L	07-NOV-20	09-NOV-20	R5283258
Phosphorus (P)-Total	0.062		0.030	mg/L	17-NOV-20	17-NOV-20	R5287388
Silica, Reactive (as SiO2)	15.2		5.0	mg/L		12-NOV-20	R5284398
Sulfate (SO4)	13.1		0.30	mg/L	07-NOV-20	09-NOV-20	R5283258
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-NOV-20	R5286076
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				02-NOV-20	10-NOV-20	R5283744
Dissolved Organic Carbon	6.46		0.50	mg/L	02-NOV-20	16-NOV-20	R5286668
Total Metals							
Aluminum (Al)-Total	6.14		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	0.00095		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.00371		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.0900		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	0.00161		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	0.000267		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	0.102		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	0.0000423		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	68.0		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	0.00158		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.00405		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	0.00210		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.00534		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	3.44		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	0.00845		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.0078		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	9.58		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	0.281		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.000839		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	0.00615		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	<0.050		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	3.24		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.0127		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.000469		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	18.4		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-4 SP-GW-FBH-04-D Sampled By: Client on 02-NOV-20 @ 11:57 Matrix: Groundwater							
Total Metals							
Silver (Ag)-Total	0.000035		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	19.5		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.468		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	3.49		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	0.000095		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	0.00579		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	0.00101		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	0.0142		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	0.00057		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.00243		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	0.00982		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.0114		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	0.00059		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0032		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Antimony (Sb)-Dissolved	0.00162	DTC	0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00155		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.0429		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Boron (B)-Dissolved	0.088		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	0.0000061		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Calcium (Ca)-Dissolved	51.9		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Cesium (Cs)-Dissolved	0.000055		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00014		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cobalt (Co)-Dissolved	0.00026		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00101		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Iron (Fe)-Dissolved	0.110		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Lead (Pb)-Dissolved	0.000076		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Lithium (Li)-Dissolved	0.0038		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	7.53		0.0050	mg/L	12-NOV-20	12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.180		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.00122	DTC	0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Nickel (Ni)-Dissolved	0.00120		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Potassium (K)-Dissolved	2.58		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00252		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-4 SP-GW-FBH-04-D Sampled By: Client on 02-NOV-20 @ 11:57 Matrix: Groundwater							
Dissolved Metals							
Selenium (Se)-Dissolved	0.000216		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silicon (Si)-Dissolved	6.80		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Sodium (Na)-Dissolved	20.6		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.416		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Sulfur (S)-Dissolved	3.78		0.50	mg/L	12-NOV-20	12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Tin (Sn)-Dissolved	0.00030		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	12-NOV-20	12-NOV-20	R5284941
Tungsten (W)-Dissolved	0.00292	DTC	0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Uranium (U)-Dissolved	0.000813		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Vanadium (V)-Dissolved	0.00087		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Zinc (Zn)-Dissolved	0.0017		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	0.00045		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
L2526849-5 SP-GW-FBH-14-D Sampled By: Client on 02-NOV-20 @ 14:32 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	397		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	184		0.50	mg/L		13-NOV-20	
pH	7.42		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	7220		15	mg/L		07-NOV-20	R5282436
Total Dissolved Solids	322		40	mg/L		07-NOV-20	R5282472
Anions and Nutrients							
Acidity (as CaCO3)	10.2		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	556		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	1.39		0.050	mg/L	12-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L	09-NOV-20	09-NOV-20	R5283258
Chloride (Cl)	1.56		0.10	mg/L	09-NOV-20	09-NOV-20	R5283258
Fluoride (F)	0.119		0.020	mg/L	09-NOV-20	09-NOV-20	R5283258
Nitrate (as N)	0.029		0.020	mg/L	09-NOV-20	09-NOV-20	R5283258
Nitrite (as N)	<0.010		0.010	mg/L	09-NOV-20	09-NOV-20	R5283258
Phosphorus (P)-Total	4.3		1.5	mg/L	17-NOV-20	17-NOV-20	R5287388
Silica, Reactive (as SiO2)	15		10	mg/L		12-NOV-20	R5284398
Sulfate (SO4)	17.4		0.30	mg/L	09-NOV-20	09-NOV-20	R5283258
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-NOV-20	R5286076
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				02-NOV-20	10-NOV-20	R5283745
Dissolved Organic Carbon	11.6	DLM	2.5	mg/L	02-NOV-20	16-NOV-20	R5286595

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-5 SP-GW-FBH-14-D Sampled By: Client on 02-NOV-20 @ 14:32 Matrix: Groundwater							
Organic / Inorganic Carbon							
Total Metals							
Aluminum (Al)-Total	78.4		0.030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	0.0040		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.0263		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.568		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	0.0029		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	0.00055		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	<0.10	DLM	0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	0.000464		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	402		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	0.0198		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.171		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	0.0651		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.242		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	117		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	0.0315		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.085		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	121		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	2.16		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.0333		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	0.156		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	3.27		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	20.5		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.116		0.0020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.00894		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	147		1.0	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	0.00141		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	15.8		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.578		0.0020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	8.9		5.0	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.0020	DLM	0.0020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	0.00080		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	0.0297		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	0.0038		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	4.18		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	0.0053		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.0197		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	0.232		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.221		0.030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	0.0663		0.0020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-5 SP-GW-FBH-14-D Sampled By: Client on 02-NOV-20 @ 14:32 Matrix: Groundwater							
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0058		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Antimony (Sb)-Dissolved	0.00038		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00094		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.0525		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Boron (B)-Dissolved	0.012		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	0.0000051		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Calcium (Ca)-Dissolved	61.3		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Cesium (Cs)-Dissolved	0.000105		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00039		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Iron (Fe)-Dissolved	1.93		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Lithium (Li)-Dissolved	0.0034		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	7.48		0.0050	mg/L	12-NOV-20	12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.246		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.00134		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Phosphorus (P)-Dissolved	0.052		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Potassium (K)-Dissolved	2.66		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00189		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000164		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silicon (Si)-Dissolved	7.84		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Sodium (Na)-Dissolved	6.51		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.175		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Sulfur (S)-Dissolved	3.93		0.50	mg/L	12-NOV-20	12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Tin (Sn)-Dissolved	0.00026		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Titanium (Ti)-Dissolved	0.00085		0.00030	mg/L	12-NOV-20	12-NOV-20	R5284941
Tungsten (W)-Dissolved	0.00124		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Uranium (U)-Dissolved	0.000283		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Vanadium (V)-Dissolved	0.00227		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-5 SP-GW-FBH-14-D Sampled By: Client on 02-NOV-20 @ 14:32 Matrix: Groundwater							
Dissolved Metals							
Zirconium (Zr)-Dissolved	0.00172		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
L2526849-6 SP-GW-FBH-09-R1-D Sampled By: Client on 03-NOV-20 @ 10:02 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	417		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	182		0.50	mg/L		13-NOV-20	
pH	7.98		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	2760		7.5	mg/L		07-NOV-20	R5282436
Total Dissolved Solids	251		20	mg/L		07-NOV-20	R5282472
Anions and Nutrients							
Acidity (as CaCO3)	2.7		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	242		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.666		0.025	mg/L	12-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L	09-NOV-20	09-NOV-20	R5283258
Chloride (Cl)	0.96		0.10	mg/L	09-NOV-20	09-NOV-20	R5283258
Fluoride (F)	0.253		0.020	mg/L	09-NOV-20	09-NOV-20	R5283258
Nitrate (as N)	0.027		0.020	mg/L	09-NOV-20	09-NOV-20	R5283258
Nitrite (as N)	<0.010		0.010	mg/L	09-NOV-20	09-NOV-20	R5283258
Phosphorus (P)-Total	1.99		0.30	mg/L	17-NOV-20	17-NOV-20	R5287388
Silica, Reactive (as SiO2)	14		10	mg/L		12-NOV-20	R5284398
Sulfate (SO4)	11.0		0.30	mg/L	09-NOV-20	09-NOV-20	R5283258
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-NOV-20	R5286076
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				03-NOV-20	10-NOV-20	R5283745
Dissolved Organic Carbon	7.82		0.50	mg/L	03-NOV-20	16-NOV-20	R5286595
Total Metals							
Aluminum (Al)-Total	16.2		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	0.00047		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.0147		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.401		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	0.00509		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	0.000252		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	0.044		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	0.000133		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	128		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	0.0241		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.0221		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	0.0121		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.0301		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	36.0		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-6 SP-GW-FBH-09-R1-D Sampled By: Client on 03-NOV-20 @ 10:02 Matrix: Groundwater							
Total Metals							
Lead (Pb)-Total	0.0114		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.0392		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	28.4		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	1.07		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.00129		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	0.0423		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	1.49		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	5.75		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.0294		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.000132		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	30.9		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	0.000435		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	14.5		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.792		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	2.75		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	0.000242		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	0.00879		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	0.00028		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	0.0653		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	0.00091		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.00804		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	0.0395		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.0542		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	0.00221		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0023		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Antimony (Sb)-Dissolved	0.00025		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00070		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.153		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Boron (B)-Dissolved	0.030		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Calcium (Ca)-Dissolved	51.1		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Cesium (Cs)-Dissolved	0.000672		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00012		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00023		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-6 SP-GW-FBH-09-R1-D Sampled By: Client on 03-NOV-20 @ 10:02 Matrix: Groundwater							
Dissolved Metals							
Iron (Fe)-Dissolved	0.843		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Lithium (Li)-Dissolved	0.0045		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	13.3		0.0050	mg/L	12-NOV-20	12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.0595		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.000888		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Potassium (K)-Dissolved	2.86		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00435		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000077		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silicon (Si)-Dissolved	6.55		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Sodium (Na)-Dissolved	14.1		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.619		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Sulfur (S)-Dissolved	2.01		0.50	mg/L	12-NOV-20	12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	12-NOV-20	12-NOV-20	R5284941
Tungsten (W)-Dissolved	0.00100		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Uranium (U)-Dissolved	0.000281		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Vanadium (V)-Dissolved	0.00094		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	0.00098		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
L2526849-7 SP-GW-FBH-07-R1-D Sampled By: Client on 03-NOV-20 @ 10:49 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	349		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	182		0.50	mg/L		16-NOV-20	
pH	7.98		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	1700		7.5	mg/L		07-NOV-20	R5282436
Total Dissolved Solids	213		20	mg/L		07-NOV-20	R5282472
Anions and Nutrients							
Acidity (as CaCO3)	2.4		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	195		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.047		0.025	mg/L	12-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L	09-NOV-20	09-NOV-20	R5283258
Chloride (Cl)	0.50		0.10	mg/L	09-NOV-20	09-NOV-20	R5283258

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-7 SP-GW-FBH-07-R1-D Sampled By: Client on 03-NOV-20 @ 10:49 Matrix: Groundwater							
Anions and Nutrients							
Fluoride (F)	0.093		0.020	mg/L	09-NOV-20	09-NOV-20	R5283258
Nitrate (as N)	<0.020		0.020	mg/L	09-NOV-20	09-NOV-20	R5283258
Nitrite (as N)	<0.010		0.010	mg/L	09-NOV-20	09-NOV-20	R5283258
Phosphorus (P)-Total	<3.0		3.0	mg/L	17-NOV-20	17-NOV-20	R5287388
Silica, Reactive (as SiO2)	13		10	mg/L		12-NOV-20	R5284398
Sulfate (SO4)	8.59		0.30	mg/L	09-NOV-20	09-NOV-20	R5283258
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-NOV-20	R5286076
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				03-NOV-20	10-NOV-20	R5283745
Dissolved Organic Carbon	5.65		0.50	mg/L	03-NOV-20	16-NOV-20	R5286595
Total Metals							
Aluminum (Al)-Total	0.0132		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	0.00040		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.00068		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.0129		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	0.011		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	0.0000081		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	48.5		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	0.000057		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	0.00039		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.00120		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	0.071		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.0019		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	10.5		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	0.120		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.00120		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	<0.050		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	0.902		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.00097		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	5.98		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	7.50		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.158		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	2.02		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-7 SP-GW-FBH-07-R1-D Sampled By: Client on 03-NOV-20 @ 10:49 Matrix: Groundwater							
Total Metals							
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	0.00041		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	0.00348		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.000898		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.0043		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0063		0.0010	mg/L	12-NOV-20	14-NOV-20	R5286257
Antimony (Sb)-Dissolved	0.00035		0.00010	mg/L	12-NOV-20	14-NOV-20	R5286257
Arsenic (As)-Dissolved	0.00096	DTC	0.00010	mg/L	12-NOV-20	14-NOV-20	R5286257
Barium (Ba)-Dissolved	0.0550	DTC	0.00010	mg/L	12-NOV-20	14-NOV-20	R5286257
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	14-NOV-20	R5286257
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	14-NOV-20	R5286257
Boron (B)-Dissolved	0.016		0.010	mg/L	12-NOV-20	14-NOV-20	R5286257
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	14-NOV-20	R5286257
Calcium (Ca)-Dissolved	60.7		0.050	mg/L	12-NOV-20	14-NOV-20	R5286257
Cesium (Cs)-Dissolved	0.000108	DTC	0.000010	mg/L	12-NOV-20	14-NOV-20	R5286257
Chromium (Cr)-Dissolved	0.00035	DTC	0.00010	mg/L	12-NOV-20	14-NOV-20	R5286257
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	14-NOV-20	R5286257
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	14-NOV-20	R5286257
Iron (Fe)-Dissolved	1.94	DTC	0.010	mg/L	12-NOV-20	14-NOV-20	R5286257
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	14-NOV-20	R5286257
Lithium (Li)-Dissolved	0.0039	DTC	0.0010	mg/L	12-NOV-20	14-NOV-20	R5286257
Magnesium (Mg)-Dissolved	7.28		0.0050	mg/L	12-NOV-20	14-NOV-20	R5286257
Manganese (Mn)-Dissolved	0.240	DTC	0.00010	mg/L	12-NOV-20	14-NOV-20	R5286257
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.00136		0.000050	mg/L	12-NOV-20	14-NOV-20	R5286257
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	14-NOV-20	R5286257
Phosphorus (P)-Dissolved	0.052		0.050	mg/L	12-NOV-20	14-NOV-20	R5286257
Potassium (K)-Dissolved	2.60	DTC	0.050	mg/L	12-NOV-20	14-NOV-20	R5286257
Rubidium (Rb)-Dissolved	0.00196	DUPH	0.00020	mg/L	12-NOV-20	14-NOV-20	R5286257
Selenium (Se)-Dissolved	0.000119		0.000050	mg/L	12-NOV-20	14-NOV-20	R5286257
Silicon (Si)-Dissolved	7.62		0.050	mg/L	12-NOV-20	14-NOV-20	R5286257
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	14-NOV-20	R5286257
Sodium (Na)-Dissolved	6.33		0.050	mg/L	12-NOV-20	14-NOV-20	R5286257
Strontium (Sr)-Dissolved	0.177		0.00020	mg/L	12-NOV-20	14-NOV-20	R5286257

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526849-7 SP-GW-FBH-07-R1-D Sampled By: Client on 03-NOV-20 @ 10:49 Matrix: Groundwater							
Dissolved Metals							
Sulfur (S)-Dissolved	3.85	DTMF	0.50	mg/L	12-NOV-20	14-NOV-20	R5286257
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	14-NOV-20	R5286257
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	14-NOV-20	R5286257
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	14-NOV-20	R5286257
Tin (Sn)-Dissolved	0.00028		0.00010	mg/L	12-NOV-20	14-NOV-20	R5286257
Titanium (Ti)-Dissolved	0.00094		0.00030	mg/L	12-NOV-20	14-NOV-20	R5286257
Tungsten (W)-Dissolved	0.00136		0.00010	mg/L	12-NOV-20	14-NOV-20	R5286257
Uranium (U)-Dissolved	0.000305		0.000010	mg/L	12-NOV-20	14-NOV-20	R5286257
Vanadium (V)-Dissolved	0.00239	DTC	0.00050	mg/L	12-NOV-20	14-NOV-20	R5286257
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	12-NOV-20	14-NOV-20	R5286257
Zirconium (Zr)-Dissolved	0.00172	DTC	0.00020	mg/L	12-NOV-20	14-NOV-20	R5286257

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Silicon (Si)-Total	B	L2526849-1, -2, -3, -4, -5, -6, -7
Method Blank	Silicon (Si)-Total	B	L2526849-1, -2, -3, -4, -5, -6, -7
Duplicate	Chloride (Cl)	DUP-H	L2526849-5, -6, -7
Method Blank	Ammonia, Total (as N)	MB-LOR	L2526849-1, -2, -3, -4, -5, -6, -7
Laboratory Control Sample	Iron (Fe)-Dissolved	MES	L2526849-1, -2, -3, -4, -5, -6, -7
Laboratory Control Sample	Iron (Fe)-Dissolved	MES	L2526849-1, -2, -3, -4, -5, -6, -7
Laboratory Control Sample	Iron (Fe)-Total	MES	L2526849-1, -2, -3, -4, -5, -6, -7
Laboratory Control Sample	Iron (Fe)-Total	MES	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Dissolved Organic Carbon	MS-B	L2526849-5, -6, -7
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Potassium (K)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Aluminum (Al)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Barium (Ba)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Calcium (Ca)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Chromium (Cr)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Cobalt (Co)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Copper (Cu)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Iron (Fe)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Manganese (Mn)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Nickel (Ni)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Potassium (K)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Rubidium (Rb)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Sodium (Na)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Strontium (Sr)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Titanium (Ti)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Uranium (U)-Total	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Ammonia, Total (as N)	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Phosphorus (P)-Total	MS-B	L2526849-2
Matrix Spike	Silica, Reactive (as SiO2)	MS-B	L2526849-1, -2, -3, -4, -5, -6, -7
Matrix Spike	Sulfate (SO4)	MS-B	L2526849-1
Matrix Spike	Sulfate (SO4)	MS-B	L2526849-5, -6, -7

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
DTMF	Dissolved concentration exceeds total for field-filtered metals sample. Metallic contaminants may have been introduced to dissolved sample during field filtration.
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
DUPH	Duplicate results outside ALS DQO, due to sample heterogeneity.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).

Reference Information

MS-B Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CN-TOT-WT	Water	Cyanide, Total	ISO 14403-2

Total cyanide is determined by the combination of UV digestion and distillation. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

When using this method, high levels of thiocyanate in samples can cause false positives at ~1-2% of the thiocyanate concentration. For samples with detectable cyanide analyzed by this method, ALS recommends analysis for thiocyanate to check for this potential interference

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

Reference Information

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

SIO2-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5282559								
WG3440914-3 DUP		**L2526849-6**						
Acidity (as CaCO3)		2.7	3.4	J	mg/L	0.6	4	08-NOV-20
WG3441180-3 DUP		**L2526849-4**						
Acidity (as CaCO3)		<2.0	<2.0	RPD-NA	mg/L	N/A	20	08-NOV-20
WG3440914-2 LCS								
Acidity (as CaCO3)			101.2		%		85-115	08-NOV-20
WG3440920-2 LCS								
Acidity (as CaCO3)			100.6		%		85-115	08-NOV-20
WG3441180-2 LCS								
Acidity (as CaCO3)			99.8		%		85-115	08-NOV-20
WG3440914-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	08-NOV-20
WG3440920-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	08-NOV-20
WG3441180-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	08-NOV-20
ALK-TITR-TB	Water							
Batch R5282372								
WG3440895-2 LCS								
Alkalinity, Total (as CaCO3)			103.5		%		85-115	07-NOV-20
WG3440901-2 LCS								
Alkalinity, Total (as CaCO3)			103.7		%		85-115	07-NOV-20
WG3440910-2 LCS								
Alkalinity, Total (as CaCO3)			102.9		%		85-115	07-NOV-20
WG3441159-2 LCS								
Alkalinity, Total (as CaCO3)			104.8		%		85-115	07-NOV-20
WG3441165-2 LCS								
Alkalinity, Total (as CaCO3)			104.5		%		85-115	07-NOV-20
WG3440895-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	07-NOV-20
WG3440901-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	07-NOV-20
WG3440910-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	07-NOV-20
WG3441159-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	07-NOV-20
WG3441165-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	07-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-IC-N-TB	Water							
Batch R5283258								
WG3441190-3 DUP		**L2526849-4**						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	09-NOV-20
WG3441190-2 LCS								
Bromide (Br)			103.8		%		85-115	09-NOV-20
WG3441821-2 LCS								
Bromide (Br)			103.8		%		85-115	09-NOV-20
WG3441190-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	09-NOV-20
WG3441821-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	09-NOV-20
Batch R5284544								
WG3440971-2 LCS								
Bromide (Br)			95.3		%		85-115	11-NOV-20
WG3441189-2 LCS								
Bromide (Br)			92.6		%		85-115	11-NOV-20
WG3440971-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	11-NOV-20
WG3441189-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	11-NOV-20
CL-L-IC-N-TB	Water							
Batch R5283258								
WG3441190-3 DUP		**L2526849-4**						
Chloride (Cl)		1.40	1.29		mg/L	7.8	20	09-NOV-20
WG3441190-2 LCS								
Chloride (Cl)			109.2		%		90-110	09-NOV-20
WG3441821-2 LCS								
Chloride (Cl)			102.1		%		90-110	09-NOV-20
WG3441190-1 MB								
Chloride (Cl)			<0.50		mg/L		0.5	09-NOV-20
WG3441821-1 MB								
Chloride (Cl)			<0.20		mg/L		0.2	09-NOV-20
Batch R5284544								
WG3440971-2 LCS								
Chloride (Cl)			102.8		%		90-110	11-NOV-20
WG3441189-2 LCS								
Chloride (Cl)			93.6		%		90-110	11-NOV-20
WG3440971-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	11-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB	Water							
Batch R5284544								
WG3441189-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	11-NOV-20
CN-TOT-WT	Water							
Batch R5284551								
WG3443635-17 LCS								
Cyanide, Total			89.8		%		80-120	12-NOV-20
WG3443635-16 MB								
Cyanide, Total			<0.0020		mg/L		0.002	12-NOV-20
Batch R5286076								
WG3444971-2 LCS								
Cyanide, Total			97.3		%		80-120	13-NOV-20
WG3444971-1 MB								
Cyanide, Total			<0.0020		mg/L		0.002	13-NOV-20
DOC-WT	Water							
Batch R5286595								
WG3443023-3 DUP		**L2526849-5**						
Dissolved Organic Carbon		11.6	12.6		mg/L	8.3	20	16-NOV-20
WG3443023-2 LCS								
Dissolved Organic Carbon			96.7		%		80-120	16-NOV-20
WG3443023-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	16-NOV-20
WG3443023-4 MS		**L2526849-5**						
Dissolved Organic Carbon			N/A	MS-B	%		-	16-NOV-20
Batch R5286668								
WG3443021-2 LCS								
Dissolved Organic Carbon			98.9		%		80-120	16-NOV-20
WG3443021-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	16-NOV-20
EC-TITR-TB	Water							
Batch R5282372								
WG3440895-2 LCS								
Conductivity (EC)			98.7		%		90-110	07-NOV-20
WG3440901-2 LCS								
Conductivity (EC)			98.7		%		90-110	07-NOV-20
WG3440910-2 LCS								
Conductivity (EC)			98.9		%		90-110	07-NOV-20
WG3441159-2 LCS								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-TITR-TB	Water							
Batch R5282372								
WG3441159-2 LCS								
Conductivity (EC)			98.9		%		90-110	07-NOV-20
WG3441165-2 LCS								
Conductivity (EC)			99.1		%		90-110	07-NOV-20
WG3440895-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	07-NOV-20
WG3440901-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	07-NOV-20
WG3440910-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	07-NOV-20
WG3441159-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	07-NOV-20
WG3441165-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	07-NOV-20
F-IC-N-TB	Water							
Batch R5283258								
WG3441190-3 DUP		**L2526849-4**						
Fluoride (F)		0.147	0.142		mg/L	3.5	20	09-NOV-20
WG3441190-2 LCS								
Fluoride (F)			104.5		%		90-110	09-NOV-20
WG3441821-2 LCS								
Fluoride (F)			106.9		%		90-110	09-NOV-20
WG3441190-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	09-NOV-20
WG3441821-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	09-NOV-20
Batch R5284544								
WG3440971-2 LCS								
Fluoride (F)			102.2		%		90-110	11-NOV-20
WG3441189-2 LCS								
Fluoride (F)			92.5		%		90-110	11-NOV-20
WG3440971-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	11-NOV-20
WG3441189-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	11-NOV-20
HG-D-CVAA-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAA-WT	Water							
Batch R5284332								
WG3443473-2 LCS								
Mercury (Hg)-Dissolved			101.0		%		80-120	12-NOV-20
WG3443473-1 MB								
Mercury (Hg)-Dissolved			<0.000005C		mg/L		0.000005	12-NOV-20
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-11 DUP		**L2526849-3**						
Aluminum (Al)-Dissolved		0.0053	0.0043		mg/L	20	20	12-NOV-20
Antimony (Sb)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-NOV-20
Arsenic (As)-Dissolved		0.00615	0.00622		mg/L	1.1	20	12-NOV-20
Barium (Ba)-Dissolved		0.0204	0.0206		mg/L	0.7	20	12-NOV-20
Beryllium (Be)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-NOV-20
Bismuth (Bi)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	12-NOV-20
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	12-NOV-20
Cadmium (Cd)-Dissolved		<0.0000050	<0.000005C	RPD-NA	mg/L	N/A	20	12-NOV-20
Calcium (Ca)-Dissolved		33.1	33.6		mg/L	1.4	20	12-NOV-20
Cesium (Cs)-Dissolved		0.000016	0.000015		mg/L	6.5	20	12-NOV-20
Chromium (Cr)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-NOV-20
Cobalt (Co)-Dissolved		0.00012	0.00011		mg/L	1.8	20	12-NOV-20
Copper (Cu)-Dissolved		0.00131	0.00136		mg/L	3.7	20	12-NOV-20
Iron (Fe)-Dissolved		0.213	0.208		mg/L	2.4	20	12-NOV-20
Lead (Pb)-Dissolved		0.000077	0.000070		mg/L	9.6	20	12-NOV-20
Lithium (Li)-Dissolved		0.0015	0.0016		mg/L	2.6	20	12-NOV-20
Magnesium (Mg)-Dissolved		5.04	5.01		mg/L	0.6	20	12-NOV-20
Manganese (Mn)-Dissolved		0.296	0.293		mg/L	1.0	20	12-NOV-20
Molybdenum (Mo)-Dissolved		0.00607	0.00601		mg/L	0.9	20	12-NOV-20
Nickel (Ni)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	12-NOV-20
Phosphorus (P)-Dissolved		<0.050	<0.050	RPD-NA	mg/L	N/A	20	12-NOV-20
Potassium (K)-Dissolved		1.27	1.26		mg/L	0.5	20	12-NOV-20
Rubidium (Rb)-Dissolved		0.00098	0.00102		mg/L	3.5	20	12-NOV-20
Selenium (Se)-Dissolved		0.000135	0.000152		mg/L	12	20	12-NOV-20
Silicon (Si)-Dissolved		6.06	6.11		mg/L	0.8	20	12-NOV-20
Silver (Ag)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	12-NOV-20
Sodium (Na)-Dissolved		4.80	4.81		mg/L	0.1	20	12-NOV-20
Strontium (Sr)-Dissolved		0.205	0.205		mg/L	0.2	20	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-11 DUP		**L2526849-3**						
Sulfur (S)-Dissolved		3.59	3.71		mg/L	3.2	20	12-NOV-20
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-NOV-20
Thallium (Tl)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	12-NOV-20
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	12-NOV-20
Tin (Sn)-Dissolved		0.00022	0.00021		mg/L	3.7	20	12-NOV-20
Titanium (Ti)-Dissolved		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	12-NOV-20
Tungsten (W)-Dissolved		0.00019	0.00020		mg/L	4.5	20	12-NOV-20
Uranium (U)-Dissolved		0.000403	0.000422		mg/L	4.5	20	12-NOV-20
Vanadium (V)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	12-NOV-20
Zinc (Zn)-Dissolved		0.0015	0.0014		mg/L	7.9	20	12-NOV-20
Zirconium (Zr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-NOV-20
WG3443590-10 LCS								
Aluminum (Al)-Dissolved			105.3		%		80-120	12-NOV-20
Antimony (Sb)-Dissolved			100.6		%		80-120	12-NOV-20
Arsenic (As)-Dissolved			110.6		%		80-120	12-NOV-20
Barium (Ba)-Dissolved			105.4		%		80-120	12-NOV-20
Beryllium (Be)-Dissolved			88.9		%		80-120	12-NOV-20
Bismuth (Bi)-Dissolved			99.1		%		80-120	12-NOV-20
Boron (B)-Dissolved			93.9		%		80-120	12-NOV-20
Cadmium (Cd)-Dissolved			105.1		%		80-120	12-NOV-20
Calcium (Ca)-Dissolved			98.9		%		80-120	12-NOV-20
Cesium (Cs)-Dissolved			107.3		%		80-120	12-NOV-20
Chromium (Cr)-Dissolved			104.7		%		80-120	12-NOV-20
Cobalt (Co)-Dissolved			105.4		%		80-120	12-NOV-20
Copper (Cu)-Dissolved			105.3		%		80-120	12-NOV-20
Iron (Fe)-Dissolved			121.5	MES	%		80-120	12-NOV-20
Lead (Pb)-Dissolved			97.4		%		80-120	12-NOV-20
Lithium (Li)-Dissolved			88.2		%		80-120	12-NOV-20
Magnesium (Mg)-Dissolved			104.1		%		80-120	12-NOV-20
Manganese (Mn)-Dissolved			106.2		%		80-120	12-NOV-20
Molybdenum (Mo)-Dissolved			99.6		%		80-120	12-NOV-20
Nickel (Ni)-Dissolved			104.9		%		80-120	12-NOV-20
Phosphorus (P)-Dissolved			110.9		%		80-120	12-NOV-20
Potassium (K)-Dissolved			107.2		%		80-120	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-10 LCS								
Rubidium (Rb)-Dissolved			110.3		%		80-120	12-NOV-20
Selenium (Se)-Dissolved			102.7		%		80-120	12-NOV-20
Silicon (Si)-Dissolved			101.3		%		80-120	12-NOV-20
Silver (Ag)-Dissolved			102.3		%		80-120	12-NOV-20
Sodium (Na)-Dissolved			105.6		%		80-120	12-NOV-20
Strontium (Sr)-Dissolved			104.6		%		80-120	12-NOV-20
Sulfur (S)-Dissolved			87.6		%		80-120	12-NOV-20
Tellurium (Te)-Dissolved			103.3		%		80-120	12-NOV-20
Thallium (Tl)-Dissolved			98.1		%		80-120	12-NOV-20
Thorium (Th)-Dissolved			102.6		%		80-120	12-NOV-20
Tin (Sn)-Dissolved			100.4		%		80-120	12-NOV-20
Titanium (Ti)-Dissolved			102.0		%		80-120	12-NOV-20
Tungsten (W)-Dissolved			97.6		%		80-120	12-NOV-20
Uranium (U)-Dissolved			105.0		%		80-120	12-NOV-20
Vanadium (V)-Dissolved			105.7		%		80-120	12-NOV-20
Zinc (Zn)-Dissolved			103.7		%		80-120	12-NOV-20
Zirconium (Zr)-Dissolved			103.7		%		80-120	12-NOV-20
WG3443590-14 LCS								
Aluminum (Al)-Dissolved			103.5		%		80-120	12-NOV-20
Antimony (Sb)-Dissolved			100.9		%		80-120	12-NOV-20
Arsenic (As)-Dissolved			106.1		%		80-120	12-NOV-20
Barium (Ba)-Dissolved			100.7		%		80-120	12-NOV-20
Beryllium (Be)-Dissolved			94.4		%		80-120	12-NOV-20
Bismuth (Bi)-Dissolved			104.3		%		80-120	12-NOV-20
Boron (B)-Dissolved			92.0		%		80-120	12-NOV-20
Cadmium (Cd)-Dissolved			102.9		%		80-120	12-NOV-20
Calcium (Ca)-Dissolved			101.8		%		80-120	12-NOV-20
Cesium (Cs)-Dissolved			106.1		%		80-120	12-NOV-20
Chromium (Cr)-Dissolved			100.7		%		80-120	12-NOV-20
Cobalt (Co)-Dissolved			102.0		%		80-120	12-NOV-20
Copper (Cu)-Dissolved			101.0		%		80-120	12-NOV-20
Iron (Fe)-Dissolved			123.0	MES	%		80-120	12-NOV-20
Lead (Pb)-Dissolved			101.7		%		80-120	12-NOV-20
Lithium (Li)-Dissolved			97.4		%		80-120	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-14 LCS								
Magnesium (Mg)-Dissolved			101.8		%		80-120	12-NOV-20
Manganese (Mn)-Dissolved			101.2		%		80-120	12-NOV-20
Molybdenum (Mo)-Dissolved			102.1		%		80-120	12-NOV-20
Nickel (Ni)-Dissolved			100.6		%		80-120	12-NOV-20
Phosphorus (P)-Dissolved			109.2		%		80-120	12-NOV-20
Potassium (K)-Dissolved			102.2		%		80-120	12-NOV-20
Rubidium (Rb)-Dissolved			101.0		%		80-120	12-NOV-20
Selenium (Se)-Dissolved			107.7		%		80-120	12-NOV-20
Silicon (Si)-Dissolved			102.1		%		80-120	12-NOV-20
Silver (Ag)-Dissolved			101.8		%		80-120	12-NOV-20
Sodium (Na)-Dissolved			100.7		%		80-120	12-NOV-20
Strontium (Sr)-Dissolved			106.9		%		80-120	12-NOV-20
Sulfur (S)-Dissolved			94.7		%		80-120	12-NOV-20
Tellurium (Te)-Dissolved			100.3		%		80-120	12-NOV-20
Thallium (Tl)-Dissolved			101.2		%		80-120	12-NOV-20
Thorium (Th)-Dissolved			107.8		%		80-120	12-NOV-20
Tin (Sn)-Dissolved			101.6		%		80-120	12-NOV-20
Titanium (Ti)-Dissolved			96.7		%		80-120	12-NOV-20
Tungsten (W)-Dissolved			101.1		%		80-120	12-NOV-20
Uranium (U)-Dissolved			109.8		%		80-120	12-NOV-20
Vanadium (V)-Dissolved			103.2		%		80-120	12-NOV-20
Zinc (Zn)-Dissolved			96.6		%		80-120	12-NOV-20
Zirconium (Zr)-Dissolved			106.7		%		80-120	12-NOV-20
WG3443590-13 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	12-NOV-20
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	12-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-13 MB								
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	12-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	12-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	12-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	12-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	12-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	12-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
WG3443590-9 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-9 MB								
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	12-NOV-20
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	12-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	12-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	12-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	12-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	12-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	12-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	12-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-9 MB								
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
WG3443590-12 MS		**L2526849-4**						
Aluminum (Al)-Dissolved			103.5		%		70-130	12-NOV-20
Antimony (Sb)-Dissolved			89.5		%		70-130	12-NOV-20
Arsenic (As)-Dissolved			111.0		%		70-130	12-NOV-20
Barium (Ba)-Dissolved			N/A	MS-B	%		-	12-NOV-20
Beryllium (Be)-Dissolved			97.7		%		70-130	12-NOV-20
Bismuth (Bi)-Dissolved			101.5		%		70-130	12-NOV-20
Boron (B)-Dissolved			86.4		%		70-130	12-NOV-20
Cadmium (Cd)-Dissolved			107.0		%		70-130	12-NOV-20
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	12-NOV-20
Cesium (Cs)-Dissolved			110.7		%		70-130	12-NOV-20
Chromium (Cr)-Dissolved			102.2		%		70-130	12-NOV-20
Cobalt (Co)-Dissolved			101.2		%		70-130	12-NOV-20
Copper (Cu)-Dissolved			102.3		%		70-130	12-NOV-20
Iron (Fe)-Dissolved			103.8		%		70-130	12-NOV-20
Lead (Pb)-Dissolved			101.0		%		70-130	12-NOV-20
Lithium (Li)-Dissolved			94.1		%		70-130	12-NOV-20
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	12-NOV-20
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	12-NOV-20
Molybdenum (Mo)-Dissolved			90.8		%		70-130	12-NOV-20
Nickel (Ni)-Dissolved			101.7		%		70-130	12-NOV-20
Phosphorus (P)-Dissolved			114.8		%		70-130	12-NOV-20
Potassium (K)-Dissolved			97.5		%		70-130	12-NOV-20
Rubidium (Rb)-Dissolved			102.0		%		70-130	12-NOV-20
Selenium (Se)-Dissolved			118.1		%		70-130	12-NOV-20
Silicon (Si)-Dissolved			74.0		%		70-130	12-NOV-20
Silver (Ag)-Dissolved			95.3		%		70-130	12-NOV-20
Sodium (Na)-Dissolved			N/A	MS-B	%		-	12-NOV-20
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	12-NOV-20
Sulfur (S)-Dissolved			111.5		%		70-130	12-NOV-20
Tellurium (Te)-Dissolved			92.1		%		70-130	12-NOV-20
Thallium (Tl)-Dissolved			100.9		%		70-130	12-NOV-20
Thorium (Th)-Dissolved			111.0		%		70-130	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-12 MS		**L2526849-4**						
Tin (Sn)-Dissolved			90.1		%		70-130	12-NOV-20
Titanium (Ti)-Dissolved			87.9		%		70-130	12-NOV-20
Tungsten (W)-Dissolved			88.4		%		70-130	12-NOV-20
Uranium (U)-Dissolved			108.5		%		70-130	12-NOV-20
Vanadium (V)-Dissolved			103.9		%		70-130	12-NOV-20
Zinc (Zn)-Dissolved			101.3		%		70-130	12-NOV-20
Zirconium (Zr)-Dissolved			94.4		%		70-130	12-NOV-20
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-3 DUP		**L2526849-1**						
Aluminum (Al)-Total		22.9	23.0		mg/L	0.1	20	12-NOV-20
Antimony (Sb)-Total		0.00171	0.00171		mg/L	0.6	20	12-NOV-20
Arsenic (As)-Total		0.0174	0.0174		mg/L	0.1	20	12-NOV-20
Barium (Ba)-Total		0.239	0.254		mg/L	6.0	20	12-NOV-20
Beryllium (Be)-Total		0.00048	0.00048		mg/L	1.1	20	12-NOV-20
Bismuth (Bi)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	12-NOV-20
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	12-NOV-20
Cadmium (Cd)-Total		0.000378	0.000365		mg/L	3.4	20	12-NOV-20
Calcium (Ca)-Total		197	197		mg/L	0.0	20	12-NOV-20
Cesium (Cs)-Total		0.0114	0.0116		mg/L	2.1	20	12-NOV-20
Chromium (Cr)-Total		0.0674	0.0684		mg/L	1.6	20	12-NOV-20
Cobalt (Co)-Total		0.0204	0.0210		mg/L	3.1	20	12-NOV-20
Copper (Cu)-Total		0.0924	0.0930		mg/L	0.6	20	12-NOV-20
Iron (Fe)-Total		34.3	35.1		mg/L	2.3	20	12-NOV-20
Lead (Pb)-Total		0.0218	0.0220		mg/L	0.5	20	12-NOV-20
Lithium (Li)-Total		0.0223	0.0226		mg/L	1.3	20	12-NOV-20
Magnesium (Mg)-Total		24.8	25.5		mg/L	2.6	20	12-NOV-20
Manganese (Mn)-Total		2.04	2.05		mg/L	0.7	20	12-NOV-20
Molybdenum (Mo)-Total		0.000938	0.000909		mg/L	3.2	20	12-NOV-20
Nickel (Ni)-Total		0.0396	0.0406		mg/L	2.6	20	12-NOV-20
Phosphorus (P)-Total		1.90	1.97		mg/L	3.4	20	12-NOV-20
Potassium (K)-Total		8.90	9.48		mg/L	6.3	20	12-NOV-20
Rubidium (Rb)-Total		0.0392	0.0398		mg/L	1.5	20	12-NOV-20
Selenium (Se)-Total		0.000612	0.000609		mg/L	0.5	20	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-3 DUP		**L2526849-1**						
Silicon (Si)-Total		35.8	36.6		mg/L	2.1	20	12-NOV-20
Silver (Ag)-Total		0.00183	0.00200		mg/L	9.0	20	12-NOV-20
Sodium (Na)-Total		3.92	3.95		mg/L	0.7	20	12-NOV-20
Strontium (Sr)-Total		0.541	0.546		mg/L	1.0	20	12-NOV-20
Sulfur (S)-Total		0.97	1.23	J	mg/L	0.26	1	12-NOV-20
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-NOV-20
Thallium (Tl)-Total		0.000358	0.000374		mg/L	4.3	20	12-NOV-20
Thorium (Th)-Total		0.00420	0.00427		mg/L	1.5	20	12-NOV-20
Tin (Sn)-Total		0.00047	0.00047		mg/L	0.9	20	12-NOV-20
Titanium (Ti)-Total		1.56	1.59		mg/L	1.6	20	12-NOV-20
Tungsten (W)-Total		0.00610	0.00671		mg/L	9.5	20	12-NOV-20
Uranium (U)-Total		0.00162	0.00164		mg/L	1.5	20	12-NOV-20
Vanadium (V)-Total		0.116	0.119		mg/L	2.5	20	12-NOV-20
Zinc (Zn)-Total		0.0622	0.0626		mg/L	0.6	20	12-NOV-20
Zirconium (Zr)-Total		0.0113	0.0112		mg/L	1.6	20	12-NOV-20
WG3443089-2 LCS								
Aluminum (Al)-Total			103.0		%		80-120	12-NOV-20
Antimony (Sb)-Total			105.0		%		80-120	12-NOV-20
Arsenic (As)-Total			106.1		%		80-120	12-NOV-20
Barium (Ba)-Total			101.3		%		80-120	12-NOV-20
Beryllium (Be)-Total			91.1		%		80-120	12-NOV-20
Bismuth (Bi)-Total			99.0		%		80-120	12-NOV-20
Boron (B)-Total			84.9		%		80-120	12-NOV-20
Cadmium (Cd)-Total			101.8		%		80-120	12-NOV-20
Calcium (Ca)-Total			100.9		%		80-120	12-NOV-20
Cesium (Cs)-Total			106.5		%		80-120	12-NOV-20
Chromium (Cr)-Total			104.5		%		80-120	12-NOV-20
Cobalt (Co)-Total			102.2		%		80-120	12-NOV-20
Copper (Cu)-Total			101.3		%		80-120	12-NOV-20
Iron (Fe)-Total			127.1	MES	%		80-120	12-NOV-20
Lead (Pb)-Total			99.96		%		80-120	12-NOV-20
Lithium (Li)-Total			93.5		%		80-120	12-NOV-20
Magnesium (Mg)-Total			102.9		%		80-120	12-NOV-20
Manganese (Mn)-Total			103.4		%		80-120	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-2 LCS								
Molybdenum (Mo)-Total			102.0		%		80-120	12-NOV-20
Nickel (Ni)-Total			99.7		%		80-120	12-NOV-20
Phosphorus (P)-Total			107.4		%		80-120	12-NOV-20
Potassium (K)-Total			102.2		%		80-120	12-NOV-20
Rubidium (Rb)-Total			103.1		%		80-120	12-NOV-20
Selenium (Se)-Total			105.1		%		80-120	12-NOV-20
Silicon (Si)-Total			102.6		%		80-120	12-NOV-20
Silver (Ag)-Total			104.1		%		80-120	12-NOV-20
Sodium (Na)-Total			103.1		%		80-120	12-NOV-20
Strontium (Sr)-Total			105.6		%		80-120	12-NOV-20
Sulfur (S)-Total			94.2		%		80-120	12-NOV-20
Tellurium (Te)-Total			107.1		%		80-120	12-NOV-20
Thallium (Tl)-Total			100.5		%		80-120	12-NOV-20
Thorium (Th)-Total			105.8		%		80-120	12-NOV-20
Tin (Sn)-Total			102.2		%		80-120	12-NOV-20
Titanium (Ti)-Total			97.7		%		80-120	12-NOV-20
Tungsten (W)-Total			100.1		%		80-120	12-NOV-20
Uranium (U)-Total			105.4		%		80-120	12-NOV-20
Vanadium (V)-Total			103.3		%		80-120	12-NOV-20
Zinc (Zn)-Total			98.6		%		80-120	12-NOV-20
Zirconium (Zr)-Total			106.1		%		80-120	12-NOV-20
WG3443089-6 LCS								
Aluminum (Al)-Total			102.8		%		80-120	12-NOV-20
Antimony (Sb)-Total			105.0		%		80-120	12-NOV-20
Arsenic (As)-Total			106.9		%		80-120	12-NOV-20
Barium (Ba)-Total			103.2		%		80-120	12-NOV-20
Beryllium (Be)-Total			92.6		%		80-120	12-NOV-20
Bismuth (Bi)-Total			99.5		%		80-120	12-NOV-20
Boron (B)-Total			92.4		%		80-120	12-NOV-20
Cadmium (Cd)-Total			104.1		%		80-120	12-NOV-20
Calcium (Ca)-Total			102.4		%		80-120	12-NOV-20
Cesium (Cs)-Total			107.0		%		80-120	12-NOV-20
Chromium (Cr)-Total			102.7		%		80-120	12-NOV-20
Cobalt (Co)-Total			103.2		%		80-120	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-6 LCS								
Copper (Cu)-Total			104.1		%		80-120	12-NOV-20
Iron (Fe)-Total			127.5	MES	%		80-120	12-NOV-20
Lead (Pb)-Total			98.7		%		80-120	12-NOV-20
Lithium (Li)-Total			94.6		%		80-120	12-NOV-20
Magnesium (Mg)-Total			102.1		%		80-120	12-NOV-20
Manganese (Mn)-Total			103.5		%		80-120	12-NOV-20
Molybdenum (Mo)-Total			104.5		%		80-120	12-NOV-20
Nickel (Ni)-Total			102.5		%		80-120	12-NOV-20
Phosphorus (P)-Total			106.2		%		80-120	12-NOV-20
Potassium (K)-Total			106.9		%		80-120	12-NOV-20
Rubidium (Rb)-Total			103.9		%		80-120	12-NOV-20
Selenium (Se)-Total			104.0		%		80-120	12-NOV-20
Silicon (Si)-Total			105.7		%		80-120	12-NOV-20
Silver (Ag)-Total			103.2		%		80-120	12-NOV-20
Sodium (Na)-Total			102.2		%		80-120	12-NOV-20
Strontium (Sr)-Total			107.0		%		80-120	12-NOV-20
Sulfur (S)-Total			88.8		%		80-120	12-NOV-20
Tellurium (Te)-Total			101.6		%		80-120	12-NOV-20
Thallium (Tl)-Total			97.4		%		80-120	12-NOV-20
Thorium (Th)-Total			104.9		%		80-120	12-NOV-20
Tin (Sn)-Total			102.8		%		80-120	12-NOV-20
Titanium (Ti)-Total			102.2		%		80-120	12-NOV-20
Tungsten (W)-Total			100.8		%		80-120	12-NOV-20
Uranium (U)-Total			107.7		%		80-120	12-NOV-20
Vanadium (V)-Total			103.5		%		80-120	12-NOV-20
Zinc (Zn)-Total			99.8		%		80-120	12-NOV-20
Zirconium (Zr)-Total			106.8		%		80-120	12-NOV-20
WG3443089-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	12-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-1 MB								
Boron (B)-Total			<0.010		mg/L		0.01	12-NOV-20
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	12-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	12-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	12-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	12-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	12-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	12-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	12-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Silicon (Si)-Total			0.15	B	mg/L		0.1	12-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	12-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	12-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	12-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	12-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	12-NOV-20
WG3443089-5 MB								

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-5 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	12-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	12-NOV-20
Cadmium (Cd)-Total			<0.000005C		mg/L		0.000005	12-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	12-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	12-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	12-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	12-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	12-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	12-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Silicon (Si)-Total			0.12	B	mg/L		0.1	12-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	12-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	12-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	12-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-5 MB								
Tungsten (W)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	12-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	12-NOV-20
WG3443089-4 MS		**L2526849-2**						
Aluminum (Al)-Total			N/A	MS-B	%		-	12-NOV-20
Antimony (Sb)-Total			86.9		%		70-130	12-NOV-20
Arsenic (As)-Total			106.7		%		70-130	12-NOV-20
Barium (Ba)-Total			N/A	MS-B	%		-	12-NOV-20
Beryllium (Be)-Total			94.5		%		70-130	12-NOV-20
Bismuth (Bi)-Total			103.1		%		70-130	12-NOV-20
Boron (B)-Total			94.0		%		70-130	12-NOV-20
Cadmium (Cd)-Total			107.8		%		70-120	12-NOV-20
Calcium (Ca)-Total			N/A	MS-B	%		-	12-NOV-20
Cesium (Cs)-Total			116.9		%		70-130	12-NOV-20
Chromium (Cr)-Total			N/A	MS-B	%		-	12-NOV-20
Cobalt (Co)-Total			N/A	MS-B	%		-	12-NOV-20
Copper (Cu)-Total			N/A	MS-B	%		-	12-NOV-20
Iron (Fe)-Total			N/A	MS-B	%		-	12-NOV-20
Lead (Pb)-Total			99.6		%		70-130	12-NOV-20
Lithium (Li)-Total			104.6		%		70-130	12-NOV-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	12-NOV-20
Manganese (Mn)-Total			N/A	MS-B	%		-	12-NOV-20
Molybdenum (Mo)-Total			108.1		%		70-130	12-NOV-20
Nickel (Ni)-Total			N/A	MS-B	%		-	12-NOV-20
Phosphorus (P)-Total			107.3		%		70-130	12-NOV-20
Potassium (K)-Total			N/A	MS-B	%		-	12-NOV-20
Rubidium (Rb)-Total			N/A	MS-B	%		-	12-NOV-20
Selenium (Se)-Total			109.9		%		70-130	12-NOV-20
Silver (Ag)-Total			105.7		%		70-130	12-NOV-20
Sodium (Na)-Total			N/A	MS-B	%		-	12-NOV-20
Strontium (Sr)-Total			N/A	MS-B	%		-	12-NOV-20
Sulfur (S)-Total			115.7		%		70-130	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-4 MS		**L2526849-2**						
Tellurium (Te)-Total			102.1		%		70-130	12-NOV-20
Thallium (Tl)-Total			101.3		%		70-130	12-NOV-20
Thorium (Th)-Total			109.6		%		70-130	12-NOV-20
Tin (Sn)-Total			89.1		%		70-130	12-NOV-20
Titanium (Ti)-Total			N/A	MS-B	%		-	12-NOV-20
Tungsten (W)-Total			113.4		%		70-130	12-NOV-20
Uranium (U)-Total			N/A	MS-B	%		-	12-NOV-20
Zinc (Zn)-Total			102.9		%		70-130	12-NOV-20
NH3-F-TB	Water							
Batch R5286560								
WG3443955-2 LCS								
Ammonia, Total (as N)			101.6		%		85-115	16-NOV-20
WG3443955-1 MB								
Ammonia, Total (as N)			0.0066	MB-LOR	mg/L		0.005	16-NOV-20
NO2-IC-N-TB	Water							
Batch R5283258								
WG3441190-3 DUP		**L2526849-4**						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	20	09-NOV-20
WG3441190-2 LCS								
Nitrite (as N)			98.4		%		90-110	09-NOV-20
WG3441821-2 LCS								
Nitrite (as N)			100.2		%		90-110	09-NOV-20
WG3441190-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	09-NOV-20
WG3441821-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	09-NOV-20
Batch R5284544								
WG3440971-2 LCS								
Nitrite (as N)			98.9		%		90-110	11-NOV-20
WG3441189-2 LCS								
Nitrite (as N)			90.6		%		90-110	11-NOV-20
WG3440971-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	11-NOV-20
WG3441189-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	11-NOV-20
NO3-IC-N-TB	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-N-TB	Water							
Batch R5283258								
WG3441190-3 DUP		**L2526849-4**						
Nitrate (as N)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	09-NOV-20
WG3441190-2 LCS								
Nitrate (as N)			104.7		%		90-110	09-NOV-20
WG3441821-2 LCS								
Nitrate (as N)			104.9		%		90-110	09-NOV-20
WG3441190-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	09-NOV-20
WG3441821-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	09-NOV-20
Batch R5284544								
WG3440971-2 LCS								
Nitrate (as N)			104.0		%		90-110	11-NOV-20
WG3441189-2 LCS								
Nitrate (as N)			96.1		%		90-110	11-NOV-20
WG3440971-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	11-NOV-20
WG3441189-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	11-NOV-20
P-T-COL-TB	Water							
Batch R5287388								
WG3444451-2 LCS								
Phosphorus (P)-Total			104.4		%		80-120	17-NOV-20
WG3444451-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	17-NOV-20
Batch R5290816								
WG3447338-2 LCS								
Phosphorus (P)-Total			102.3		%		80-120	19-NOV-20
WG3447338-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	19-NOV-20
WG3447338-4 MS		**L2526849-2**						
Phosphorus (P)-Total			N/A	MS-B	%		-	19-NOV-20
PH-TITR-TB	Water							
Batch R5282372								
WG3440895-2 LCS								
pH			6.99		pH		6.9-7.1	07-NOV-20
WG3440901-2 LCS								
pH			6.95		pH		6.9-7.1	07-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-TITR-TB	Water							
Batch R5282372								
WG3440910-2 LCS								
pH			6.93		pH		6.9-7.1	07-NOV-20
WG3441159-2 LCS								
pH			6.93		pH		6.9-7.1	07-NOV-20
WG3441165-2 LCS								
pH			6.92		pH		6.9-7.1	07-NOV-20
SIO2-COL-WP	Water							
Batch R5284398								
WG3443790-3 DUP		**L2526849-3**						
Silica, Reactive (as SiO2)		12.9	12.5		mg/L	3.9	20	12-NOV-20
WG3443790-2 LCS								
Silica, Reactive (as SiO2)			109.8		%		85-115	12-NOV-20
WG3443790-1 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	12-NOV-20
WG3443790-4 MS		**L2526849-3**						
Silica, Reactive (as SiO2)			N/A	MS-B	%		-	12-NOV-20
SO4-IC-N-TB	Water							
Batch R5283258								
WG3441190-3 DUP		**L2526849-4**						
Sulfate (SO4)		13.1	12.0		mg/L	8.6	20	09-NOV-20
WG3441190-2 LCS								
Sulfate (SO4)			109.1		%		90-110	09-NOV-20
WG3441821-2 LCS								
Sulfate (SO4)			104.5		%		90-110	09-NOV-20
WG3441190-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	09-NOV-20
WG3441821-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	09-NOV-20
Batch R5284544								
WG3440971-2 LCS								
Sulfate (SO4)			106.5		%		90-110	11-NOV-20
WG3441189-2 LCS								
Sulfate (SO4)			96.6		%		90-110	11-NOV-20
WG3440971-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	11-NOV-20
WG3441189-1 MB								
Sulfate (SO4)			<0.36		mg/L		0.36	11-NOV-20
TDS-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-TB	Water							
Batch R5282472								
WG3441177-2 LCS								
Total Dissolved Solids			97.3		%		85-115	07-NOV-20
WG3441177-1 MB								
Total Dissolved Solids			<10		mg/L		10	07-NOV-20
TSS-TB	Water							
Batch R5282436								
WG3441172-2 LCS								
Total Suspended Solids			87.8		%		85-115	07-NOV-20
WG3441172-1 MB								
Total Suspended Solids			<3.0		mg/L		3	07-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	01-NOV-20 11:51	06-NOV-20 16:30	4	5	days	EHTR
	2	01-NOV-20 14:09	07-NOV-20 11:00	4	6	days	EHTR
	3	01-NOV-20 15:15	07-NOV-20 11:00	4	6	days	EHTR
	4	02-NOV-20 11:57	07-NOV-20 11:00	4	5	days	EHTR
Leachable Anions & Nutrients							
Nitrate in Water by IC							
	1	01-NOV-20 11:51	11-NOV-20 17:16	7	10	days	EHT
	2	01-NOV-20 14:09	11-NOV-20 17:16	7	10	days	EHT
	3	01-NOV-20 15:15	11-NOV-20 17:16	7	10	days	EHT
Nitrite in Water by IC							
	1	01-NOV-20 11:51	11-NOV-20 17:16	7	10	days	EHT
	2	01-NOV-20 14:09	11-NOV-20 17:16	7	10	days	EHT
	3	01-NOV-20 15:15	11-NOV-20 17:16	7	10	days	EHT

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2526849 were received on 06-NOV-20 13:03.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2526849-COFC

COC Number: 17 -

Page 1 of 1

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☐ PDF ☐ EXCEL ☐ EDD (DIGITAL)

Quality Control (QC) Report with Report ☐ YES ☐ NO

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1: dmchaina@firstmininggold.com

Email 2: shila@firstmininggold.com

Email 3: shaun@firstmininggold.com

Invoice Distribution

Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accountspayable@firstmininggold.com

Email 2: dmchaina@firstmininggold.com

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☐ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	20864 / Q64154	AFE/Cost Center:	PO#
Job #:	Springpole Pump Test - Groundwater	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:	First Mining Gold Project	Location:	
ALS Lab Work Order # (lab use only):	L2526849	ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity	Dissolved Metals, Total Metals	Dissolved Mercury	DOC, H, Hardness, NO2, NO3, pH, SO4	TDS	Total Cyanide	Total Phosphorus, TSS	Reactive Silica	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	SP-GW-FBH-01-D	1-Nov-20	11:15	Groundwater	7	X	X	X	X	X	X	X	X		
	SP-GW-FBH-11-D	1-Nov-20	14:09	Groundwater	7	X	X	X	X	X	X	X	X		
	SP-GW-FBH-03-D	1-Nov-20	15:15	Groundwater	7	X	X	X	X	X	X	X	X		
	SP-GW-FBH-04-D	2-Nov-20	11:57	Groundwater	7	X	X	X	X	X	X	X	X		
	SP-GW-FBH-14-D	2-Nov-20	14:32	Groundwater	7	X	X	X	X	X	X	X	X		
	SP-GW-FBH-09-R1-D	3-Nov-20	10:02	Groundwater	7	X	X	X	X	X	X	X	X		
	SP-GW-FBH-07-R1-D	3-Nov-20	10:49	Groundwater	7	X	X	X	X	X	X	X	X		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☑

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
4.9							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by: SD	Date: Nov 6/2020	Time: 1:03	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 06- NOV- 20
Report Date: 08- DEC- 20 09:20 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2526858

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - CHLORIDE
C of C Numbers:
Legal Site Desc:



Christine Paradis
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526858-1 3134-AQ-SPW20-001-201030 Sampled By: Client on 30-OCT-20 @ 14:17 Matrix: Groundwater **Anions and Nutrients**							
Chloride (Cl)	36.6		0.20	mg/L		18-NOV-20	R5293367
L2526858-2 3134-AQ-SPW20-001-201031 Sampled By: Client on 31-OCT-20 @ 11:22 Matrix: Groundwater **Anions and Nutrients**							
Chloride (Cl)	37.0		0.20	mg/L		18-NOV-20	R5293367
L2526858-3 3134-AQ-SPW20-001-201101 Sampled By: Client on 01-NOV-20 @ 15:38 Matrix: Groundwater **Anions and Nutrients**							
Chloride (Cl)	38.8		0.20	mg/L		18-NOV-20	R5293367
L2526858-4 3134-AQ-SPW20-001-201102 Sampled By: Client on 02-NOV-20 @ 15:24 Matrix: Groundwater **Anions and Nutrients**							
Chloride (Cl)	7.99		0.10	mg/L		18-NOV-20	R5293367
L2526858-5 3134-AQ-SPW20-001-201103 Sampled By: Client on 03-NOV-20 @ 15:08 Matrix: Groundwater **Anions and Nutrients**							
Chloride (Cl)	40.8		0.20	mg/L		18-NOV-20	R5293367

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
CL-L-IC-N-WP	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-WP	Water							
Batch R5293367								
WG3447441-6 LCS								
Chloride (Cl)			101.4		%		90-110	18-NOV-20
WG3447441-5 MB								
Chloride (Cl)			<0.10		mg/L		0.1	18-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2526858-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution			
Select Report Format:	☑ PDF	☑ EXCEL	☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES	☐ NO	
☐ Compare Results to Criteria on Report - provide details below if box checked			
Select Distribution:	☑ EMAIL	☐ MAIL	☐ FAX
Email 1	dmchaina@firstmininggold.com		
Email 2	shaun@firstmininggold.com / shila@firstmininggold.com		
Email 3	john_ffc@nfld.net / eunjeong_ffc@nfld.net		

Invoice Distribution			
Select Invoice Distribution:	☑ EMAIL	☐ MAIL	☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com		
Email 2	dmchaina@firstmininggold.com		

Project Information	
ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test - Chloride
PO / AFE:	
LSD:	First Mining Gold Project
ALS Lab Work Order # (lab use only):	L2526858

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact:	Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): ☐ 4 day [P4-20%] ☐ 3 day [P3-25%] ☐ 2 day [P2-50%]

EMERGENCY: ☐ 1 Business day [E - 100%] ☐ Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)]

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Chloride	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-AQ-SPW20-001-201030	30-Oct-20	14:17	Groundwater	1	X		
	3134-AQ-SPW20-001-201031	31-Oct-20	11:22	Groundwater	1	X		
	3134-AQ-SPW20-001-201101	1-Nov-20	15:38	Groundwater	1	X		
	3134-AQ-SPW20-001-201102	2-Nov-20	15:24	Groundwater	1	X		
	3134-AQ-SPW20-001-201103	3-Nov-20	15:08	Groundwater	1	X		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☑

Ice Packs ☑ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
4.9							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by: SD	Date: 03 NOV 2020	Time: 1:03	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2015 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any Water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 06- NOV- 20
Report Date: 08- DEC- 20 08:48 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2526861

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - GROUNDWATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project



Christine Paradis
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526861-1 3134-AQ-SPW20-001-201104 Sampled By: Client on 04-NOV-20 @ 09:19 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	1040		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	480		0.50	mg/L		13-NOV-20	
pH	7.97		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	<3.0		3.0	mg/L		09-NOV-20	R5283221
Total Dissolved Solids	741		20	mg/L		09-NOV-20	R5283291
Anions and Nutrients							
Acidity (as CaCO3)	7.9		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	242		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.366		0.0050	mg/L	12-NOV-20	16-NOV-20	R5286560
Bromide (Br)	0.72		0.10	mg/L	06-NOV-20	11-NOV-20	R5284544
Chloride (Cl)	37.2		0.10	mg/L	06-NOV-20	11-NOV-20	R5284544
Fluoride (F)	0.173		0.020	mg/L	06-NOV-20	11-NOV-20	R5284544
Nitrate (as N)	<0.020		0.020	mg/L	06-NOV-20	11-NOV-20	R5284544
Nitrite (as N)	<0.010		0.010	mg/L	06-NOV-20	11-NOV-20	R5284544
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	06-NOV-20	09-NOV-20	R5283229
Phosphorus (P)-Total	0.0052		0.0030	mg/L	17-NOV-20	17-NOV-20	R5287388
Sulfate (SO4)	266		0.30	mg/L	06-NOV-20	11-NOV-20	R5284544
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				04-NOV-20	10-NOV-20	R5283745
Dissolved Organic Carbon	7.95		0.50	mg/L	04-NOV-20	16-NOV-20	R5286595
Total Metals							
Aluminum (Al)-Total	0.0109		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	0.00023		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.00434		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.0973		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	0.031		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	170		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	0.000450		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.00044		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	0.00015		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	1.56		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	0.000220		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.0024		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	17.5		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	0.503		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.00231		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	0.00092		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	<0.050		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526861-1 3134-AQ-SPW20-001-201104 Sampled By: Client on 04-NOV-20 @ 09:19 Matrix: Groundwater							
Total Metals							
Potassium (K)-Total	2.25		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.00290		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.000094		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	6.51		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	22.6		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	4.35		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	105		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	0.00028		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	0.00035		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	0.00453		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.000483		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	0.00165		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.0038		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	0.00396		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0097		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Antimony (Sb)-Dissolved	0.00023		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00421		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.0957		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Beryllium (Be)-Dissolved	0.00013		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Boron (B)-Dissolved	0.029		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Calcium (Ca)-Dissolved	163		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Cesium (Cs)-Dissolved	0.000432		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00041		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cobalt (Co)-Dissolved	0.00014		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Iron (Fe)-Dissolved	1.52		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Lead (Pb)-Dissolved	0.000205		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Lithium (Li)-Dissolved	0.0028		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	17.5		0.0050	mg/L	12-NOV-20	12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.484		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.00213		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526861-1 3134-AQ-SPW20-001-201104 Sampled By: Client on 04-NOV-20 @ 09:19 Matrix: Groundwater							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00086		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Potassium (K)-Dissolved	2.28		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00288		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000089		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silicon (Si)-Dissolved	6.28		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Sodium (Na)-Dissolved	21.5		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Strontium (Sr)-Dissolved	4.22		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Sulfur (S)-Dissolved	94.3		0.50	mg/L	12-NOV-20	12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Titanium (Ti)-Dissolved	0.00038		0.00030	mg/L	12-NOV-20	12-NOV-20	R5284941
Tungsten (W)-Dissolved	0.00450		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Uranium (U)-Dissolved	0.000454		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Vanadium (V)-Dissolved	0.00144		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Zinc (Zn)-Dissolved	0.0044		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	0.00373		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050	RRR	0.00050	mg/L		18-NOV-20	R5287342
Report Remarks : Cr6: Sample was lab-filtered. Parameter exceeded hold time prior to analyis.							
L2526861-2 3134-AQ-SMW20-002-201104 Sampled By: Client on 04-NOV-20 @ 09:29 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	66.6		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	32.6		0.50	mg/L		13-NOV-20	
pH	7.48		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	<3.0		3.0	mg/L		09-NOV-20	R5283221
Total Dissolved Solids	49		13	mg/L		09-NOV-20	R5283291
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	31.9		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.103		0.0050	mg/L	12-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L	06-NOV-20	11-NOV-20	R5284544
Chloride (Cl)	0.39		0.10	mg/L	06-NOV-20	11-NOV-20	R5284544
Fluoride (F)	0.026		0.020	mg/L	06-NOV-20	11-NOV-20	R5284544
Nitrate (as N)	0.027		0.020	mg/L	06-NOV-20	11-NOV-20	R5284544
Nitrite (as N)	<0.010		0.010	mg/L	06-NOV-20	11-NOV-20	R5284544
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	06-NOV-20	09-NOV-20	R5283229

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526861-2 3134-AQ-SMW20-002-201104 Sampled By: Client on 04-NOV-20 @ 09:29 Matrix: Groundwater							
Anions and Nutrients							
Phosphorus (P)-Total	0.0115		0.0030	mg/L	17-NOV-20	17-NOV-20	R5287388
Sulfate (SO4)	2.22		0.30	mg/L	06-NOV-20	11-NOV-20	R5284544
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				04-NOV-20	10-NOV-20	R5283745
Dissolved Organic Carbon	8.08		0.50	mg/L	04-NOV-20	16-NOV-20	R5286595
Total Metals							
Aluminum (Al)-Total	0.0084		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.00058		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.00764		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	<0.010		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	10.8		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.00016		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.00078		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	0.046		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	<0.0010		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	1.52		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	0.00804		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.000120		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	<0.050		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	0.679		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.00175		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.000075		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	1.19		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	0.771		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.0273		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	<0.50		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526861-2 3134-AQ-SMW20-002-201104 Sampled By: Client on 04-NOV-20 @ 09:29 Matrix: Groundwater							
Total Metals							
Uranium (U)-Total	0.000014		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0027		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00054		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.00715		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Boron (B)-Dissolved	<0.010		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Calcium (Ca)-Dissolved	10.6		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00012		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00066		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Iron (Fe)-Dissolved	0.015		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	1.51		0.0050	mg/L	12-NOV-20	12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.00155		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.000099		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Potassium (K)-Dissolved	0.665		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00164		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000093		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silicon (Si)-Dissolved	1.15		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Sodium (Na)-Dissolved	0.756		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.0267		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	12-NOV-20	12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526861-2 3134-AQ-SMW20-002-201104 Sampled By: Client on 04-NOV-20 @ 09:29 Matrix: Groundwater							
Dissolved Metals							
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	12-NOV-20	12-NOV-20	R5284941
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Uranium (U)-Dissolved	0.000012		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		12-NOV-20	R5284783

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Silicon (Si)-Total	B	L2526861-1, -2
Method Blank	Ammonia, Total (as N)	MB-LOR	L2526861-1, -2
Laboratory Control Sample	Iron (Fe)-Dissolved	MES	L2526861-1, -2
Laboratory Control Sample	Iron (Fe)-Total	MES	L2526861-1, -2
Matrix Spike	Dissolved Organic Carbon	MS-B	L2526861-1, -2
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2526861-1, -2
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2526861-1, -2
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2526861-1, -2
Matrix Spike	Potassium (K)-Dissolved	MS-B	L2526861-1, -2
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2526861-1, -2
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2526861-1, -2
Matrix Spike	Ammonia, Total (as N)	MS-B	L2526861-1, -2
Matrix Spike	Sulfate (SO4)	MS-B	L2526861-1, -2

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRR	Refer to Report Remarks for issues regarding this analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION

Reference Information

HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2526861 Report Date: 08-DEC-20

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5282559								
WG3440914-2 LCS								
Acidity (as CaCO3)			101.2		%		85-115	08-NOV-20
WG3440914-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	08-NOV-20
ALK-TITR-TB	Water							
Batch R5282372								
WG3440910-2 LCS								
Alkalinity, Total (as CaCO3)			102.9		%		85-115	07-NOV-20
WG3440910-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	07-NOV-20
BR-IC-N-TB	Water							
Batch R5284544								
WG3440971-2 LCS								
Bromide (Br)			95.3		%		85-115	11-NOV-20
WG3440971-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	11-NOV-20
CL-L-IC-N-TB	Water							
Batch R5284544								
WG3440971-2 LCS								
Chloride (Cl)			102.8		%		90-110	11-NOV-20
WG3440971-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	11-NOV-20
CR-CR6-DIS-WT	Water							
Batch R5284783								
WG3443805-2 LCS								
Chromium (VI)-Dissolved			99.2		%		70-130	12-NOV-20
WG3443805-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	12-NOV-20
Batch R5287342								
WG3447242-2 LCS								
Chromium (VI)-Dissolved			98.9		%		70-130	18-NOV-20
WG3447242-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	18-NOV-20
DOC-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-WT	Water							
Batch R5286595								
WG3443023-2 LCS								
Dissolved Organic Carbon			96.7		%		80-120	16-NOV-20
WG3443023-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	16-NOV-20
EC-TITR-TB	Water							
Batch R5282372								
WG3440910-2 LCS								
Conductivity (EC)			98.9		%		90-110	07-NOV-20
WG3440910-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	07-NOV-20
F-IC-N-TB	Water							
Batch R5284544								
WG3440971-2 LCS								
Fluoride (F)			102.2		%		90-110	11-NOV-20
WG3440971-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	11-NOV-20
HG-D-CVAA-WT	Water							
Batch R5284332								
WG3443473-2 LCS								
Mercury (Hg)-Dissolved			101.0		%		80-120	12-NOV-20
WG3443473-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	12-NOV-20
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-14 LCS								
Aluminum (Al)-Dissolved			103.5		%		80-120	12-NOV-20
Antimony (Sb)-Dissolved			100.9		%		80-120	12-NOV-20
Arsenic (As)-Dissolved			106.1		%		80-120	12-NOV-20
Barium (Ba)-Dissolved			100.7		%		80-120	12-NOV-20
Beryllium (Be)-Dissolved			94.4		%		80-120	12-NOV-20
Bismuth (Bi)-Dissolved			104.3		%		80-120	12-NOV-20
Boron (B)-Dissolved			92.0		%		80-120	12-NOV-20
Cadmium (Cd)-Dissolved			102.9		%		80-120	12-NOV-20
Calcium (Ca)-Dissolved			101.8		%		80-120	12-NOV-20
Cesium (Cs)-Dissolved			106.1		%		80-120	12-NOV-20
Chromium (Cr)-Dissolved			100.7		%		80-120	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-14 LCS								
Cobalt (Co)-Dissolved			102.0		%		80-120	12-NOV-20
Copper (Cu)-Dissolved			101.0		%		80-120	12-NOV-20
Iron (Fe)-Dissolved			123.0	MES	%		80-120	12-NOV-20
Lead (Pb)-Dissolved			101.7		%		80-120	12-NOV-20
Lithium (Li)-Dissolved			97.4		%		80-120	12-NOV-20
Magnesium (Mg)-Dissolved			101.8		%		80-120	12-NOV-20
Manganese (Mn)-Dissolved			101.2		%		80-120	12-NOV-20
Molybdenum (Mo)-Dissolved			102.1		%		80-120	12-NOV-20
Nickel (Ni)-Dissolved			100.6		%		80-120	12-NOV-20
Phosphorus (P)-Dissolved			109.2		%		80-120	12-NOV-20
Potassium (K)-Dissolved			102.2		%		80-120	12-NOV-20
Rubidium (Rb)-Dissolved			101.0		%		80-120	12-NOV-20
Selenium (Se)-Dissolved			107.7		%		80-120	12-NOV-20
Silicon (Si)-Dissolved			102.1		%		80-120	12-NOV-20
Silver (Ag)-Dissolved			101.8		%		80-120	12-NOV-20
Sodium (Na)-Dissolved			100.7		%		80-120	12-NOV-20
Strontium (Sr)-Dissolved			106.9		%		80-120	12-NOV-20
Sulfur (S)-Dissolved			94.7		%		80-120	12-NOV-20
Tellurium (Te)-Dissolved			100.3		%		80-120	12-NOV-20
Thallium (Tl)-Dissolved			101.2		%		80-120	12-NOV-20
Thorium (Th)-Dissolved			107.8		%		80-120	12-NOV-20
Tin (Sn)-Dissolved			101.6		%		80-120	12-NOV-20
Titanium (Ti)-Dissolved			96.7		%		80-120	12-NOV-20
Tungsten (W)-Dissolved			101.1		%		80-120	12-NOV-20
Uranium (U)-Dissolved			109.8		%		80-120	12-NOV-20
Vanadium (V)-Dissolved			103.2		%		80-120	12-NOV-20
Zinc (Zn)-Dissolved			96.6		%		80-120	12-NOV-20
Zirconium (Zr)-Dissolved			106.7		%		80-120	12-NOV-20
WG3443590-13 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-13 MB								
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	12-NOV-20
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	12-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	12-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	12-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	12-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	12-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	12-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	12-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-6 LCS								
Aluminum (Al)-Total			102.8		%		80-120	12-NOV-20
Antimony (Sb)-Total			105.0		%		80-120	12-NOV-20
Arsenic (As)-Total			106.9		%		80-120	12-NOV-20
Barium (Ba)-Total			103.2		%		80-120	12-NOV-20
Beryllium (Be)-Total			92.6		%		80-120	12-NOV-20
Bismuth (Bi)-Total			99.5		%		80-120	12-NOV-20
Boron (B)-Total			92.4		%		80-120	12-NOV-20
Cadmium (Cd)-Total			104.1		%		80-120	12-NOV-20
Calcium (Ca)-Total			102.4		%		80-120	12-NOV-20
Cesium (Cs)-Total			107.0		%		80-120	12-NOV-20
Chromium (Cr)-Total			102.7		%		80-120	12-NOV-20
Cobalt (Co)-Total			103.2		%		80-120	12-NOV-20
Copper (Cu)-Total			104.1		%		80-120	12-NOV-20
Iron (Fe)-Total			127.5	MES	%		80-120	12-NOV-20
Lead (Pb)-Total			98.7		%		80-120	12-NOV-20
Lithium (Li)-Total			94.6		%		80-120	12-NOV-20
Magnesium (Mg)-Total			102.1		%		80-120	12-NOV-20
Manganese (Mn)-Total			103.5		%		80-120	12-NOV-20
Molybdenum (Mo)-Total			104.5		%		80-120	12-NOV-20
Nickel (Ni)-Total			102.5		%		80-120	12-NOV-20
Phosphorus (P)-Total			106.2		%		80-120	12-NOV-20
Potassium (K)-Total			106.9		%		80-120	12-NOV-20
Rubidium (Rb)-Total			103.9		%		80-120	12-NOV-20
Selenium (Se)-Total			104.0		%		80-120	12-NOV-20
Silicon (Si)-Total			105.7		%		80-120	12-NOV-20
Silver (Ag)-Total			103.2		%		80-120	12-NOV-20
Sodium (Na)-Total			102.2		%		80-120	12-NOV-20
Strontium (Sr)-Total			107.0		%		80-120	12-NOV-20
Sulfur (S)-Total			88.8		%		80-120	12-NOV-20
Tellurium (Te)-Total			101.6		%		80-120	12-NOV-20
Thallium (Tl)-Total			97.4		%		80-120	12-NOV-20
Thorium (Th)-Total			104.9		%		80-120	12-NOV-20
Tin (Sn)-Total			102.8		%		80-120	12-NOV-20
Titanium (Ti)-Total			102.2		%		80-120	12-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-6 LCS								
Tungsten (W)-Total			100.8		%		80-120	12-NOV-20
Uranium (U)-Total			107.7		%		80-120	12-NOV-20
Vanadium (V)-Total			103.5		%		80-120	12-NOV-20
Zinc (Zn)-Total			99.8		%		80-120	12-NOV-20
Zirconium (Zr)-Total			106.8		%		80-120	12-NOV-20
WG3443089-5 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	12-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	12-NOV-20
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	12-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	12-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	12-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	12-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	12-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	12-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	12-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Silicon (Si)-Total			0.12	B	mg/L		0.1	12-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	12-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	12-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-5 MB								
Sulfur (S)-Total			<0.50		mg/L		0.5	12-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	12-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	12-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	12-NOV-20
NH3-F-TB	Water							
Batch R5286560								
WG3443955-2 LCS								
Ammonia, Total (as N)			101.6		%		85-115	16-NOV-20
WG3443955-1 MB								
Ammonia, Total (as N)			0.0066	MB-LOR	mg/L		0.005	16-NOV-20
NO2-IC-N-TB	Water							
Batch R5284544								
WG3440971-2 LCS								
Nitrite (as N)			98.9		%		90-110	11-NOV-20
WG3440971-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	11-NOV-20
NO3-IC-N-TB	Water							
Batch R5284544								
WG3440971-2 LCS								
Nitrate (as N)			104.0		%		90-110	11-NOV-20
WG3440971-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	11-NOV-20
P-T-COL-TB	Water							
Batch R5287388								
WG3444451-2 LCS								
Phosphorus (P)-Total			104.4		%		80-120	17-NOV-20
WG3444451-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	17-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-TITR-TB	Water							
Batch R5282372								
WG3440910-2 LCS								
pH			6.93		pH		6.9-7.1	07-NOV-20
PO4-DO-COL-TB	Water							
Batch R5283229								
WG3440941-2 LCS								
Orthophosphate-Dissolved (as P)			99.96		%		80-120	09-NOV-20
WG3440941-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	09-NOV-20
SO4-IC-N-TB	Water							
Batch R5284544								
WG3440971-2 LCS								
Sulfate (SO4)			106.5		%		90-110	11-NOV-20
WG3440971-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	11-NOV-20
TDS-TB	Water							
Batch R5283291								
WG3441653-2 LCS								
Total Dissolved Solids			97.5		%		85-115	09-NOV-20
WG3441653-1 MB								
Total Dissolved Solids			<10		mg/L		10	09-NOV-20
TSS-TB	Water							
Batch R5283221								
WG3441655-2 LCS								
Total Suspended Solids			91.0		%		85-115	09-NOV-20
WG3441655-1 MB								
Total Suspended Solids			<3.0		mg/L		3	09-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2526861-COFC

COC Number: 17 -

SD

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9855
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shaun@firstmininggold.com / shila@firstmininggold.
Email 3	john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Project Information	
ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test - Groundwater
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2526861

ALS Contact: **Sampler:**

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	F, NO2,NO3, pH, SO4, PO4	TDS, TSS	DOC	Total Ammonia, Total Phosphorus	Total Metals	Dissolved Metals, Hardness	Dissolved Mercury	Dissolved CR6	Dissolved Inorgainc Carbon (DIC)	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
						F/P	P	P	F/P	F/P	F/P						
	3134-AQ-SPW20-001-201104	4-Nov-20	9:19	Groundwater	7	X	X	X	X	X	X	X	X	X			
	3134-AQ-SMW20-002-201104	4-Nov-20	9:29	Groundwater	7	X	X	X	X	X	X	X	X	X			

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐	SIF Observations	Yes ☐	No	☐
Ice Packs	☑ Ice Cubes ☐	Custody seal intact	Yes ☐	No	☐
Cooling Initiated	☑				

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
4.9							

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by: SD	Date: Nov 6 / 2020	Time: 1:03

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Client: Gold Canyon

L2526861-COFC

Sample Layout Verification:	Verified By	Date	Time	S. Enter
Labels Verification:	Verified By			Do any samples require prep? NO P F/P

		Sample #:																
1L	Plastic																	
500mL	Plastic																	
250mL	Plastic																	
145mL	Plastic																	
60mL	Plastic																	
Micro																		
Toxicity Pail																		
1L	Glass																	
500mL	Glass																	
250mL	Glass																	
120mL	Glass																	
60mL	Glass																	
40mL	Vial (Glass)																	
40mL	Methanol Vials																	
Soil Jar (120, 250 or 500mL)																		
Other:																		
Other:																		
Total Number of Bottles																		

Trip/Travel/Field Blank Information

Solids Batch#:	Metals Batch#:	T:	D:
Routine Batch#:	Mercury Batch#:	T:	D:
BOD Batch#:	Cyanide Batch#:	T:	D:
Nutrients Batch#:	OGG Batch#:		
DOC/Carbon Batch#:	Phenols Batch#:		
VOC Batch#:			
Other:			

COOLER TRACKING

EPP		Coleman	
Small		Micro (5QT)	
Med		Sm(9QT)	
Lrg		Med(16QT)	
Micro Box		Lrg(28QT)	
		Lrg(48QT)	

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 06- NOV- 20
Report Date: 07- DEC- 20 12:32 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2526890

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - SURFACE WATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project



Christine Paradis
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526890-1 3134-AQ-LAKE1-201104 Sampled By: Client on 04-NOV-20 @ 10:26 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	66.1		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	32.4		0.50	mg/L		13-NOV-20	
pH	7.44		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	<3.0		3.0	mg/L		10-NOV-20	R5283780
Total Dissolved Solids	41		13	mg/L		10-NOV-20	R5283799
Anions and Nutrients							
Acidity (as CaCO3)	2.0		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	31.9		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	2.20		0.50	mg/L	18-NOV-20	19-NOV-20	R5289379
Bromide (Br)	<0.10		0.10	mg/L	07-NOV-20	11-NOV-20	R5284544
Chloride (Cl)	0.58		0.10	mg/L	07-NOV-20	11-NOV-20	R5284544
Fluoride (F)	0.031		0.020	mg/L	07-NOV-20	11-NOV-20	R5284544
Nitrate (as N)	0.040		0.020	mg/L	07-NOV-20	11-NOV-20	R5284544
Nitrite (as N)	<0.010		0.010	mg/L	07-NOV-20	11-NOV-20	R5284544
Total Kjeldahl Nitrogen	2.83		0.050	mg/L	10-NOV-20	13-NOV-20	R5285197
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	07-NOV-20	09-NOV-20	R5283229
Phosphorus (P)-Total	0.0111		0.0030	mg/L	17-NOV-20	17-NOV-20	R5287388
Sulfate (SO4)	1.94		0.30	mg/L	07-NOV-20	11-NOV-20	R5284544
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				04-NOV-20	17-NOV-20	R5287135
Dissolved Organic Carbon	7.25		0.50	mg/L	04-NOV-20	18-NOV-20	R5288318
Total Organic Carbon	9.40		0.50	mg/L		16-NOV-20	R5286572
Total Metals							
Aluminum (Al)-Total	0.0097		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.00060		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.00771		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	<0.010		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	10.9		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.00071		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	0.049		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	<0.0010		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	1.54		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	0.00805		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		19-NOV-20	R5289000

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526890-1 3134-AQ-LAKE1-201104 Sampled By: Client on 04-NOV-20 @ 10:26 Matrix: Surface Water							
Total Metals							
Molybdenum (Mo)-Total	0.000108		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	<0.050		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	0.690		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.00176		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.000111		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	1.20		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	0.773		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.0273		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	<0.50		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	0.00037		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.000013		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0021		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00053		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.00717		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Boron (B)-Dissolved	<0.010		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Calcium (Ca)-Dissolved	10.5		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00014		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00062		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Iron (Fe)-Dissolved	0.014		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	1.52		0.0050	mg/L	12-NOV-20	12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526890-1 3134-AQ-LAKE1-201104 Sampled By: Client on 04-NOV-20 @ 10:26 Matrix: Surface Water							
Dissolved Metals							
Manganese (Mn)-Dissolved	0.00155		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.000101		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Potassium (K)-Dissolved	0.678		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00168		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000095		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silicon (Si)-Dissolved	1.13		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Sodium (Na)-Dissolved	0.764		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.0261		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	12-NOV-20	12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	12-NOV-20	12-NOV-20	R5284941
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Uranium (U)-Dissolved	0.000012		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		12-NOV-20	R5284784
Chromium, Hexavalent	<0.50		0.50	ug/L		13-NOV-20	R5286040
Aggregate Organics							
Chemical Oxygen Demand	29		20	mg/L	10-NOV-20	13-NOV-20	R5285140
L2526890-2 3134-AQ-SMW20-001-101104 Sampled By: Client on 04-NOV-20 @ 10:31 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	1040		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	479		0.50	mg/L		13-NOV-20	
pH	7.93		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	<3.0		3.0	mg/L		10-NOV-20	R5283780
Total Dissolved Solids	731		20	mg/L		10-NOV-20	R5283799
Anions and Nutrients							
Acidity (as CaCO3)	4.8		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	243		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	0.320		0.0050	mg/L	10-NOV-20	16-NOV-20	R5286560
Bromide (Br)	0.78		0.10	mg/L	07-NOV-20	11-NOV-20	R5284544

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526890-2 3134-AQ-SMW20-001-101104 Sampled By: Client on 04-NOV-20 @ 10:31 Matrix: Surface Water							
Anions and Nutrients							
Chloride (Cl)	37.0		0.10	mg/L	07-NOV-20	11-NOV-20	R5284544
Fluoride (F)	0.179		0.020	mg/L	07-NOV-20	11-NOV-20	R5284544
Nitrate (as N)	<0.020		0.020	mg/L	07-NOV-20	11-NOV-20	R5284544
Nitrite (as N)	<0.010		0.010	mg/L	07-NOV-20	11-NOV-20	R5284544
Total Kjeldahl Nitrogen	0.567		0.050	mg/L	10-NOV-20	13-NOV-20	R5285197
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	07-NOV-20	09-NOV-20	R5283229
Phosphorus (P)-Total	0.0063		0.0030	mg/L	17-NOV-20	17-NOV-20	R5287388
Sulfate (SO4)	268		0.30	mg/L	07-NOV-20	11-NOV-20	R5284544
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				04-NOV-20	17-NOV-20	R5287135
Dissolved Organic Carbon	8.19		0.50	mg/L	04-NOV-20	18-NOV-20	R5288318
Total Organic Carbon	8.40		0.50	mg/L		16-NOV-20	R5286572
Total Metals							
Aluminum (Al)-Total	0.0109		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	0.00023		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.00448		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.0989		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	0.00011		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	0.031		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	168		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	0.000449		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.00050		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	0.00015		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	1.59		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	0.000241		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.0025		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	17.8		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	0.500		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		13-NOV-20	R5285033
Molybdenum (Mo)-Total	0.00233		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	0.00097		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	<0.050		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	2.36		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.00297		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.000070		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	6.51		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	23.0		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526890-2 3134-AQ-SMW20-001-101104 Sampled By: Client on 04-NOV-20 @ 10:31 Matrix: Surface Water							
Total Metals							
Strontium (Sr)-Total	4.32		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	105		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	0.00023		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	0.00039		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	0.00465		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.000481		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	0.00169		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.0042		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	0.00400		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0092		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Antimony (Sb)-Dissolved	0.00021		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00429		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.0959		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Beryllium (Be)-Dissolved	0.00012		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Boron (B)-Dissolved	0.029		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Calcium (Ca)-Dissolved	163		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Cesium (Cs)-Dissolved	0.000434		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00039		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cobalt (Co)-Dissolved	0.00014		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Iron (Fe)-Dissolved	1.49		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Lead (Pb)-Dissolved	0.000197		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Lithium (Li)-Dissolved	0.0026		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	17.5		0.0050	mg/L	12-NOV-20	12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.481		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.00216		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Nickel (Ni)-Dissolved	0.00088		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Potassium (K)-Dissolved	2.20		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00288		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000072		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silicon (Si)-Dissolved	6.22		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526890-2 3134-AQ-SMW20-001-101104 Sampled By: Client on 04-NOV-20 @ 10:31 Matrix: Surface Water							
Dissolved Metals							
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Sodium (Na)-Dissolved	21.4		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Strontium (Sr)-Dissolved	4.15		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Sulfur (S)-Dissolved	94.1		0.50	mg/L	12-NOV-20	12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	12-NOV-20	12-NOV-20	R5284941
Tungsten (W)-Dissolved	0.00427		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Uranium (U)-Dissolved	0.000454		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Vanadium (V)-Dissolved	0.00144		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Zinc (Zn)-Dissolved	0.0047		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	0.00366		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		12-NOV-20	R5284784
Chromium, Hexavalent	<0.50		0.50	ug/L		13-NOV-20	R5286040
Aggregate Organics							
Chemical Oxygen Demand	26		20	mg/L	10-NOV-20	13-NOV-20	R5285140
L2526890-3 3134-AQ-LAKE2-201104 Sampled By: Client on 04-NOV-20 @ 10:37 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	65.9		1.0	uS/cm		07-NOV-20	R5282372
Hardness (as CaCO3)	32.2		0.50	mg/L		13-NOV-20	
pH	7.47		0.10	pH		07-NOV-20	R5282372
Total Suspended Solids	<3.0		3.0	mg/L		10-NOV-20	R5283780
Total Dissolved Solids	46		13	mg/L		10-NOV-20	R5283799
Anions and Nutrients							
Acidity (as CaCO3)	<2.0		2.0	mg/L		08-NOV-20	R5282559
Alkalinity, Total (as CaCO3)	31.3		2.0	mg/L		07-NOV-20	R5282372
Ammonia, Total (as N)	3.8		2.5	mg/L	10-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L	07-NOV-20	11-NOV-20	R5284544
Chloride (Cl)	0.41		0.10	mg/L	07-NOV-20	11-NOV-20	R5284544
Fluoride (F)	0.026		0.020	mg/L	07-NOV-20	11-NOV-20	R5284544
Nitrate (as N)	0.032		0.020	mg/L	07-NOV-20	11-NOV-20	R5284544
Nitrite (as N)	<0.010		0.010	mg/L	07-NOV-20	11-NOV-20	R5284544
Total Kjeldahl Nitrogen	3.85		0.050	mg/L	10-NOV-20	13-NOV-20	R5285197
Orthophosphate-Dissolved (as P)	0.0030		0.0030	mg/L	07-NOV-20	09-NOV-20	R5283229
Phosphorus (P)-Total	0.0119		0.0030	mg/L	17-NOV-20	17-NOV-20	R5287388
Sulfate (SO4)	2.38		0.30	mg/L	07-NOV-20	11-NOV-20	R5284544
Organic / Inorganic Carbon							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526890-3 3134-AQ-LAKE2-201104 Sampled By: Client on 04-NOV-20 @ 10:37 Matrix: Surface Water							
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				04-NOV-20	17-NOV-20	R5287135
Dissolved Organic Carbon	7.62		0.50	mg/L	04-NOV-20	18-NOV-20	R5288318
Total Organic Carbon	9.06		0.50	mg/L		16-NOV-20	R5286572
Total Metals							
Aluminum (Al)-Total	0.0065		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.00060		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.00761		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	<0.010		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	0.0000051		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	10.9		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.00071		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	0.039		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	<0.0010		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	1.52		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	0.00769		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		13-NOV-20	R5285033
Molybdenum (Mo)-Total	0.000119		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	<0.050		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	0.696		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.00169		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.000092		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	1.21		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	0.742		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.0271		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	<0.50		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.000011		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526890-3 3134-AQ-LAKE2-201104 Sampled By: Client on 04-NOV-20 @ 10:37 Matrix: Surface Water							
Total Metals							
Vanadium (V)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					12-NOV-20	R5284090
Dissolved Metals Filtration Location	FIELD					12-NOV-20	R5284796
Aluminum (Al)-Dissolved	0.0023		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Arsenic (As)-Dissolved	0.00051		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Barium (Ba)-Dissolved	0.00722		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Boron (B)-Dissolved	<0.010		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Calcium (Ca)-Dissolved	10.4		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Chromium (Cr)-Dissolved	0.00016		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Copper (Cu)-Dissolved	0.00062		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Iron (Fe)-Dissolved	0.012		0.010	mg/L	12-NOV-20	12-NOV-20	R5284941
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Magnesium (Mg)-Dissolved	1.49		0.0050	mg/L	12-NOV-20	12-NOV-20	R5284941
Manganese (Mn)-Dissolved	0.00099		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	12-NOV-20	12-NOV-20	R5284332
Molybdenum (Mo)-Dissolved	0.000099		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Potassium (K)-Dissolved	0.674		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Rubidium (Rb)-Dissolved	0.00167		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Selenium (Se)-Dissolved	0.000091		0.000050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silicon (Si)-Dissolved	1.14		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Sodium (Na)-Dissolved	0.724		0.050	mg/L	12-NOV-20	12-NOV-20	R5284941
Strontium (Sr)-Dissolved	0.0257		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	12-NOV-20	12-NOV-20	R5284941
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	12-NOV-20	12-NOV-20	R5284941

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2526890-3 3134-AQ-LAKE2-201104 Sampled By: Client on 04-NOV-20 @ 10:37 Matrix: Surface Water							
Dissolved Metals							
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	12-NOV-20	12-NOV-20	R5284941
Uranium (U)-Dissolved	<0.000010		0.000010	mg/L	12-NOV-20	12-NOV-20	R5284941
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	12-NOV-20	12-NOV-20	R5284941
Zinc (Zn)-Dissolved	0.0013		0.0010	mg/L	12-NOV-20	12-NOV-20	R5284941
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	12-NOV-20	12-NOV-20	R5284941
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		12-NOV-20	R5284784
Chromium, Hexavalent	<0.50		0.50	ug/L		13-NOV-20	R5286040
Aggregate Organics							
Chemical Oxygen Demand	27		20	mg/L	10-NOV-20	13-NOV-20	R5285140

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Silicon (Si)-Total	B	L2526890-1, -2, -3
Method Blank	Phosphorus (P)-Total	B	L2526890-1, -2, -3
Laboratory Control Sample	Iron (Fe)-Dissolved	MES	L2526890-1, -2, -3
Laboratory Control Sample	Iron (Fe)-Total	MES	L2526890-1, -2, -3
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L2526890-1, -2, -3
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2526890-1, -2, -3
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2526890-1, -2, -3
Matrix Spike	Potassium (K)-Dissolved	MS-B	L2526890-1, -2, -3
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2526890-1, -2, -3
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2526890-1, -2, -3
Matrix Spike	Ammonia, Total (as N)	MS-B	L2526890-2, -3
Matrix Spike	Ammonia, Total (as N)	MS-B	L2526890-1
Matrix Spike	Total Organic Carbon	MS-B	L2526890-1, -2, -3

Qualifiers for Individual Samples Listed:

Sample Numbe	Client ID	Qualifier	Description
L2526890-1	3134-AQ-LAKE1-201104	WGHT	WHGT: Water sample(s) for total mercury analysis was not submitted in glass or PTFE container with HCl preservative. Results may be biased low.

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-PWQO-IC-WT	Water	Chromium +6	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental

Reference Information

Protection Act (July 1, 2011).

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION

HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-T-CVAA-WT	Water	Total Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

Reference Information

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

TOC-WT	Water	Total Organic Carbon	APHA 5310B

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic cabon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5282559								
WG3441180-2 LCS								
Acidity (as CaCO3)			99.8		%		85-115	08-NOV-20
WG3441180-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	08-NOV-20
ALK-TITR-TB	Water							
Batch R5282372								
WG3441159-3 DUP		**L2526890-1**						
Alkalinity, Total (as CaCO3)		31.9	31.8		mg/L	0.3	20	07-NOV-20
WG3441159-2 LCS								
Alkalinity, Total (as CaCO3)			104.8		%		85-115	07-NOV-20
WG3441159-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	07-NOV-20
BR-IC-N-TB	Water							
Batch R5284544								
WG3441189-2 LCS								
Bromide (Br)			92.6		%		85-115	11-NOV-20
WG3441189-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	11-NOV-20
CL-L-IC-N-TB	Water							
Batch R5284544								
WG3441189-2 LCS								
Chloride (Cl)			93.6		%		90-110	11-NOV-20
WG3441189-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	11-NOV-20
COD-TB	Water							
Batch R5285140								
WG3442697-2 LCS								
Chemical Oxygen Demand			108.6		%		85-115	13-NOV-20
WG3442697-1 MB								
Chemical Oxygen Demand			<20		mg/L		20	13-NOV-20
CR-CR6-DIS-WT	Water							
Batch R5284784								
WG3443807-2 LCS								
Chromium (VI)-Dissolved			99.8		%		70-130	12-NOV-20
WG3443807-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	12-NOV-20
CR-CR6-PWQO-IC-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-PWQO-IC-WT	Water							
Batch R5286040								
WG3444646-2 LCS								
Chromium, Hexavalent			100.1		%		80-120	13-NOV-20
WG3444646-1 MB								
Chromium, Hexavalent			<0.50		ug/L		0.5	13-NOV-20
DOC-WT	Water							
Batch R5288318								
WG3446910-3 DUP		**L2526890-1**						
Dissolved Organic Carbon		7.25	7.65		mg/L	5.4	20	18-NOV-20
WG3446910-2 LCS								
Dissolved Organic Carbon			93.3		%		80-120	18-NOV-20
WG3446910-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	18-NOV-20
WG3446910-4 MS		**L2526890-1**						
Dissolved Organic Carbon			105.7		%		70-130	18-NOV-20
EC-TITR-TB	Water							
Batch R5282372								
WG3441159-3 DUP		**L2526890-1**						
Conductivity (EC)		66.1	66.0		uS/cm	0.2	10	07-NOV-20
WG3441159-2 LCS								
Conductivity (EC)			98.9		%		90-110	07-NOV-20
WG3441159-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	07-NOV-20
F-IC-N-TB	Water							
Batch R5284544								
WG3441189-2 LCS								
Fluoride (F)			92.5		%		90-110	11-NOV-20
WG3441189-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	11-NOV-20
HG-D-CVAA-WT	Water							
Batch R5284332								
WG3443473-2 LCS								
Mercury (Hg)-Dissolved			101.0		%		80-120	12-NOV-20
WG3443473-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	12-NOV-20
HG-T-CVAA-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAA-WT	Water							
Batch R5285033								
WG3443531-3 DUP		**L2526890-2**						
Mercury (Hg)-Total		<0.0000050	<0.000005C	RPD-NA	mg/L	N/A	20	13-NOV-20
WG3443531-2 LCS								
Mercury (Hg)-Total			108.0		%		80-120	13-NOV-20
WG3443531-1 MB								
Mercury (Hg)-Total			<0.000005C		mg/L		0.000005	13-NOV-20
WG3443531-4 MS		**L2526890-3**						
Mercury (Hg)-Total			126.6		%		70-130	13-NOV-20
Batch R5289000								
WG3447948-3 DUP		**L2526890-1**						
Mercury (Hg)-Total		<0.0000050	<0.000005C	RPD-NA	mg/L	N/A	20	19-NOV-20
WG3447948-2 LCS								
Mercury (Hg)-Total			107.0		%		80-120	19-NOV-20
WG3447948-1 MB								
Mercury (Hg)-Total			<0.000005C		mg/L		0.000005	19-NOV-20
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-14 LCS								
Aluminum (Al)-Dissolved			103.5		%		80-120	12-NOV-20
Antimony (Sb)-Dissolved			100.9		%		80-120	12-NOV-20
Arsenic (As)-Dissolved			106.1		%		80-120	12-NOV-20
Barium (Ba)-Dissolved			100.7		%		80-120	12-NOV-20
Beryllium (Be)-Dissolved			94.4		%		80-120	12-NOV-20
Bismuth (Bi)-Dissolved			104.3		%		80-120	12-NOV-20
Boron (B)-Dissolved			92.0		%		80-120	12-NOV-20
Cadmium (Cd)-Dissolved			102.9		%		80-120	12-NOV-20
Calcium (Ca)-Dissolved			101.8		%		80-120	12-NOV-20
Cesium (Cs)-Dissolved			106.1		%		80-120	12-NOV-20
Chromium (Cr)-Dissolved			100.7		%		80-120	12-NOV-20
Cobalt (Co)-Dissolved			102.0		%		80-120	12-NOV-20
Copper (Cu)-Dissolved			101.0		%		80-120	12-NOV-20
Iron (Fe)-Dissolved			123.0	MES	%		80-120	12-NOV-20
Lead (Pb)-Dissolved			101.7		%		80-120	12-NOV-20
Lithium (Li)-Dissolved			97.4		%		80-120	12-NOV-20
Magnesium (Mg)-Dissolved			101.8		%		80-120	12-NOV-20
Manganese (Mn)-Dissolved			101.2		%		80-120	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-14 LCS								
Molybdenum (Mo)-Dissolved			102.1		%		80-120	12-NOV-20
Nickel (Ni)-Dissolved			100.6		%		80-120	12-NOV-20
Phosphorus (P)-Dissolved			109.2		%		80-120	12-NOV-20
Potassium (K)-Dissolved			102.2		%		80-120	12-NOV-20
Rubidium (Rb)-Dissolved			101.0		%		80-120	12-NOV-20
Selenium (Se)-Dissolved			107.7		%		80-120	12-NOV-20
Silicon (Si)-Dissolved			102.1		%		80-120	12-NOV-20
Silver (Ag)-Dissolved			101.8		%		80-120	12-NOV-20
Sodium (Na)-Dissolved			100.7		%		80-120	12-NOV-20
Strontium (Sr)-Dissolved			106.9		%		80-120	12-NOV-20
Sulfur (S)-Dissolved			94.7		%		80-120	12-NOV-20
Tellurium (Te)-Dissolved			100.3		%		80-120	12-NOV-20
Thallium (Tl)-Dissolved			101.2		%		80-120	12-NOV-20
Thorium (Th)-Dissolved			107.8		%		80-120	12-NOV-20
Tin (Sn)-Dissolved			101.6		%		80-120	12-NOV-20
Titanium (Ti)-Dissolved			96.7		%		80-120	12-NOV-20
Tungsten (W)-Dissolved			101.1		%		80-120	12-NOV-20
Uranium (U)-Dissolved			109.8		%		80-120	12-NOV-20
Vanadium (V)-Dissolved			103.2		%		80-120	12-NOV-20
Zinc (Zn)-Dissolved			96.6		%		80-120	12-NOV-20
Zirconium (Zr)-Dissolved			106.7		%		80-120	12-NOV-20
WG3443590-13 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	12-NOV-20
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	12-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5284941								
WG3443590-13 MB								
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	12-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	12-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	12-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	12-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	12-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	12-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	12-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	12-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	12-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	12-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	12-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	12-NOV-20
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-6 LCS								
Aluminum (Al)-Total			102.8		%		80-120	12-NOV-20
Antimony (Sb)-Total			105.0		%		80-120	12-NOV-20
Arsenic (As)-Total			106.9		%		80-120	12-NOV-20
Barium (Ba)-Total			103.2		%		80-120	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-6 LCS								
Beryllium (Be)-Total			92.6		%		80-120	12-NOV-20
Bismuth (Bi)-Total			99.5		%		80-120	12-NOV-20
Boron (B)-Total			92.4		%		80-120	12-NOV-20
Cadmium (Cd)-Total			104.1		%		80-120	12-NOV-20
Calcium (Ca)-Total			102.4		%		80-120	12-NOV-20
Cesium (Cs)-Total			107.0		%		80-120	12-NOV-20
Chromium (Cr)-Total			102.7		%		80-120	12-NOV-20
Cobalt (Co)-Total			103.2		%		80-120	12-NOV-20
Copper (Cu)-Total			104.1		%		80-120	12-NOV-20
Iron (Fe)-Total			127.5	MES	%		80-120	12-NOV-20
Lead (Pb)-Total			98.7		%		80-120	12-NOV-20
Lithium (Li)-Total			94.6		%		80-120	12-NOV-20
Magnesium (Mg)-Total			102.1		%		80-120	12-NOV-20
Manganese (Mn)-Total			103.5		%		80-120	12-NOV-20
Molybdenum (Mo)-Total			104.5		%		80-120	12-NOV-20
Nickel (Ni)-Total			102.5		%		80-120	12-NOV-20
Phosphorus (P)-Total			106.2		%		80-120	12-NOV-20
Potassium (K)-Total			106.9		%		80-120	12-NOV-20
Rubidium (Rb)-Total			103.9		%		80-120	12-NOV-20
Selenium (Se)-Total			104.0		%		80-120	12-NOV-20
Silicon (Si)-Total			105.7		%		80-120	12-NOV-20
Silver (Ag)-Total			103.2		%		80-120	12-NOV-20
Sodium (Na)-Total			102.2		%		80-120	12-NOV-20
Strontium (Sr)-Total			107.0		%		80-120	12-NOV-20
Sulfur (S)-Total			88.8		%		80-120	12-NOV-20
Tellurium (Te)-Total			101.6		%		80-120	12-NOV-20
Thallium (Tl)-Total			97.4		%		80-120	12-NOV-20
Thorium (Th)-Total			104.9		%		80-120	12-NOV-20
Tin (Sn)-Total			102.8		%		80-120	12-NOV-20
Titanium (Ti)-Total			102.2		%		80-120	12-NOV-20
Tungsten (W)-Total			100.8		%		80-120	12-NOV-20
Uranium (U)-Total			107.7		%		80-120	12-NOV-20
Vanadium (V)-Total			103.5		%		80-120	12-NOV-20
Zinc (Zn)-Total			99.8		%		80-120	12-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-6 LCS								
Zirconium (Zr)-Total			106.8		%		80-120	12-NOV-20
WG3443089-5 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	12-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	12-NOV-20
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	12-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	12-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	12-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	12-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	12-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	12-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	12-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Silicon (Si)-Total			0.12	B	mg/L		0.1	12-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	12-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	12-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	12-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-5 MB								
Tin (Sn)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	12-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	12-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	12-NOV-20
NH3-F-TB	Water							
Batch R5286560								
WG3442650-3 DUP		**L2526890-2**						
Ammonia, Total (as N)		0.320	0.332		mg/L	3.7	20	16-NOV-20
WG3442650-2 LCS								
Ammonia, Total (as N)			96.6		%		85-115	16-NOV-20
WG3442650-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	16-NOV-20
WG3442650-4 MS		**L2526890-3**						
Ammonia, Total (as N)			N/A	MS-B	%		-	16-NOV-20
Batch R5289379								
WG3447239-2 LCS								
Ammonia, Total (as N)			101.5		%		85-115	19-NOV-20
WG3447239-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	19-NOV-20
NO2-IC-N-TB	Water							
Batch R5284544								
WG3441189-2 LCS								
Nitrite (as N)			90.6		%		90-110	11-NOV-20
WG3441189-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	11-NOV-20
NO3-IC-N-TB	Water							
Batch R5284544								
WG3441189-2 LCS								
Nitrate (as N)			96.1		%		90-110	11-NOV-20
WG3441189-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	11-NOV-20
P-T-COL-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-T-COL-TB	Water							
Batch R5287388								
WG3442691-2 LCS								
Phosphorus (P)-Total			102.5		%		80-120	17-NOV-20
WG3442691-1 MB								
Phosphorus (P)-Total			0.0031	B	mg/L		0.003	17-NOV-20
PH-TITR-TB	Water							
Batch R5282372								
WG3441159-3 DUP		**L2526890-1**						
pH		7.44	7.48	J	pH	0.04	0.2	07-NOV-20
WG3441159-2 LCS								
pH			6.93		pH		6.9-7.1	07-NOV-20
PO4-DO-COL-TB	Water							
Batch R5283229								
WG3441188-3 DUP		**L2526890-2**						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	09-NOV-20
WG3441188-2 LCS								
Orthophosphate-Dissolved (as P)			100.9		%		80-120	09-NOV-20
WG3441188-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	09-NOV-20
WG3441188-4 MS		**L2526890-3**						
Orthophosphate-Dissolved (as P)			99.7		%		70-130	09-NOV-20
SO4-IC-N-TB	Water							
Batch R5284544								
WG3441189-2 LCS								
Sulfate (SO4)			96.6		%		90-110	11-NOV-20
WG3441189-1 MB								
Sulfate (SO4)			<0.36		mg/L		0.36	11-NOV-20
TDS-TB	Water							
Batch R5283799								
WG3442465-2 LCS								
Total Dissolved Solids			98.5		%		85-115	10-NOV-20
WG3442465-1 MB								
Total Dissolved Solids			<10		mg/L		10	10-NOV-20
TKN-F-TB	Water							
Batch R5285197								
WG3442669-3 DUP		**L2526890-1**						
Total Kjeldahl Nitrogen		2.83	2.86		mg/L	1.2	20	13-NOV-20
WG3442669-2 LCS								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TKN-F-TB	Water							
Batch R5285197								
WG3442669-2 LCS								
Total Kjeldahl Nitrogen			102.8		%		75-125	13-NOV-20
WG3442669-1 MB								
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	13-NOV-20
WG3442669-4 MS		**L2526890-2**						
Total Kjeldahl Nitrogen			109.6		%		70-130	13-NOV-20
TOC-WT	Water							
Batch R5286572								
WG3443843-2 LCS								
Total Organic Carbon			104.1		%		80-120	16-NOV-20
WG3443843-1 MB								
Total Organic Carbon			<0.50		mg/L		0.5	16-NOV-20
TSS-TB	Water							
Batch R5283780								
WG3442464-2 LCS								
Total Suspended Solids			91.0		%		85-115	10-NOV-20
WG3442464-1 MB								
Total Suspended Solids			<3.0		mg/L		3	10-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2526890-COFC

COC Number: 17 -

150

Page 1 of 3

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report ☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 dmchaina@firstmininggold.com
Email 2 shaun@firstmininggold.com / shila@firstmininggold.
Email 3 john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax accountspayable@firstmininggold.com
Email 2 dmchaina@firstmininggold.com

Project Information

ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test - Surface Water
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2526890

ALS Contact: **Sampler:**

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity (F/P)	F, NO2,NO3, pH, SO4, PO4 (P)	TDS, TSS (P)	DOC, COD (F/P)	TOC, Total Ammonia, Total Phosphorus, TKN (P)	Total Metals (P)	Dissolved Metals, Hardness (F/P)	Total Mercury (P)	Dissolved Mercury (F/P)	Total CR6 (P)	Dissolved CR6 (F/P)		Dissolved Inorganic Carbon (DIC)	Total Methyl Mercury (P)	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-AQ-Lake1-201104	4-Nov-20	10:26	Surface Water	9	X	X	X	X	X	X	X	X	X	X	X					
	3134-AQ-SMW20-001-101104	4-Nov-20	10:31	Surface Water	9	X	X	X	X	X	X	X	X	X	X	X					
	3134-AQ-Lake2-201104	4-Nov-20	10:37	Surface Water	9	X	X	X	X	X	X	X	X	X	X	X					

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☑ No ☐

Ice Packs ☑ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C			
4.9						

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by: SD	Date: Nov 6/2020	Time: 1:03	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 10- NOV- 20
Report Date: 08- DEC- 20 09:05 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2527873

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - GROUNDWATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project



Christine Paradis
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527873-1 SP-GW-SGH20-001-D Sampled By: Client on 07-NOV-20 @ 10:52 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	341		1.0	uS/cm		10-NOV-20	R5283779
Hardness (as CaCO3)	162		0.50	mg/L		18-NOV-20	
pH	7.61		0.10	pH		10-NOV-20	R5283779
Total Suspended Solids	600		3.0	mg/L		11-NOV-20	R5284097
Total Dissolved Solids	239		20	mg/L		11-NOV-20	R5284231
Anions and Nutrients							
Acidity (as CaCO3)	3.3		2.0	mg/L		13-NOV-20	R5285085
Alkalinity, Total (as CaCO3)	198		2.0	mg/L		10-NOV-20	R5283779
Ammonia, Total (as N)	0.0439		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L		14-NOV-20	R5287534
Chloride (Cl)	0.94		0.10	mg/L		14-NOV-20	R5287534
Fluoride (F)	0.119		0.020	mg/L		14-NOV-20	R5287534
Nitrate (as N)	0.040		0.020	mg/L		14-NOV-20	R5287534
Nitrite (as N)	<0.010		0.010	mg/L		14-NOV-20	R5287534
Phosphorus (P)-Total	0.280		0.030	mg/L	17-NOV-20	18-NOV-20	R5287691
Silica, Reactive (as SiO2)	13.7		5.0	mg/L		18-NOV-20	R5287498
Sulfate (SO4)	13.3		0.30	mg/L		14-NOV-20	R5287534
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-NOV-20	R5286076
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				07-NOV-20	12-NOV-20	R5284649
Dissolved Organic Carbon	9.4	DLM	2.5	mg/L	07-NOV-20	17-NOV-20	R5287255
Total Metals							
Aluminum (Al)-Total	7.74		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	0.00071		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.0189		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.0992		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	0.00098		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	0.000228		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	0.012		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	0.000120		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	84.5		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	0.00195		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.0216		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	0.00580		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.0339		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	7.55		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	0.00960		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.0072		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	9.54		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	0.402		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.00612		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527873-1 SP-GW-SGH20-001-D Sampled By: Client on 07-NOV-20 @ 10:52 Matrix: Groundwater							
Total Metals							
Nickel (Ni)-Total	0.0162		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	0.255		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	4.42		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.0158		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.000480		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	19.8		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	0.000458		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	8.88		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.265		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	4.22		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	0.000127		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	0.00911		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	0.00025		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	0.0830		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	0.00240		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.00401		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	0.0137		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.0374		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	0.00087		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					13-NOV-20	R5284771
Dissolved Metals Filtration Location	FIELD					13-NOV-20	R5286077
Aluminum (Al)-Dissolved	0.0515		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Antimony (Sb)-Dissolved	0.00093		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Arsenic (As)-Dissolved	0.0104		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Barium (Ba)-Dissolved	0.0554		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Boron (B)-Dissolved	<0.010		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cadmium (Cd)-Dissolved	0.0000104		0.0000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Calcium (Ca)-Dissolved	56.2		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Cesium (Cs)-Dissolved	0.000044		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Chromium (Cr)-Dissolved	0.00038		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cobalt (Co)-Dissolved	0.00102		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Copper (Cu)-Dissolved	0.00430		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Iron (Fe)-Dissolved	0.146		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Lead (Pb)-Dissolved	0.000144		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Lithium (Li)-Dissolved	0.0029		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Magnesium (Mg)-Dissolved	5.31		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286710
Manganese (Mn)-Dissolved	0.145		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527873-1 SP-GW-SGH20-001-D Sampled By: Client on 07-NOV-20 @ 10:52 Matrix: Groundwater							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	13-NOV-20	R5285167
Molybdenum (Mo)-Dissolved	0.00734		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Nickel (Ni)-Dissolved	0.00204		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Potassium (K)-Dissolved	3.20		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Rubidium (Rb)-Dissolved	0.00418		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Selenium (Se)-Dissolved	0.000319		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Silicon (Si)-Dissolved	7.58		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Sodium (Na)-Dissolved	9.12		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Strontium (Sr)-Dissolved	0.210		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Sulfur (S)-Dissolved	4.04		0.50	mg/L	13-NOV-20	16-NOV-20	R5286710
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Thorium (Th)-Dissolved	0.00011		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Titanium (Ti)-Dissolved	0.00172		0.00030	mg/L	13-NOV-20	16-NOV-20	R5286710
Tungsten (W)-Dissolved	0.00441	DTC	0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Uranium (U)-Dissolved	0.00139		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Vanadium (V)-Dissolved	0.00105		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Zinc (Zn)-Dissolved	0.0041		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Zirconium (Zr)-Dissolved	0.00044		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
L2527873-2 SP-GW-BL-143-D Sampled By: Client on 07-NOV-20 @ 13:44 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	593		1.0	uS/cm		10-NOV-20	R5283779
Hardness (as CaCO3)	331		0.50	mg/L		17-NOV-20	
pH	7.64		0.10	pH		10-NOV-20	R5283779
Total Suspended Solids	10900		15	mg/L		11-NOV-20	R5284097
Total Dissolved Solids	560		40	mg/L		11-NOV-20	R5284231
Anions and Nutrients							
Acidity (as CaCO3)	47.8		2.0	mg/L		13-NOV-20	R5285085
Alkalinity, Total (as CaCO3)	1370		2.0	mg/L		10-NOV-20	R5283779
Ammonia, Total (as N)	0.063		0.010	mg/L	13-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L		14-NOV-20	R5287534
Chloride (Cl)	0.14		0.10	mg/L		14-NOV-20	R5287534
Fluoride (F)	0.095		0.020	mg/L		14-NOV-20	R5287534
Nitrate (as N)	<0.020		0.020	mg/L		14-NOV-20	R5287534
Nitrite (as N)	<0.010		0.010	mg/L		14-NOV-20	R5287534
Phosphorus (P)-Total	5.31		0.30	mg/L	17-NOV-20	18-NOV-20	R5287691
Silica, Reactive (as SiO2)	<50	DLM	50	mg/L		18-NOV-20	R5287498

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527873-2 SP-GW-BL-143-D Sampled By: Client on 07-NOV-20 @ 13:44 Matrix: Groundwater							
Anions and Nutrients							
Sulfate (SO4)	6.25		0.30	mg/L		14-NOV-20	R5287534
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-NOV-20	R5286076
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				07-NOV-20	12-NOV-20	R5284649
Dissolved Organic Carbon	7.5	DLM	2.5	mg/L	07-NOV-20	17-NOV-20	R5287255
Total Metals							
Aluminum (Al)-Total	176		0.030	mg/L	11-NOV-20	12-NOV-20	R5284898
Antimony (Sb)-Total	0.0010		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.0373		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	1.37		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	0.0051		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	0.00132		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	<0.10	DLM	0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	0.00102		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	745		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Cesium (Cs)-Total	0.0204		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.382		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	0.0941		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.232		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	230		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	0.0727		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.222		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	200		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	3.51		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.00201		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	0.255		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	6.91		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	46.9		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.381		0.0020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	0.00114		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	341		1.0	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	0.00072		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	23.5		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.927		0.0020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	<5.0	DLM	5.0	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.0020	DLM	0.0020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	0.00244		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	0.0926		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	0.0062		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	12.4		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	<0.0010	DLM	0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527873-2 SP-GW-BL-143-D Sampled By: Client on 07-NOV-20 @ 13:44 Matrix: Groundwater							
Total Metals							
Uranium (U)-Total	0.00715		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	0.414		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.524		0.030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	0.0872		0.0020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					13-NOV-20	R5284771
Dissolved Metals Filtration Location	FIELD					13-NOV-20	R5286077
Aluminum (Al)-Dissolved	0.0650		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Arsenic (As)-Dissolved	0.00027		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Barium (Ba)-Dissolved	0.0296		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Boron (B)-Dissolved	0.010		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cadmium (Cd)-Dissolved	0.0000093		0.0000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Calcium (Ca)-Dissolved	96.1		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Cesium (Cs)-Dissolved	0.000011		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Chromium (Cr)-Dissolved	0.00027		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cobalt (Co)-Dissolved	0.00015		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Copper (Cu)-Dissolved	0.00244		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Iron (Fe)-Dissolved	0.100		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Lead (Pb)-Dissolved	0.000120		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Lithium (Li)-Dissolved	0.0061		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Magnesium (Mg)-Dissolved	22.1		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286710
Manganese (Mn)-Dissolved	0.0308		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	13-NOV-20	R5285167
Molybdenum (Mo)-Dissolved	0.000493		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Nickel (Ni)-Dissolved	0.00090		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Potassium (K)-Dissolved	1.15		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Rubidium (Rb)-Dissolved	0.00116		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Silicon (Si)-Dissolved	9.59		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Sodium (Na)-Dissolved	3.26		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Strontium (Sr)-Dissolved	0.108		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Sulfur (S)-Dissolved	1.78		0.50	mg/L	13-NOV-20	16-NOV-20	R5286710
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527873-2 SP-GW-BL-143-D Sampled By: Client on 07-NOV-20 @ 13:44 Matrix: Groundwater							
Dissolved Metals							
Titanium (Ti)-Dissolved	0.00531		0.00030	mg/L	13-NOV-20	16-NOV-20	R5286710
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Uranium (U)-Dissolved	0.000500		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Vanadium (V)-Dissolved	0.00123		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Zinc (Zn)-Dissolved	0.0015		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Zirconium (Zr)-Dissolved	0.00023		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
L2527873-3 SP-GW-MW2 Sampled By: Client on 08-NOV-20 @ 14:05 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	308		1.0	uS/cm		12-NOV-20	R5284767
Hardness (as CaCO3)	132		0.50	mg/L		17-NOV-20	
pH	8.12		0.10	pH		12-NOV-20	R5284767
Total Suspended Solids	<3.0		3.0	mg/L		13-NOV-20	R5285476
Total Dissolved Solids	191		20	mg/L		13-NOV-20	R5285512
Anions and Nutrients							
Acidity (as CaCO3)	3.0		2.0	mg/L		13-NOV-20	R5285085
Alkalinity, Total (as CaCO3)	143		2.0	mg/L		12-NOV-20	R5284767
Ammonia, Total (as N)	0.465		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L		14-NOV-20	R5287534
Chloride (Cl)	0.92		0.10	mg/L		14-NOV-20	R5287534
Fluoride (F)	0.140		0.020	mg/L		14-NOV-20	R5287534
Nitrate (as N)	<0.020		0.020	mg/L		14-NOV-20	R5287534
Nitrite (as N)	<0.010		0.010	mg/L		14-NOV-20	R5287534
Phosphorus (P)-Total	<0.030	DLM	0.030	mg/L	20-NOV-20	20-NOV-20	R5292239
Silica, Reactive (as SiO2)	8.8		1.0	mg/L		18-NOV-20	R5287498
Sulfate (SO4)	25.5		0.30	mg/L		14-NOV-20	R5287534
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		13-NOV-20	R5286076
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				08-NOV-20	12-NOV-20	R5284649
Dissolved Organic Carbon	7.5	DLM	2.5	mg/L	08-NOV-20	17-NOV-20	R5287255
Total Metals							
Aluminum (Al)-Total	0.0040		0.0030	mg/L	11-NOV-20	13-NOV-20	R5286606
Antimony (Sb)-Total	0.00039		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Arsenic (As)-Total	0.00170		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Barium (Ba)-Total	0.132		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Beryllium (Be)-Total	0.00053		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Boron (B)-Total	0.019		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cadmium (Cd)-Total	0.0000101		0.0000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Calcium (Ca)-Total	37.7		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527873-3 SP-GW-MW2 Sampled By: Client on 08-NOV-20 @ 14:05 Matrix: Groundwater							
Total Metals							
Cesium (Cs)-Total	0.000459		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Chromium (Cr)-Total	0.00014		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Copper (Cu)-Total	0.00666		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Iron (Fe)-Total	2.45		0.010	mg/L	11-NOV-20	12-NOV-20	R5284898
Lead (Pb)-Total	0.000085		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Lithium (Li)-Total	0.0027		0.0010	mg/L	11-NOV-20	12-NOV-20	R5284898
Magnesium (Mg)-Total	8.11		0.0050	mg/L	11-NOV-20	12-NOV-20	R5284898
Manganese (Mn)-Total	0.158		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Molybdenum (Mo)-Total	0.00495		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Phosphorus (P)-Total	<0.050		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Potassium (K)-Total	2.09		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Rubidium (Rb)-Total	0.00208		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Selenium (Se)-Total	<0.000050		0.000050	mg/L	11-NOV-20	12-NOV-20	R5284898
Silicon (Si)-Total	4.45		0.10	mg/L	11-NOV-20	12-NOV-20	R5284898
Silver (Ag)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Sodium (Na)-Total	14.1		0.050	mg/L	11-NOV-20	12-NOV-20	R5284898
Strontium (Sr)-Total	0.361		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Sulfur (S)-Total	8.47		0.50	mg/L	11-NOV-20	12-NOV-20	R5284898
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Thorium (Th)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Tin (Sn)-Total	<0.00010		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	11-NOV-20	12-NOV-20	R5284898
Tungsten (W)-Total	0.00134		0.00010	mg/L	11-NOV-20	12-NOV-20	R5284898
Uranium (U)-Total	0.000387		0.000010	mg/L	11-NOV-20	12-NOV-20	R5284898
Vanadium (V)-Total	<0.00050		0.00050	mg/L	11-NOV-20	12-NOV-20	R5284898
Zinc (Zn)-Total	0.0280		0.0030	mg/L	11-NOV-20	12-NOV-20	R5284898
Zirconium (Zr)-Total	0.00068		0.00020	mg/L	11-NOV-20	12-NOV-20	R5284898
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					13-NOV-20	R5284771
Dissolved Metals Filtration Location	FIELD					13-NOV-20	R5286077
Aluminum (Al)-Dissolved	0.0026		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Arsenic (As)-Dissolved	0.00157		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Barium (Ba)-Dissolved	0.144		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Beryllium (Be)-Dissolved	0.00058		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Boron (B)-Dissolved	0.020		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	16-NOV-20	R5286710

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527873-3 SP-GW-MW2 Sampled By: Client on 08-NOV-20 @ 14:05 Matrix: Groundwater							
Dissolved Metals							
Calcium (Ca)-Dissolved	38.9		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Cesium (Cs)-Dissolved	0.000490		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Chromium (Cr)-Dissolved	0.00011		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Copper (Cu)-Dissolved	0.00114		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Iron (Fe)-Dissolved	2.32		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Lithium (Li)-Dissolved	0.0038		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Magnesium (Mg)-Dissolved	8.33		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286710
Manganese (Mn)-Dissolved	0.156		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	13-NOV-20	R5285167
Molybdenum (Mo)-Dissolved	0.00499		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Potassium (K)-Dissolved	2.15		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Rubidium (Rb)-Dissolved	0.00218		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Silicon (Si)-Dissolved	4.85		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Sodium (Na)-Dissolved	13.8		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Strontium (Sr)-Dissolved	0.372		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Sulfur (S)-Dissolved	8.31		0.50	mg/L	13-NOV-20	16-NOV-20	R5286710
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	13-NOV-20	16-NOV-20	R5286710
Tungsten (W)-Dissolved	0.00135		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Uranium (U)-Dissolved	0.000395		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Zinc (Zn)-Dissolved	0.0065		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Zirconium (Zr)-Dissolved	0.00072		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Silicon (Si)-Total	B	L2527873-1, -2, -3
Laboratory Control Sample	Iron (Fe)-Total	MES	L2527873-1, -2, -3
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2527873-1, -2, -3
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2527873-1, -2, -3
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2527873-1, -2, -3
Matrix Spike	Barium (Ba)-Total	MS-B	L2527873-1, -2, -3
Matrix Spike	Calcium (Ca)-Total	MS-B	L2527873-1, -2, -3
Matrix Spike	Iron (Fe)-Total	MS-B	L2527873-1, -2, -3
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2527873-1, -2, -3
Matrix Spike	Manganese (Mn)-Total	MS-B	L2527873-1, -2, -3
Matrix Spike	Sodium (Na)-Total	MS-B	L2527873-1, -2, -3
Matrix Spike	Strontium (Sr)-Total	MS-B	L2527873-1, -2, -3
Matrix Spike	Phosphorus (P)-Total	MS-B	L2527873-3

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-WP	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-WP	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CN-TOT-WT	Water	Cyanide, Total	ISO 14403-2

Total cyanide is determined by the combination of UV digestion and distillation. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

When using this method, high levels of thiocyanate in samples can cause false positives at ~1-2% of the thiocyanate concentration. For samples with detectable cyanide analyzed by this method, ALS recommends analysis for thiocyanate to check for this potential interference

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-WP	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION

Reference Information

HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-WP	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-WP	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

SIO2-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-WP	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5285085								
WG3443092-3 DUP		**L2527873-3**						
Acidity (as CaCO3)		3.0	2.2	J	mg/L	0.9	4	13-NOV-20
WG3443092-2 LCS								
Acidity (as CaCO3)			99.4		%		85-115	13-NOV-20
WG3443481-2 LCS								
Acidity (as CaCO3)			99.0		%		85-115	13-NOV-20
WG3443092-1 MB								
Acidity (as CaCO3)			2.0		mg/L		4	13-NOV-20
WG3443481-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		4	13-NOV-20
ALK-TITR-TB	Water							
Batch R5283779								
WG3442781-3 DUP		**L2527873-1**						
Alkalinity, Total (as CaCO3)		198	202		mg/L	1.6	20	10-NOV-20
WG3442781-2 LCS								
Alkalinity, Total (as CaCO3)			103.2		%		85-115	10-NOV-20
WG3442781-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	10-NOV-20
Batch R5284767								
WG3443090-2 LCS								
Alkalinity, Total (as CaCO3)			104.0		%		85-115	12-NOV-20
WG3443090-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	12-NOV-20
BR-IC-N-WP	Water							
Batch R5287534								
WG3445151-2 LCS								
Bromide (Br)			98.1		%		85-115	14-NOV-20
WG3445151-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	14-NOV-20
CL-L-IC-N-WP	Water							
Batch R5287534								
WG3445151-2 LCS								
Chloride (Cl)			101.6		%		90-110	14-NOV-20
WG3445151-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	14-NOV-20
CN-TOT-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-TOT-WT	Water							
Batch R5286076								
WG3444971-12 LCS								
Cyanide, Total			97.6		%		80-120	13-NOV-20
WG3444971-11 MB								
Cyanide, Total			<0.0020		mg/L		0.002	13-NOV-20
DOC-WT	Water							
Batch R5287255								
WG3444095-2 LCS								
Dissolved Organic Carbon			95.5		%		80-120	17-NOV-20
WG3444095-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	17-NOV-20
EC-TITR-TB	Water							
Batch R5283779								
WG3442781-3 DUP		**L2527873-1**						
Conductivity (EC)		341	341		uS/cm	0.0	10	10-NOV-20
WG3442781-2 LCS								
Conductivity (EC)			98.9		%		90-110	10-NOV-20
WG3442781-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	10-NOV-20
Batch R5284767								
WG3443090-2 LCS								
Conductivity (EC)			98.2		%		90-110	12-NOV-20
WG3443090-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	12-NOV-20
F-IC-N-WP	Water							
Batch R5287534								
WG3445151-2 LCS								
Fluoride (F)			105.5		%		90-110	14-NOV-20
WG3445151-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	14-NOV-20
HG-D-CVAA-WT	Water							
Batch R5285167								
WG3444280-2 LCS								
Mercury (Hg)-Dissolved			94.1		%		80-120	13-NOV-20
WG3444280-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	13-NOV-20
MET-D-CCMS-TB	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5286257								
WG3444592-2 LCS								
Aluminum (Al)-Dissolved			101.5		%		80-120	14-NOV-20
Antimony (Sb)-Dissolved			100.3		%		80-120	14-NOV-20
Arsenic (As)-Dissolved			104.4		%		80-120	14-NOV-20
Barium (Ba)-Dissolved			97.7		%		80-120	14-NOV-20
Beryllium (Be)-Dissolved			95.7		%		80-120	14-NOV-20
Bismuth (Bi)-Dissolved			95.9		%		80-120	14-NOV-20
Boron (B)-Dissolved			83.6		%		80-120	14-NOV-20
Cadmium (Cd)-Dissolved			101.9		%		80-120	14-NOV-20
Calcium (Ca)-Dissolved			97.0		%		80-120	14-NOV-20
Cesium (Cs)-Dissolved			104.3		%		80-120	14-NOV-20
Chromium (Cr)-Dissolved			100.4		%		80-120	14-NOV-20
Cobalt (Co)-Dissolved			101.8		%		80-120	14-NOV-20
Copper (Cu)-Dissolved			100.7		%		80-120	14-NOV-20
Iron (Fe)-Dissolved			119.8		%		80-120	14-NOV-20
Lead (Pb)-Dissolved			103.2		%		80-120	14-NOV-20
Lithium (Li)-Dissolved			100.5		%		80-120	14-NOV-20
Magnesium (Mg)-Dissolved			99.3		%		80-120	14-NOV-20
Manganese (Mn)-Dissolved			102.7		%		80-120	14-NOV-20
Molybdenum (Mo)-Dissolved			100.0		%		80-120	14-NOV-20
Nickel (Ni)-Dissolved			101.2		%		80-120	14-NOV-20
Phosphorus (P)-Dissolved			105.0		%		80-120	14-NOV-20
Potassium (K)-Dissolved			100.7		%		80-120	14-NOV-20
Rubidium (Rb)-Dissolved			105.9		%		80-120	14-NOV-20
Selenium (Se)-Dissolved			103.6		%		80-120	14-NOV-20
Silicon (Si)-Dissolved			100.6		%		80-120	14-NOV-20
Silver (Ag)-Dissolved			101.8		%		80-120	14-NOV-20
Sodium (Na)-Dissolved			97.2		%		80-120	14-NOV-20
Strontium (Sr)-Dissolved			107.0		%		80-120	14-NOV-20
Sulfur (S)-Dissolved			111.8		%		80-120	14-NOV-20
Tellurium (Te)-Dissolved			96.9		%		80-120	14-NOV-20
Thallium (Tl)-Dissolved			102.8		%		80-120	14-NOV-20
Thorium (Th)-Dissolved			106.5		%		80-120	14-NOV-20
Tin (Sn)-Dissolved			100.6		%		80-120	14-NOV-20
Titanium (Ti)-Dissolved			98.2		%		80-120	14-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5286257								
WG3444592-2 LCS								
Tungsten (W)-Dissolved			104.5		%		80-120	14-NOV-20
Uranium (U)-Dissolved			106.0		%		80-120	14-NOV-20
Vanadium (V)-Dissolved			101.6		%		80-120	14-NOV-20
Zinc (Zn)-Dissolved			105.3		%		80-120	14-NOV-20
Zirconium (Zr)-Dissolved			103.7		%		80-120	14-NOV-20
WG3444592-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	14-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	14-NOV-20
Cadmium (Cd)-Dissolved			<0.0000050		mg/L		0.000005	14-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	14-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	14-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	14-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	14-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	14-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	14-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	14-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	14-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	14-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5286257								
WG3444592-1 MB								
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	14-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	14-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	14-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	14-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-20
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-11 DUP		**L2527873-1**						
Aluminum (Al)-Total		7.74	9.10		mg/L	16	20	12-NOV-20
Antimony (Sb)-Total		0.00071	0.00070		mg/L	0.8	20	12-NOV-20
Arsenic (As)-Total		0.0189	0.0190		mg/L	0.8	20	12-NOV-20
Barium (Ba)-Total		0.0992	0.101		mg/L	1.8	20	12-NOV-20
Beryllium (Be)-Total		0.00098	0.00099		mg/L	0.7	20	12-NOV-20
Bismuth (Bi)-Total		0.000228	0.000274		mg/L	18	20	12-NOV-20
Boron (B)-Total		0.012	0.013		mg/L	5.3	20	12-NOV-20
Cadmium (Cd)-Total		0.000120	0.000111		mg/L	7.9	20	12-NOV-20
Calcium (Ca)-Total		84.5	83.5		mg/L	1.1	20	12-NOV-20
Cesium (Cs)-Total		0.00195	0.00223		mg/L	13	20	12-NOV-20
Chromium (Cr)-Total		0.0216	0.0255		mg/L	17	20	12-NOV-20
Cobalt (Co)-Total		0.00580	0.00641		mg/L	10	20	12-NOV-20
Copper (Cu)-Total		0.0339	0.0358		mg/L	5.5	20	12-NOV-20
Iron (Fe)-Total		7.55	8.71		mg/L	14	20	12-NOV-20
Lead (Pb)-Total		0.00960	0.00993		mg/L	3.4	20	12-NOV-20
Lithium (Li)-Total		0.0072	0.0079		mg/L	8.4	20	12-NOV-20
Magnesium (Mg)-Total		9.54	10.1		mg/L	5.4	20	12-NOV-20
Manganese (Mn)-Total		0.402	0.408		mg/L	1.5	20	12-NOV-20
Molybdenum (Mo)-Total		0.00612	0.00627		mg/L	2.4	20	12-NOV-20
Nickel (Ni)-Total		0.0162	0.0184		mg/L	12	20	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-11 DUP		**L2527873-1**						
Phosphorus (P)-Total		0.255	0.249		mg/L	2.7	20	12-NOV-20
Potassium (K)-Total		4.42	4.64		mg/L	4.9	20	12-NOV-20
Rubidium (Rb)-Total		0.0158	0.0177		mg/L	12	20	12-NOV-20
Selenium (Se)-Total		0.000480	0.000560		mg/L	15	20	12-NOV-20
Silicon (Si)-Total		19.8	22.2		mg/L	11	20	12-NOV-20
Silver (Ag)-Total		0.000458	0.000530		mg/L	15	20	12-NOV-20
Sodium (Na)-Total		8.88	8.93		mg/L	0.5	20	12-NOV-20
Strontium (Sr)-Total		0.265	0.266		mg/L	0.2	20	12-NOV-20
Sulfur (S)-Total		4.22	4.18		mg/L	1.0	20	12-NOV-20
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	12-NOV-20
Thallium (Tl)-Total		0.000127	0.000144		mg/L	13	20	12-NOV-20
Thorium (Th)-Total		0.00911	0.0109		mg/L	18	20	12-NOV-20
Tin (Sn)-Total		0.00025	0.00027		mg/L	9.1	20	12-NOV-20
Titanium (Ti)-Total		0.0830	0.0857		mg/L	3.1	20	12-NOV-20
Tungsten (W)-Total		0.00240	0.00240		mg/L	0.0	20	12-NOV-20
Uranium (U)-Total		0.00401	0.00427		mg/L	6.3	20	12-NOV-20
Vanadium (V)-Total		0.0137	0.0156		mg/L	13	20	12-NOV-20
Zinc (Zn)-Total		0.0374	0.0411		mg/L	9.5	20	12-NOV-20
Zirconium (Zr)-Total		0.00087	0.00082		mg/L	5.3	20	12-NOV-20
WG3443089-10 LCS								
Aluminum (Al)-Total			103.0		%		80-120	12-NOV-20
Antimony (Sb)-Total			103.6		%		80-120	12-NOV-20
Arsenic (As)-Total			106.4		%		80-120	12-NOV-20
Barium (Ba)-Total			100.8		%		80-120	12-NOV-20
Beryllium (Be)-Total			95.8		%		80-120	12-NOV-20
Bismuth (Bi)-Total			101.9		%		80-120	12-NOV-20
Boron (B)-Total			95.4		%		80-120	12-NOV-20
Cadmium (Cd)-Total			102.3		%		80-120	12-NOV-20
Calcium (Ca)-Total			102.0		%		80-120	12-NOV-20
Cesium (Cs)-Total			105.2		%		80-120	12-NOV-20
Chromium (Cr)-Total			100.9		%		80-120	12-NOV-20
Cobalt (Co)-Total			102.4		%		80-120	12-NOV-20
Copper (Cu)-Total			101.6		%		80-120	12-NOV-20
Iron (Fe)-Total			124.7	MES	%		80-120	12-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-10 LCS								
Lead (Pb)-Total			101.8		%		80-120	12-NOV-20
Lithium (Li)-Total			97.0		%		80-120	12-NOV-20
Magnesium (Mg)-Total			103.4		%		80-120	12-NOV-20
Manganese (Mn)-Total			102.9		%		80-120	12-NOV-20
Molybdenum (Mo)-Total			103.1		%		80-120	12-NOV-20
Nickel (Ni)-Total			101.6		%		80-120	12-NOV-20
Phosphorus (P)-Total			107.3		%		80-120	12-NOV-20
Potassium (K)-Total			104.3		%		80-120	12-NOV-20
Rubidium (Rb)-Total			100.5		%		80-120	12-NOV-20
Selenium (Se)-Total			106.5		%		80-120	12-NOV-20
Silicon (Si)-Total			104.4		%		80-120	12-NOV-20
Silver (Ag)-Total			102.6		%		80-120	12-NOV-20
Sodium (Na)-Total			105.3		%		80-120	12-NOV-20
Strontium (Sr)-Total			107.6		%		80-120	12-NOV-20
Sulfur (S)-Total			102.0		%		80-120	12-NOV-20
Tellurium (Te)-Total			99.1		%		80-120	12-NOV-20
Thallium (Tl)-Total			101.8		%		80-120	12-NOV-20
Thorium (Th)-Total			108.7		%		80-120	12-NOV-20
Tin (Sn)-Total			100.4		%		80-120	12-NOV-20
Titanium (Ti)-Total			99.2		%		80-120	12-NOV-20
Tungsten (W)-Total			101.4		%		80-120	12-NOV-20
Uranium (U)-Total			107.6		%		80-120	12-NOV-20
Vanadium (V)-Total			102.5		%		80-120	12-NOV-20
Zinc (Zn)-Total			95.2		%		80-120	12-NOV-20
Zirconium (Zr)-Total			106.1		%		80-120	12-NOV-20
WG3443089-9 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	12-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	12-NOV-20
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-9 MB								
Calcium (Ca)-Total			<0.050		mg/L		0.05	12-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	12-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	12-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	12-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	12-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	12-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	12-NOV-20
Silicon (Si)-Total			0.12	B	mg/L		0.1	12-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	12-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	12-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	12-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	12-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	12-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	12-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	12-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	12-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	12-NOV-20
WG3443089-12 MS		**L2527873-3**						
Aluminum (Al)-Total			107.1		%		70-130	12-NOV-20
Antimony (Sb)-Total			109.6		%		70-130	12-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-12 MS		**L2527873-3**						
Arsenic (As)-Total			110.4		%		70-130	12-NOV-20
Barium (Ba)-Total			N/A	MS-B	%		-	12-NOV-20
Beryllium (Be)-Total			97.8		%		70-130	12-NOV-20
Bismuth (Bi)-Total			110.7		%		70-130	12-NOV-20
Boron (B)-Total			101.0		%		70-130	12-NOV-20
Cadmium (Cd)-Total			107.2		%		70-120	12-NOV-20
Calcium (Ca)-Total			N/A	MS-B	%		-	12-NOV-20
Cesium (Cs)-Total			114.9		%		70-130	12-NOV-20
Chromium (Cr)-Total			108.3		%		70-130	12-NOV-20
Cobalt (Co)-Total			106.1		%		70-130	12-NOV-20
Copper (Cu)-Total			105.1		%		70-130	12-NOV-20
Iron (Fe)-Total			N/A	MS-B	%		-	12-NOV-20
Lead (Pb)-Total			104.9		%		70-130	12-NOV-20
Lithium (Li)-Total			101.6		%		70-130	12-NOV-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	12-NOV-20
Manganese (Mn)-Total			N/A	MS-B	%		-	12-NOV-20
Molybdenum (Mo)-Total			109.5		%		70-130	12-NOV-20
Nickel (Ni)-Total			105.6		%		70-130	12-NOV-20
Phosphorus (P)-Total			110.8		%		70-130	12-NOV-20
Potassium (K)-Total			103.1		%		70-130	12-NOV-20
Rubidium (Rb)-Total			104.9		%		70-130	12-NOV-20
Selenium (Se)-Total			106.5		%		70-130	12-NOV-20
Silicon (Si)-Total			93.6		%		70-130	12-NOV-20
Silver (Ag)-Total			107.9		%		70-130	12-NOV-20
Sodium (Na)-Total			N/A	MS-B	%		-	12-NOV-20
Strontium (Sr)-Total			N/A	MS-B	%		-	12-NOV-20
Sulfur (S)-Total			111.3		%		70-130	12-NOV-20
Tellurium (Te)-Total			104.1		%		70-130	12-NOV-20
Thallium (Tl)-Total			104.5		%		70-130	12-NOV-20
Thorium (Th)-Total			114.7		%		70-130	12-NOV-20
Tin (Sn)-Total			105.9		%		70-130	12-NOV-20
Titanium (Ti)-Total			102.3		%		70-130	12-NOV-20
Tungsten (W)-Total			107.6		%		70-130	12-NOV-20
Uranium (U)-Total			113.8		%		70-130	12-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5284898								
WG3443089-12 MS		**L2527873-3**						
Vanadium (V)-Total			108.6		%		70-130	12-NOV-20
Zinc (Zn)-Total			104.0		%		70-130	12-NOV-20
Zirconium (Zr)-Total			112.2		%		70-130	12-NOV-20
NH3-F-TB	Water							
Batch R5286560								
WG3444442-2 LCS								
Ammonia, Total (as N)			104.1		%		85-115	16-NOV-20
WG3444442-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	16-NOV-20
NO2-IC-N-WP	Water							
Batch R5287534								
WG3445151-2 LCS								
Nitrite (as N)			98.9		%		90-110	14-NOV-20
WG3445151-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	14-NOV-20
NO3-IC-N-WP	Water							
Batch R5287534								
WG3445151-2 LCS								
Nitrate (as N)			101.2		%		90-110	14-NOV-20
WG3445151-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	14-NOV-20
P-T-COL-TB	Water							
Batch R5287691								
WG3444455-2 LCS								
Phosphorus (P)-Total			98.2		%		80-120	18-NOV-20
WG3444455-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	18-NOV-20
Batch R5292239								
WG3448197-2 LCS								
Phosphorus (P)-Total			103.2		%		80-120	20-NOV-20
WG3448197-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	20-NOV-20
PH-TITR-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-TITR-TB	Water							
Batch R5283779								
WG3442781-3 DUP		**L2527873-1**						
pH		7.61	7.62	J	pH	0.01	0.2	10-NOV-20
WG3442781-2 LCS								
pH			6.97		pH		6.9-7.1	10-NOV-20
Batch R5284767								
WG3443090-2 LCS								
pH			6.99		pH		6.9-7.1	12-NOV-20
SIO2-COL-WP	Water							
Batch R5287498								
WG3447356-3 DUP		**L2527873-3**						
Silica, Reactive (as SiO2)		8.8	8.7		mg/L	1.9	20	18-NOV-20
WG3447356-2 LCS								
Silica, Reactive (as SiO2)			110.7		%		85-115	18-NOV-20
WG3447356-1 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	18-NOV-20
WG3447356-4 MS		**L2527873-3**						
Silica, Reactive (as SiO2)			106.6		%		75-125	18-NOV-20
SO4-IC-N-WP	Water							
Batch R5287534								
WG3445151-2 LCS								
Sulfate (SO4)			102.8		%		90-110	14-NOV-20
WG3445151-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	14-NOV-20
TDS-TB	Water							
Batch R5284231								
WG3443122-2 LCS								
Total Dissolved Solids			98.9		%		85-115	11-NOV-20
WG3443122-1 MB								
Total Dissolved Solids			<10		mg/L		10	11-NOV-20
Batch R5285512								
WG3443757-2 LCS								
Total Dissolved Solids			96.8		%		85-115	13-NOV-20
WG3443757-1 MB								
Total Dissolved Solids			<10		mg/L		10	13-NOV-20
TSS-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TSS-TB	Water							
Batch R5284097								
WG3443124-2 LCS								
Total Suspended Solids			94.5		%		85-115	11-NOV-20
WG3443124-1 MB								
Total Suspended Solids			<3.0		mg/L		3	11-NOV-20
Batch R5285476								
WG3443770-2 LCS								
Total Suspended Solids			90.0		%		85-115	13-NOV-20
WG3443770-1 MB								
Total Suspended Solids			<3.0		mg/L		3	13-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Anions and Nutrients							
Nitrate in Water by IC							
	1	07-NOV-20 10:52	14-NOV-20 10:30	3	7	days	EHTR
	2	07-NOV-20 13:44	14-NOV-20 10:30	3	7	days	EHTL
	3	08-NOV-20 14:05	14-NOV-20 10:30	3	6	days	EHT
Nitrite in Water by IC							
	1	07-NOV-20 10:52	14-NOV-20 10:30	3	7	days	EHTR
	2	07-NOV-20 13:44	14-NOV-20 10:30	3	7	days	EHTL
	3	08-NOV-20 14:05	14-NOV-20 10:30	3	6	days	EHT

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2527873 were received on 10-NOV-20 11:10.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2527873-COFC

COC Number: 17 -

Page 1 of 1

SD

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☐ PDF ☐ EXCEL ☐ EDD (DIGITAL)

Quality Control (QC) Report with Report ☐ YES ☐ NO

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1: dmchaina@firstmininggold.com

Email 2: shila@firstmininggold.com

Email 3: shaun@firstmininggold.com

Invoice Distribution

Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accountspayable@firstmininggold.com

Email 2: dmchaina@firstmininggold.com

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☐ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-60%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	20864 / Q64154	AFE/Cost Center:	PO#:
Job #:	Springpole Pump Test - Groundwater	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:	First Mining Gold Project	Location:	
ALS Lab Work Order # (lab use only):	L2527873	ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity	Dissolved Metals, Total Metals	Dissolved Mercury	DOC, H, Hardness, NO2, NO3, pH, SO4	TDS	Total Cyanide	Total Phosphorus, TSS	Reactive Silica	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	SP-GW-SGH20-001-D	7-Nov-20	10:52	Groundwater	8	X	X	X	X	X	X	X	X		
	SP-GW-BL-143-D	7-Nov-20	13:44	Groundwater	8	X	X	X	X	X	X	X	X		
	SP-GW-MW2	8-Nov-20	14:05	Groundwater	8	X	X	X	X	X	X	X	X		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☑

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.8							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by: SD	Date: Nov. 10/2020	Time: 11:10	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

AC

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 10- NOV- 20
Report Date: 08- DEC- 20 08:28 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2527908

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - SURFACE WATER
C of C Numbers:
Legal Site Desc: Firsting Mining Gold Project

C. Paradis

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527908-1 3134-AQ-LAKE1-201109 Sampled By: Client on 09-NOV-20 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	67.1		1.0	uS/cm		12-NOV-20	R5284767
Hardness (as CaCO3)	32.0		0.50	mg/L		17-NOV-20	
pH	7.58		0.10	pH		12-NOV-20	R5284767
Total Suspended Solids	<3.0		3.0	mg/L		12-NOV-20	R5284864
Total Dissolved Solids	29		10	mg/L		12-NOV-20	R5284934
Anions and Nutrients							
Acidity (as CaCO3)	2.4		2.0	mg/L		13-NOV-20	R5285085
Alkalinity, Total (as CaCO3)	32.5		2.0	mg/L		12-NOV-20	R5284767
Ammonia, Total (as N)	0.0808		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286560
Bromide (Br)	<0.10		0.10	mg/L	11-NOV-20	14-NOV-20	R5285959
Chloride (Cl)	0.88		0.10	mg/L	11-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.023		0.020	mg/L	11-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.026		0.020	mg/L	11-NOV-20	14-NOV-20	R5285959
Nitrite (as N)	<0.010		0.010	mg/L	11-NOV-20	14-NOV-20	R5285959
Total Kjeldahl Nitrogen	0.40		0.10	mg/L	12-NOV-20	13-NOV-20	R5285197
Orthophosphate-Dissolved (as P)	0.0035		0.0030	mg/L	09-NOV-20	12-NOV-20	R5284856
Phosphorus (P)-Total	0.0096		0.0030	mg/L	17-NOV-20	18-NOV-20	R5287691
Sulfate (SO4)	12.4		0.30	mg/L	11-NOV-20	14-NOV-20	R5285959
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				09-NOV-20	12-NOV-20	R5284649
Dissolved Organic Carbon	8.4	DLM	2.5	mg/L	09-NOV-20	17-NOV-20	R5287255
Total Organic Carbon	8.54		0.50	mg/L		18-NOV-20	R5288559
Total Metals							
Aluminum (Al)-Total	0.0075		0.0030	mg/L	13-NOV-20	16-NOV-20	R5286651
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Arsenic (As)-Total	0.00075		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Barium (Ba)-Total	0.00792		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Boron (B)-Total	<0.015	DLB	0.015	mg/L	13-NOV-20	16-NOV-20	R5286651
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Calcium (Ca)-Total	11.3		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Chromium (Cr)-Total	0.00019		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Copper (Cu)-Total	0.00074		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Iron (Fe)-Total	0.094		0.010	mg/L	13-NOV-20	16-NOV-20	R5286651
Lead (Pb)-Total	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Lithium (Li)-Total	<0.0010		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286651
Magnesium (Mg)-Total	1.65		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286651
Manganese (Mn)-Total	0.00836		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		13-NOV-20	R5285068

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527908-1 3134-AQ-LAKE1-201109 Sampled By: Client on 09-NOV-20 Matrix: Surface Water							
Total Metals							
Molybdenum (Mo)-Total	0.000142		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Phosphorus (P)-Total	<0.050		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Potassium (K)-Total	0.696		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Rubidium (Rb)-Total	0.00182		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Selenium (Se)-Total	0.000119		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Silicon (Si)-Total	1.29		0.10	mg/L	13-NOV-20	16-NOV-20	R5286651
Silver (Ag)-Total	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Sodium (Na)-Total	0.803		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Strontium (Sr)-Total	0.0348		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Sulfur (S)-Total	0.61		0.50	mg/L	13-NOV-20	16-NOV-20	R5286651
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Thorium (Th)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Tin (Sn)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	13-NOV-20	16-NOV-20	R5286651
Tungsten (W)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Uranium (U)-Total	0.000018		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Vanadium (V)-Total	0.00055		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	13-NOV-20	16-NOV-20	R5286651
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					13-NOV-20	R5284771
Dissolved Metals Filtration Location	FIELD					13-NOV-20	R5286077
Aluminum (Al)-Dissolved	0.0015		0.0010	mg/L	13-NOV-20	14-NOV-20	R5286257
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	14-NOV-20	R5286257
Arsenic (As)-Dissolved	0.00054		0.00010	mg/L	13-NOV-20	14-NOV-20	R5286257
Barium (Ba)-Dissolved	0.00684		0.00010	mg/L	13-NOV-20	14-NOV-20	R5286257
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	14-NOV-20	R5286257
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	14-NOV-20	R5286257
Boron (B)-Dissolved	<0.010		0.010	mg/L	13-NOV-20	14-NOV-20	R5286257
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	14-NOV-20	R5286257
Calcium (Ca)-Dissolved	10.3		0.050	mg/L	13-NOV-20	14-NOV-20	R5286257
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	14-NOV-20	R5286257
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	14-NOV-20	R5286257
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	14-NOV-20	R5286257
Copper (Cu)-Dissolved	0.00068		0.00020	mg/L	13-NOV-20	14-NOV-20	R5286257
Iron (Fe)-Dissolved	0.011		0.010	mg/L	13-NOV-20	14-NOV-20	R5286257
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	14-NOV-20	R5286257
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	13-NOV-20	14-NOV-20	R5286257
Magnesium (Mg)-Dissolved	1.53		0.0050	mg/L	13-NOV-20	14-NOV-20	R5286257

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527908-1 3134-AQ-LAKE1-201109 Sampled By: Client on 09-NOV-20 Matrix: Surface Water							
Dissolved Metals							
Manganese (Mn)-Dissolved	0.00080		0.00010	mg/L	13-NOV-20	14-NOV-20	R5286257
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	13-NOV-20	R5285167
Molybdenum (Mo)-Dissolved	0.000104		0.000050	mg/L	13-NOV-20	14-NOV-20	R5286257
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	13-NOV-20	14-NOV-20	R5286257
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	13-NOV-20	14-NOV-20	R5286257
Potassium (K)-Dissolved	0.641		0.050	mg/L	13-NOV-20	14-NOV-20	R5286257
Rubidium (Rb)-Dissolved	0.00168		0.00020	mg/L	13-NOV-20	14-NOV-20	R5286257
Selenium (Se)-Dissolved	0.000053		0.000050	mg/L	13-NOV-20	14-NOV-20	R5286257
Silicon (Si)-Dissolved	1.17		0.050	mg/L	13-NOV-20	14-NOV-20	R5286257
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	14-NOV-20	R5286257
Sodium (Na)-Dissolved	0.726		0.050	mg/L	13-NOV-20	14-NOV-20	R5286257
Strontium (Sr)-Dissolved	0.0297		0.00020	mg/L	13-NOV-20	14-NOV-20	R5286257
Sulfur (S)-Dissolved	0.94		0.50	mg/L	13-NOV-20	14-NOV-20	R5286257
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	13-NOV-20	14-NOV-20	R5286257
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	14-NOV-20	R5286257
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	14-NOV-20	R5286257
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	14-NOV-20	R5286257
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	13-NOV-20	14-NOV-20	R5286257
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	14-NOV-20	R5286257
Uranium (U)-Dissolved	0.000012		0.000010	mg/L	13-NOV-20	14-NOV-20	R5286257
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	13-NOV-20	14-NOV-20	R5286257
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	13-NOV-20	14-NOV-20	R5286257
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	13-NOV-20	14-NOV-20	R5286257
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		13-NOV-20	R5286040
Chromium, Hexavalent	<0.50		0.50	ug/L		13-NOV-20	R5286043
Methylmercury (as MeHg)-Total	<0.000020		0.000020	ug/L	25-NOV-20	25-NOV-20	R5298346
Aggregate Organics							
Chemical Oxygen Demand	27		20	mg/L	13-NOV-20	17-NOV-20	R5286913
L2527908-2 3134-AQ-LAKE2-201109 Sampled By: Client on 09-NOV-20 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	66.0		1.0	uS/cm		12-NOV-20	R5284767
Hardness (as CaCO3)	34.1		0.50	mg/L		17-NOV-20	
pH	7.57		0.10	pH		12-NOV-20	R5284767
Total Suspended Solids	<3.0		3.0	mg/L		12-NOV-20	R5284864
Total Dissolved Solids	28		10	mg/L		12-NOV-20	R5284934
Anions and Nutrients							
Acidity (as CaCO3)	2.5		2.0	mg/L		13-NOV-20	R5285085
Alkalinity, Total (as CaCO3)	31.9		2.0	mg/L		12-NOV-20	R5284767
Ammonia, Total (as N)	5.1		2.5	mg/L	17-NOV-20	17-NOV-20	R5287218

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527908-2 3134-AQ-LAKE2-201109 Sampled By: Client on 09-NOV-20 Matrix: Surface Water							
Anions and Nutrients							
Bromide (Br)	<0.10		0.10	mg/L	11-NOV-20	14-NOV-20	R5285959
Chloride (Cl)	<0.30	DLB	0.30	mg/L	11-NOV-20	14-NOV-20	R5285959
Fluoride (F)	<0.020		0.020	mg/L	11-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	0.022		0.020	mg/L	11-NOV-20	14-NOV-20	R5285959
Nitrite (as N)	<0.010		0.010	mg/L	11-NOV-20	14-NOV-20	R5285959
Total Kjeldahl Nitrogen	6.27		0.25	mg/L	12-NOV-20	18-NOV-20	R5287683
Orthophosphate-Dissolved (as P)	0.0032		0.0030	mg/L	09-NOV-20	12-NOV-20	R5284856
Phosphorus (P)-Total	0.0121		0.0030	mg/L	17-NOV-20	18-NOV-20	R5287691
Sulfate (SO4)	0.89		0.30	mg/L	11-NOV-20	14-NOV-20	R5285959
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				09-NOV-20	12-NOV-20	R5284649
Dissolved Organic Carbon	9.0	DLM	2.5	mg/L	09-NOV-20	17-NOV-20	R5287255
Total Organic Carbon	8.58		0.50	mg/L		18-NOV-20	R5288559
Total Metals							
Aluminum (Al)-Total	0.0076		0.0030	mg/L	13-NOV-20	16-NOV-20	R5286651
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Arsenic (As)-Total	0.00071		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Barium (Ba)-Total	0.00778		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Boron (B)-Total	<0.015	DLB	0.015	mg/L	13-NOV-20	16-NOV-20	R5286651
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Calcium (Ca)-Total	11.1		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Chromium (Cr)-Total	0.00011		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Copper (Cu)-Total	0.00071		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Iron (Fe)-Total	0.042		0.010	mg/L	13-NOV-20	16-NOV-20	R5286651
Lead (Pb)-Total	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Lithium (Li)-Total	<0.0010		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286651
Magnesium (Mg)-Total	1.62		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286651
Manganese (Mn)-Total	0.00785		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		13-NOV-20	R5285068
Molybdenum (Mo)-Total	0.000126		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Phosphorus (P)-Total	<0.050		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Potassium (K)-Total	0.705		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Rubidium (Rb)-Total	0.00189		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Selenium (Se)-Total	0.000104		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Silicon (Si)-Total	1.32		0.10	mg/L	13-NOV-20	16-NOV-20	R5286651
Silver (Ag)-Total	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527908-2 3134-AQ-LAKE2-201109 Sampled By: Client on 09-NOV-20 Matrix: Surface Water							
Total Metals							
Sodium (Na)-Total	0.778		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Strontium (Sr)-Total	0.0282		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Sulfur (S)-Total	0.57		0.50	mg/L	13-NOV-20	16-NOV-20	R5286651
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Thorium (Th)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Tin (Sn)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	13-NOV-20	16-NOV-20	R5286651
Tungsten (W)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Uranium (U)-Total	0.000015		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Vanadium (V)-Total	0.00052		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Zinc (Zn)-Total	0.0041		0.0030	mg/L	13-NOV-20	16-NOV-20	R5286651
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					13-NOV-20	R5284771
Dissolved Metals Filtration Location	FIELD					13-NOV-20	R5286077
Aluminum (Al)-Dissolved	0.0019		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Arsenic (As)-Dissolved	0.00060		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Barium (Ba)-Dissolved	0.00760		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Boron (B)-Dissolved	<0.010		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Calcium (Ca)-Dissolved	11.1		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Chromium (Cr)-Dissolved	0.00013		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Copper (Cu)-Dissolved	0.00067		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Iron (Fe)-Dissolved	0.011		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Magnesium (Mg)-Dissolved	1.57		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286710
Manganese (Mn)-Dissolved	0.00064		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	13-NOV-20	R5285167
Molybdenum (Mo)-Dissolved	0.000104		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Potassium (K)-Dissolved	0.719		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Rubidium (Rb)-Dissolved	0.00183		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Selenium (Se)-Dissolved	0.000096		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527908-2 3134-AQ-LAKE2-201109 Sampled By: Client on 09-NOV-20 Matrix: Surface Water							
Dissolved Metals							
Silicon (Si)-Dissolved	1.29		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Sodium (Na)-Dissolved	0.782		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Strontium (Sr)-Dissolved	0.0281		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	13-NOV-20	16-NOV-20	R5286710
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	13-NOV-20	16-NOV-20	R5286710
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Uranium (U)-Dissolved	0.000013		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Zinc (Zn)-Dissolved	0.0023		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		13-NOV-20	R5286040
Chromium, Hexavalent	<0.50		0.50	ug/L		13-NOV-20	R5286043
Methylmercury (as MeHg)-Total	<0.000020		0.000020	ug/L	25-NOV-20	25-NOV-20	R5298346
Aggregate Organics							
Chemical Oxygen Demand	30		20	mg/L	13-NOV-20	17-NOV-20	R5286913

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Total Kjeldahl Nitrogen	MB-LOR	L2527908-1, -2
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2527908-1, -2
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2527908-1, -2
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2527908-1, -2
Matrix Spike	Sulfate (SO4)	MS-B	L2527908-1, -2

Sample Parameter Qualifier key listed:

Qualifier	Description
DLB	Detection Limit Raised. Analyte detected at comparable level in Method Blank.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-PWQO-IC-WT	Water	Chromium +6	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION

Reference Information

HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-T-CVAA-WT	Water	Total Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MEHG-T-GCAF-VA	Water	Total Methylmercury in Water by GCAFS	EPA 1630

This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolized to elemental Hg and quantified by cold vapour atomic flourescence spectroscopy. Results are reported "as MeHg".

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

TOC-WT	Water	Total Organic Carbon	APHA 5310B

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic cabon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

Reference Information

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5285085								
WG3443092-2 LCS								
Acidity (as CaCO3)			99.4		%		85-115	13-NOV-20
WG3443092-1 MB								
Acidity (as CaCO3)			2.0		mg/L		4	13-NOV-20
ALK-TITR-TB	Water							
Batch R5284767								
WG3443090-2 LCS								
Alkalinity, Total (as CaCO3)			104.0		%		85-115	12-NOV-20
WG3443090-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	12-NOV-20
BR-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Bromide (Br)			101.3		%		85-115	14-NOV-20
WG3443088-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	14-NOV-20
CL-L-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Chloride (Cl)			103.8		%		90-110	14-NOV-20
WG3443088-1 MB								
Chloride (Cl)			<0.30		mg/L		0.3	14-NOV-20
COD-TB	Water							
Batch R5286913								
WG3444439-2 LCS								
Chemical Oxygen Demand			108.4		%		85-115	17-NOV-20
WG3444439-1 MB								
Chemical Oxygen Demand			<20		mg/L		20	17-NOV-20
CR-CR6-DIS-WT	Water							
Batch R5286040								
WG3444646-2 LCS								
Chromium (VI)-Dissolved			100.1		%		70-130	13-NOV-20
WG3444646-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	13-NOV-20
CR-CR6-PWQO-IC-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-PWQO-IC-WT	Water							
Batch R5286043								
WG3444647-2 LCS								
Chromium, Hexavalent			99.9		%		80-120	13-NOV-20
WG3444647-1 MB								
Chromium, Hexavalent			<0.50		ug/L		0.5	13-NOV-20
DOC-WT	Water							
Batch R5287255								
WG3444095-2 LCS								
Dissolved Organic Carbon			95.5		%		80-120	17-NOV-20
WG3444095-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	17-NOV-20
EC-TITR-TB	Water							
Batch R5284767								
WG3443090-2 LCS								
Conductivity (EC)			98.2		%		90-110	12-NOV-20
WG3443090-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	12-NOV-20
F-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Fluoride (F)			104.1		%		90-110	14-NOV-20
WG3443088-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	14-NOV-20
HG-D-CVAA-WT	Water							
Batch R5285167								
WG3444280-2 LCS								
Mercury (Hg)-Dissolved			94.1		%		80-120	13-NOV-20
WG3444280-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	13-NOV-20
HG-T-CVAA-WT	Water							
Batch R5285068								
WG3444276-2 LCS								
Mercury (Hg)-Total			111.0		%		80-120	13-NOV-20
WG3444276-1 MB								
Mercury (Hg)-Total			<0.000005(		mg/L		0.000005	13-NOV-20
MEHG-T-GCAF-VA	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MEHG-T-GCAF-VA	Water							
Batch R5298346								
WG3452475-3 LCS								
Methylmercury (as MeHg)-Total			88.8		%		70-130	25-NOV-20
WG3452475-1 MB								
Methylmercury (as MeHg)-Total			<0.000020		ug/L		0.00002	25-NOV-20
MET-D-CCMS-TB	Water							
Batch R5286257								
WG3444592-2 LCS								
Aluminum (Al)-Dissolved			101.5		%		80-120	14-NOV-20
Antimony (Sb)-Dissolved			100.3		%		80-120	14-NOV-20
Arsenic (As)-Dissolved			104.4		%		80-120	14-NOV-20
Barium (Ba)-Dissolved			97.7		%		80-120	14-NOV-20
Beryllium (Be)-Dissolved			95.7		%		80-120	14-NOV-20
Bismuth (Bi)-Dissolved			95.9		%		80-120	14-NOV-20
Boron (B)-Dissolved			83.6		%		80-120	14-NOV-20
Cadmium (Cd)-Dissolved			101.9		%		80-120	14-NOV-20
Calcium (Ca)-Dissolved			97.0		%		80-120	14-NOV-20
Cesium (Cs)-Dissolved			104.3		%		80-120	14-NOV-20
Chromium (Cr)-Dissolved			100.4		%		80-120	14-NOV-20
Cobalt (Co)-Dissolved			101.8		%		80-120	14-NOV-20
Copper (Cu)-Dissolved			100.7		%		80-120	14-NOV-20
Iron (Fe)-Dissolved			119.8		%		80-120	14-NOV-20
Lead (Pb)-Dissolved			103.2		%		80-120	14-NOV-20
Lithium (Li)-Dissolved			100.5		%		80-120	14-NOV-20
Magnesium (Mg)-Dissolved			99.3		%		80-120	14-NOV-20
Manganese (Mn)-Dissolved			102.7		%		80-120	14-NOV-20
Molybdenum (Mo)-Dissolved			100.0		%		80-120	14-NOV-20
Nickel (Ni)-Dissolved			101.2		%		80-120	14-NOV-20
Phosphorus (P)-Dissolved			105.0		%		80-120	14-NOV-20
Potassium (K)-Dissolved			100.7		%		80-120	14-NOV-20
Rubidium (Rb)-Dissolved			105.9		%		80-120	14-NOV-20
Selenium (Se)-Dissolved			103.6		%		80-120	14-NOV-20
Silicon (Si)-Dissolved			100.6		%		80-120	14-NOV-20
Silver (Ag)-Dissolved			101.8		%		80-120	14-NOV-20
Sodium (Na)-Dissolved			97.2		%		80-120	14-NOV-20
Strontium (Sr)-Dissolved			107.0		%		80-120	14-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5286257								
WG3444592-2 LCS								
Sulfur (S)-Dissolved			111.8		%		80-120	14-NOV-20
Tellurium (Te)-Dissolved			96.9		%		80-120	14-NOV-20
Thallium (Tl)-Dissolved			102.8		%		80-120	14-NOV-20
Thorium (Th)-Dissolved			106.5		%		80-120	14-NOV-20
Tin (Sn)-Dissolved			100.6		%		80-120	14-NOV-20
Titanium (Ti)-Dissolved			98.2		%		80-120	14-NOV-20
Tungsten (W)-Dissolved			104.5		%		80-120	14-NOV-20
Uranium (U)-Dissolved			106.0		%		80-120	14-NOV-20
Vanadium (V)-Dissolved			101.6		%		80-120	14-NOV-20
Zinc (Zn)-Dissolved			105.3		%		80-120	14-NOV-20
Zirconium (Zr)-Dissolved			103.7		%		80-120	14-NOV-20
WG3444592-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	14-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	14-NOV-20
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	14-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	14-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	14-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	14-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	14-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	14-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	14-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	14-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5286257								
WG3444592-1 MB								
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	14-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	14-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	14-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	14-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	14-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	14-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-20
MET-T-CCMS-TB	Water							
Batch R5286651								
WG3443861-2 LCS								
Aluminum (Al)-Total			102.2		%		80-120	16-NOV-20
Antimony (Sb)-Total			101.7		%		80-120	16-NOV-20
Arsenic (As)-Total			105.0		%		80-120	16-NOV-20
Barium (Ba)-Total			99.6		%		80-120	16-NOV-20
Beryllium (Be)-Total			96.8		%		80-120	16-NOV-20
Bismuth (Bi)-Total			99.7		%		80-120	16-NOV-20
Boron (B)-Total			89.3		%		80-120	16-NOV-20
Cadmium (Cd)-Total			103.3		%		80-120	16-NOV-20
Calcium (Ca)-Total			100.8		%		80-120	16-NOV-20
Cesium (Cs)-Total			102.9		%		80-120	16-NOV-20
Chromium (Cr)-Total			102.1		%		80-120	16-NOV-20
Cobalt (Co)-Total			103.4		%		80-120	16-NOV-20
Copper (Cu)-Total			100.4		%		80-120	16-NOV-20
Iron (Fe)-Total			119.3		%		80-120	16-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5286651								
WG3443861-2 LCS								
Lead (Pb)-Total			100.1		%		80-120	16-NOV-20
Lithium (Li)-Total			101.3		%		80-120	16-NOV-20
Magnesium (Mg)-Total			104.5		%		80-120	16-NOV-20
Manganese (Mn)-Total			100.8		%		80-120	16-NOV-20
Molybdenum (Mo)-Total			102.1		%		80-120	16-NOV-20
Nickel (Ni)-Total			101.2		%		80-120	16-NOV-20
Phosphorus (P)-Total			107.5		%		80-120	16-NOV-20
Potassium (K)-Total			103.0		%		80-120	16-NOV-20
Rubidium (Rb)-Total			103.6		%		80-120	16-NOV-20
Selenium (Se)-Total			102.4		%		80-120	16-NOV-20
Silicon (Si)-Total			104.9		%		80-120	16-NOV-20
Silver (Ag)-Total			102.2		%		80-120	16-NOV-20
Sodium (Na)-Total			100.8		%		80-120	16-NOV-20
Strontium (Sr)-Total			106.2		%		80-120	16-NOV-20
Sulfur (S)-Total			98.2		%		80-120	16-NOV-20
Tellurium (Te)-Total			102.4		%		80-120	16-NOV-20
Thallium (Tl)-Total			100.0		%		80-120	16-NOV-20
Thorium (Th)-Total			105.8		%		80-120	16-NOV-20
Tin (Sn)-Total			98.4		%		80-120	16-NOV-20
Titanium (Ti)-Total			100.9		%		80-120	16-NOV-20
Tungsten (W)-Total			101.6		%		80-120	16-NOV-20
Uranium (U)-Total			103.3		%		80-120	16-NOV-20
Vanadium (V)-Total			103.4		%		80-120	16-NOV-20
Zinc (Zn)-Total			106.1		%		80-120	16-NOV-20
Zirconium (Zr)-Total			104.8		%		80-120	16-NOV-20
WG3443861-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	16-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Boron (B)-Total			<0.015		mg/L		0.015	16-NOV-20
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	16-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5286651								
WG3443861-1 MB								
Calcium (Ca)-Total			<0.050		mg/L		0.05	16-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	16-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	16-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	16-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	16-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	16-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	16-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	16-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	16-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	16-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Silicon (Si)-Total			<0.80		mg/L		0.8	16-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	16-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	16-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	16-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	16-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	16-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	16-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	16-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	16-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	16-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	16-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	16-NOV-20
NH3-F-TB	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-F-TB	Water							
Batch R5286560								
WG3444442-2 LCS								
Ammonia, Total (as N)			104.1		%		85-115	16-NOV-20
WG3444442-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	16-NOV-20
Batch R5287218								
WG3446434-2 LCS								
Ammonia, Total (as N)			100.4		%		85-115	17-NOV-20
WG3446434-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	17-NOV-20
NO2-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Nitrite (as N)			100.7		%		90-110	14-NOV-20
WG3443088-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	14-NOV-20
NO3-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Nitrate (as N)			108.7		%		90-110	14-NOV-20
WG3443088-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	14-NOV-20
P-T-COL-TB	Water							
Batch R5287691								
WG3444455-2 LCS								
Phosphorus (P)-Total			98.2		%		80-120	18-NOV-20
WG3444455-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	18-NOV-20
PH-TITR-TB	Water							
Batch R5284767								
WG3443090-2 LCS								
pH			6.99		pH		6.9-7.1	12-NOV-20
PO4-DO-COL-TB	Water							
Batch R5284856								
WG3441878-2 LCS								
Orthophosphate-Dissolved (as P)			104.3		%		80-120	12-NOV-20
WG3441878-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PO4-DO-COL-TB	Water							
Batch R5284856								
WG3441878-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	12-NOV-20
SO4-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Sulfate (SO4)			106.0		%		90-110	14-NOV-20
WG3443088-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	14-NOV-20
TDS-TB	Water							
Batch R5284934								
WG3443325-2 LCS								
Total Dissolved Solids			97.0		%		85-115	12-NOV-20
WG3443325-1 MB								
Total Dissolved Solids			<10		mg/L		10	12-NOV-20
TKN-F-TB	Water							
Batch R5285197								
WG3443716-2 LCS								
Total Kjeldahl Nitrogen			90.1		%		75-125	13-NOV-20
WG3443716-1 MB								
Total Kjeldahl Nitrogen			0.096	MB-LOR	mg/L		0.05	13-NOV-20
TOC-WT	Water							
Batch R5288559								
WG3444241-2 LCS								
Total Organic Carbon			97.4		%		80-120	18-NOV-20
WG3444241-1 MB								
Total Organic Carbon			<0.50		mg/L		0.5	18-NOV-20
TSS-TB	Water							
Batch R5284864								
WG3443330-2 LCS								
Total Suspended Solids			94.2		%		85-115	12-NOV-20
WG3443330-1 MB								
Total Suspended Solids			<3.0		mg/L		3	12-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2527908-COFC

COC Number: 17 -

SD

Page 1 of 3

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shaun@firstmininggold.com / shila@firstmininggold
Email 3	john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Project Information	
ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test - Surface Water
PO / AFE:	
LSD:	First Mining Gold Project
ALS Lab Work Order # (lab use only):	L2527908

Oil and Gas Required Fields (client use)			
AFE/Cost Center:		PO#	
Major/Minor Code:		Routing Code:	
Requisitioner:			
Location:			
ALS Contact:		Sampler:	

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days)
- 4 day [P4-20%] ☐
- 3 day [P3-25%] ☐
- 2 day [P2-50%] ☐

EMERGENCY
- 1 Business day [E - 100%] ☐
- Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	F, NO2,NO3, pH, SO4, PO4	TDS, TSS	DOC, COD	TOC, Total Ammonia, Total Phosphorus, TKN	Total Metals	Dissolved Metals, Hardness	Total Mercury	Dissolved Mercury	Total CR6	Dissolved CR6	Dissolved Inorganic Carbon (DIC)	Total Methyl Mercury	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
						F/P	P	P	F/P	P	F/P	P	F/P			P				
	3134-AQ-Lake1-201109	9-Nov-20		Surface Water	11	X	X	X	X	X	X	X	X	X	X	X		x		
	3134-AQ-Lake2-201109	9-Nov-20		Surface Water	11	X	X	X	X	X	X	X	X	X	X	X		x		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☑

Ice Packs ☑ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
1.8							

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by: SD	Date: NOV.10/2020	Time: 11:10

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2019 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 10- NOV- 20
Report Date: 08- DEC- 20 08:40 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2527928

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - GROUNDWATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527928-1 3134-AQ-SPW20-001-20119 Sampled By: Client on 09-NOV-20 @ 09:19 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	1050		1.0	uS/cm		12-NOV-20	R5284767
Hardness (as CaCO3)	526		0.50	mg/L		17-NOV-20	
pH	7.99		0.10	pH		12-NOV-20	R5284767
Total Suspended Solids	<3.0		3.0	mg/L		12-NOV-20	R5284864
Total Dissolved Solids	757		20	mg/L		12-NOV-20	R5284934
Anions and Nutrients							
Acidity (as CaCO3)	8.8		2.0	mg/L		13-NOV-20	R5285085
Alkalinity, Total (as CaCO3)	242		2.0	mg/L		12-NOV-20	R5284767
Ammonia, Total (as N)	0.461		0.0050	mg/L	14-NOV-20	16-NOV-20	R5286560
Bromide (Br)	0.37		0.10	mg/L	11-NOV-20	14-NOV-20	R5285959
Chloride (Cl)	19.0		0.10	mg/L	11-NOV-20	14-NOV-20	R5285959
Fluoride (F)	0.080		0.020	mg/L	11-NOV-20	14-NOV-20	R5285959
Nitrate (as N)	<0.020		0.020	mg/L	11-NOV-20	14-NOV-20	R5285959
Nitrite (as N)	<0.010		0.010	mg/L	11-NOV-20	14-NOV-20	R5285959
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	09-NOV-20	12-NOV-20	R5284856
Phosphorus (P)-Total	0.0058		0.0030	mg/L	17-NOV-20	18-NOV-20	R5287691
Sulfate (SO4)	116		0.30	mg/L	11-NOV-20	14-NOV-20	R5285959
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				09-NOV-20	12-NOV-20	R5284649
Dissolved Organic Carbon	12.3	DLM	2.5	mg/L	09-NOV-20	17-NOV-20	R5287255
Total Metals							
Aluminum (Al)-Total	0.0161		0.0030	mg/L	13-NOV-20	16-NOV-20	R5286651
Antimony (Sb)-Total	0.00020		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Arsenic (As)-Total	0.00445		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Barium (Ba)-Total	0.106		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Beryllium (Be)-Total	0.00014		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Boron (B)-Total	0.033		0.010	mg/L	13-NOV-20	16-NOV-20	R5286651
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Calcium (Ca)-Total	179		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Cesium (Cs)-Total	0.000474		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Chromium (Cr)-Total	0.00044		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Cobalt (Co)-Total	0.00014		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Copper (Cu)-Total	<0.00050		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Iron (Fe)-Total	1.53		0.010	mg/L	13-NOV-20	16-NOV-20	R5286651
Lead (Pb)-Total	0.000219		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Lithium (Li)-Total	0.0029		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286651
Magnesium (Mg)-Total	19.3		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286651
Manganese (Mn)-Total	0.504		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Molybdenum (Mo)-Total	0.00218		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Nickel (Ni)-Total	0.00083		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Phosphorus (P)-Total	<0.050		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527928-1 3134-AQ-SPW20-001-20119 Sampled By: Client on 09-NOV-20 @ 09:19 Matrix: Groundwater							
Total Metals							
Potassium (K)-Total	2.39		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Rubidium (Rb)-Total	0.00302		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Selenium (Se)-Total	0.000055		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Silicon (Si)-Total	7.27		0.10	mg/L	13-NOV-20	16-NOV-20	R5286651
Silver (Ag)-Total	0.000012		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Sodium (Na)-Total	24.6		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Strontium (Sr)-Total	4.69		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Sulfur (S)-Total	103		0.50	mg/L	13-NOV-20	16-NOV-20	R5286651
Tellurium (Te)-Total	0.00042		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Thorium (Th)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Tin (Sn)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Titanium (Ti)-Total	<0.00063	DLM	0.00063	mg/L	13-NOV-20	16-NOV-20	R5286651
Tungsten (W)-Total	0.00471		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Uranium (U)-Total	0.000483		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Vanadium (V)-Total	0.00193		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Zinc (Zn)-Total	0.0070		0.0030	mg/L	13-NOV-20	16-NOV-20	R5286651
Zirconium (Zr)-Total	0.00427		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					13-NOV-20	R5284771
Dissolved Metals Filtration Location	FIELD					13-NOV-20	R5286077
Aluminum (Al)-Dissolved	0.0098		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Antimony (Sb)-Dissolved	0.00019		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Arsenic (As)-Dissolved	0.00414		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Barium (Ba)-Dissolved	0.104		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Beryllium (Be)-Dissolved	0.00014		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Boron (B)-Dissolved	0.032		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Calcium (Ca)-Dissolved	179		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Cesium (Cs)-Dissolved	0.000471		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Chromium (Cr)-Dissolved	0.00038		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cobalt (Co)-Dissolved	0.00013		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Iron (Fe)-Dissolved	1.49		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Lead (Pb)-Dissolved	0.000163		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Lithium (Li)-Dissolved	0.0036		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Magnesium (Mg)-Dissolved	19.0		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286710
Manganese (Mn)-Dissolved	0.510		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	13-NOV-20	R5285167
Molybdenum (Mo)-Dissolved	0.00211		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527928-1 3134-AQ-SPW20-001-20119 Sampled By: Client on 09-NOV-20 @ 09:19 Matrix: Groundwater							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00083		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Potassium (K)-Dissolved	2.48		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Rubidium (Rb)-Dissolved	0.00300		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Silicon (Si)-Dissolved	7.41		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Sodium (Na)-Dissolved	24.8		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Strontium (Sr)-Dissolved	4.58		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Sulfur (S)-Dissolved	110		0.50	mg/L	13-NOV-20	16-NOV-20	R5286710
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Titanium (Ti)-Dissolved	<0.00045	DLM	0.00045	mg/L	13-NOV-20	16-NOV-20	R5286710
Tungsten (W)-Dissolved	0.00453		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Uranium (U)-Dissolved	0.000497		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Vanadium (V)-Dissolved	0.00163		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Zinc (Zn)-Dissolved	0.0082		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Zirconium (Zr)-Dissolved	0.00411		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		13-NOV-20	R5286040

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2527928-1
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2527928-1
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2527928-1
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2527928-1
Matrix Spike	Ammonia, Total (as N)	MS-B	L2527928-1
Matrix Spike	Sulfate (SO4)	MS-B	L2527928-1

Sample Parameter Qualifier key listed:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Reference Information

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5285085								
WG3443092-2 LCS								
Acidity (as CaCO3)			99.4		%		85-115	13-NOV-20
WG3443092-1 MB								
Acidity (as CaCO3)			2.0		mg/L		4	13-NOV-20
ALK-TITR-TB	Water							
Batch R5284767								
WG3443090-2 LCS								
Alkalinity, Total (as CaCO3)			104.0		%		85-115	12-NOV-20
WG3443090-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	12-NOV-20
BR-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Bromide (Br)			101.3		%		85-115	14-NOV-20
WG3443088-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	14-NOV-20
CL-L-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Chloride (Cl)			103.8		%		90-110	14-NOV-20
WG3443088-1 MB								
Chloride (Cl)			<0.30		mg/L		0.3	14-NOV-20
CR-CR6-DIS-WT	Water							
Batch R5286040								
WG3444646-2 LCS								
Chromium (VI)-Dissolved			100.1		%		70-130	13-NOV-20
WG3444646-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	13-NOV-20
DOC-WT	Water							
Batch R5287255								
WG3444095-2 LCS								
Dissolved Organic Carbon			95.5		%		80-120	17-NOV-20
WG3444095-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	17-NOV-20
EC-TITR-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-TITR-TB	Water							
Batch R5284767								
WG3443090-2 LCS								
Conductivity (EC)			98.2		%		90-110	12-NOV-20
WG3443090-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	12-NOV-20
F-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Fluoride (F)			104.1		%		90-110	14-NOV-20
WG3443088-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	14-NOV-20
HG-D-CVAA-WT	Water							
Batch R5285167								
WG3444280-2 LCS								
Mercury (Hg)-Dissolved			94.1		%		80-120	13-NOV-20
WG3444280-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	13-NOV-20
MET-D-CCMS-TB	Water							
Batch R5286710								
WG3444592-6 LCS								
Aluminum (Al)-Dissolved			102.3		%		80-120	16-NOV-20
Antimony (Sb)-Dissolved			98.9		%		80-120	16-NOV-20
Arsenic (As)-Dissolved			104.2		%		80-120	16-NOV-20
Barium (Ba)-Dissolved			101.7		%		80-120	16-NOV-20
Beryllium (Be)-Dissolved			100.1		%		80-120	16-NOV-20
Bismuth (Bi)-Dissolved			106.3		%		80-120	16-NOV-20
Boron (B)-Dissolved			89.9		%		80-120	16-NOV-20
Cadmium (Cd)-Dissolved			102.7		%		80-120	16-NOV-20
Calcium (Ca)-Dissolved			101.8		%		80-120	16-NOV-20
Cesium (Cs)-Dissolved			104.2		%		80-120	16-NOV-20
Chromium (Cr)-Dissolved			101.8		%		80-120	16-NOV-20
Cobalt (Co)-Dissolved			100.3		%		80-120	16-NOV-20
Copper (Cu)-Dissolved			99.7		%		80-120	16-NOV-20
Iron (Fe)-Dissolved			119.6		%		80-120	16-NOV-20
Lead (Pb)-Dissolved			100.3		%		80-120	16-NOV-20
Lithium (Li)-Dissolved			102.8		%		80-120	16-NOV-20
Magnesium (Mg)-Dissolved			100.2		%		80-120	16-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5286710								
WG3444592-6 LCS								
Manganese (Mn)-Dissolved			99.2		%		80-120	16-NOV-20
Molybdenum (Mo)-Dissolved			103.5		%		80-120	16-NOV-20
Nickel (Ni)-Dissolved			100.9		%		80-120	16-NOV-20
Phosphorus (P)-Dissolved			104.2		%		80-120	16-NOV-20
Potassium (K)-Dissolved			102.5		%		80-120	16-NOV-20
Rubidium (Rb)-Dissolved			100.5		%		80-120	16-NOV-20
Selenium (Se)-Dissolved			100.7		%		80-120	16-NOV-20
Silicon (Si)-Dissolved			105.8		%		80-120	16-NOV-20
Silver (Ag)-Dissolved			102.4		%		80-120	16-NOV-20
Sodium (Na)-Dissolved			102.3		%		80-120	16-NOV-20
Strontium (Sr)-Dissolved			105.6		%		80-120	16-NOV-20
Sulfur (S)-Dissolved			96.8		%		80-120	16-NOV-20
Tellurium (Te)-Dissolved			110.7		%		80-120	16-NOV-20
Thallium (Tl)-Dissolved			100.7		%		80-120	16-NOV-20
Thorium (Th)-Dissolved			106.1		%		80-120	16-NOV-20
Tin (Sn)-Dissolved			99.7		%		80-120	16-NOV-20
Titanium (Ti)-Dissolved			100.0		%		80-120	16-NOV-20
Tungsten (W)-Dissolved			101.8		%		80-120	16-NOV-20
Uranium (U)-Dissolved			108.4		%		80-120	16-NOV-20
Vanadium (V)-Dissolved			101.2		%		80-120	16-NOV-20
Zinc (Zn)-Dissolved			107.0		%		80-120	16-NOV-20
Zirconium (Zr)-Dissolved			107.3		%		80-120	16-NOV-20
WG3444592-5 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	16-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	16-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	16-NOV-20
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	16-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	16-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	16-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5286710								
WG3444592-5 MB								
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	16-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	16-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	16-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	16-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	16-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	16-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	16-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	16-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	16-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	16-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	16-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	16-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	16-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	16-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	16-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	16-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	16-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	16-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	16-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	16-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	16-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	16-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	16-NOV-20
MET-T-CCMS-TB	Water							
Batch R5286651								
WG3443861-2 LCS								
Aluminum (Al)-Total			102.2		%		80-120	16-NOV-20
Antimony (Sb)-Total			101.7		%		80-120	16-NOV-20
Arsenic (As)-Total			105.0		%		80-120	16-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5286651								
WG3443861-2 LCS								
Barium (Ba)-Total			99.6		%		80-120	16-NOV-20
Beryllium (Be)-Total			96.8		%		80-120	16-NOV-20
Bismuth (Bi)-Total			99.7		%		80-120	16-NOV-20
Boron (B)-Total			89.3		%		80-120	16-NOV-20
Cadmium (Cd)-Total			103.3		%		80-120	16-NOV-20
Calcium (Ca)-Total			100.8		%		80-120	16-NOV-20
Cesium (Cs)-Total			102.9		%		80-120	16-NOV-20
Chromium (Cr)-Total			102.1		%		80-120	16-NOV-20
Cobalt (Co)-Total			103.4		%		80-120	16-NOV-20
Copper (Cu)-Total			100.4		%		80-120	16-NOV-20
Iron (Fe)-Total			119.3		%		80-120	16-NOV-20
Lead (Pb)-Total			100.1		%		80-120	16-NOV-20
Lithium (Li)-Total			101.3		%		80-120	16-NOV-20
Magnesium (Mg)-Total			104.5		%		80-120	16-NOV-20
Manganese (Mn)-Total			100.8		%		80-120	16-NOV-20
Molybdenum (Mo)-Total			102.1		%		80-120	16-NOV-20
Nickel (Ni)-Total			101.2		%		80-120	16-NOV-20
Phosphorus (P)-Total			107.5		%		80-120	16-NOV-20
Potassium (K)-Total			103.0		%		80-120	16-NOV-20
Rubidium (Rb)-Total			103.6		%		80-120	16-NOV-20
Selenium (Se)-Total			102.4		%		80-120	16-NOV-20
Silicon (Si)-Total			104.9		%		80-120	16-NOV-20
Silver (Ag)-Total			102.2		%		80-120	16-NOV-20
Sodium (Na)-Total			100.8		%		80-120	16-NOV-20
Strontium (Sr)-Total			106.2		%		80-120	16-NOV-20
Sulfur (S)-Total			98.2		%		80-120	16-NOV-20
Tellurium (Te)-Total			102.4		%		80-120	16-NOV-20
Thallium (Tl)-Total			100.0		%		80-120	16-NOV-20
Thorium (Th)-Total			105.8		%		80-120	16-NOV-20
Tin (Sn)-Total			98.4		%		80-120	16-NOV-20
Titanium (Ti)-Total			100.9		%		80-120	16-NOV-20
Tungsten (W)-Total			101.6		%		80-120	16-NOV-20
Uranium (U)-Total			103.3		%		80-120	16-NOV-20
Vanadium (V)-Total			103.4		%		80-120	16-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5286651								
WG3443861-2 LCS								
Zinc (Zn)-Total			106.1		%		80-120	16-NOV-20
Zirconium (Zr)-Total			104.8		%		80-120	16-NOV-20
WG3443861-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	16-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Boron (B)-Total			<0.015		mg/L		0.015	16-NOV-20
Cadmium (Cd)-Total			<0.000005C		mg/L		0.000005	16-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	16-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	16-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	16-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	16-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	16-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	16-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	16-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	16-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	16-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	16-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Silicon (Si)-Total			<0.80		mg/L		0.8	16-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	16-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	16-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	16-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	16-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	16-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	16-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5286651								
WG3443861-1 MB								
Thorium (Th)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	16-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	16-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	16-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	16-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	16-NOV-20
NH3-F-TB	Water							
Batch R5286560								
WG3445171-2 LCS								
Ammonia, Total (as N)			100.1		%		85-115	16-NOV-20
WG3445171-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	16-NOV-20
NO2-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Nitrite (as N)			100.7		%		90-110	14-NOV-20
WG3443088-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	14-NOV-20
NO3-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Nitrate (as N)			108.7		%		90-110	14-NOV-20
WG3443088-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	14-NOV-20
P-T-COL-TB	Water							
Batch R5287691								
WG3445184-6 LCS								
Phosphorus (P)-Total			100.2		%		80-120	18-NOV-20
WG3445184-5 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	18-NOV-20
PH-TITR-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-TITR-TB	Water							
Batch R5284767								
WG3443090-2 LCS								
pH			6.99		pH		6.9-7.1	12-NOV-20
PO4-DO-COL-TB	Water							
Batch R5284856								
WG3441878-2 LCS								
Orthophosphate-Dissolved (as P)			104.3		%		80-120	12-NOV-20
WG3441878-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	12-NOV-20
SO4-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Sulfate (SO4)			106.0		%		90-110	14-NOV-20
WG3443088-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	14-NOV-20
TDS-TB	Water							
Batch R5284934								
WG3443325-2 LCS								
Total Dissolved Solids			97.0		%		85-115	12-NOV-20
WG3443325-1 MB								
Total Dissolved Solids			<10		mg/L		10	12-NOV-20
TSS-TB	Water							
Batch R5284864								
WG3443330-2 LCS								
Total Suspended Solids			94.2		%		85-115	12-NOV-20
WG3443330-1 MB								
Total Suspended Solids			<3.0		mg/L		3	12-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2527928-COFC

COC Number: 17 -

SD

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Quality Control (QC) Report with Report ☐ YES ☐ NO

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1: dmchaina@firstmininggold.com

Email 2: shaun@firstmininggold.com / shila@firstmininggold.

Email 3: john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accountspayable@firstmininggold.com

Email 2: dmchaina@firstmininggold.com

Project Information

ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test - Groundwater
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#:
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2527928

ALS Contact: | Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	F, NO2,NO3, pH, SO4, PO4	TDS, TSS	DOC	Total Ammonia, Total Phosphorus	Total Metals	Dissolved Metals, Hardness	Dissolved Mercury	Dissolved CR6		Dissolved Inorganic Carbon (DIC)				SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
									F/P	P	P	F/P	F/P	F/P							
	3134-AQ-SPW20-001-201109	9-Nov-20	9:19	Groundwater	7	X	X	X	X	X	X	X	X	X							

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☑

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.8							

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
SD	NOV.10/2020	11:10

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2015 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 10-NOV-20
Report Date: 28-JAN-21 08:50 (MT)
Version: FINAL REV. 2

Client Phone: 844-306-8827

Certificate of Analysis

Lab Work Order #: L2527928

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - GROUNDWATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project

C. Paradis

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527928-1 3134-AQ-SPW20-001-20119 Sampled By: Client on 09-NOV-20 @ 09:19 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	1050		1.0	uS/cm		12-NOV-20	R5284767
Hardness (as CaCO3)	526		0.50	mg/L		17-NOV-20	
pH	7.99		0.10	pH		12-NOV-20	R5284767
Total Suspended Solids	<3.0		3.0	mg/L		12-NOV-20	R5284864
Total Dissolved Solids	757		20	mg/L		12-NOV-20	R5284934
Anions and Nutrients							
Acidity (as CaCO3)	8.8		2.0	mg/L		13-NOV-20	R5285085
Alkalinity, Total (as CaCO3)	242		2.0	mg/L		12-NOV-20	R5284767
Ammonia, Total (as N)	0.461		0.0050	mg/L	14-NOV-20	16-NOV-20	R5286560
Bromide (Br)	0.83	HTD	0.10	mg/L	26-JAN-21	26-JAN-21	R5358384
Chloride (Cl)	39.8	HTD	0.10	mg/L	26-JAN-21	26-JAN-21	R5358384
Fluoride (F)	0.163	HTD	0.020	mg/L	26-JAN-21	26-JAN-21	R5358384
Nitrate (as N)	<0.020		0.020	mg/L	11-NOV-20	14-NOV-20	R5285959
Nitrite (as N)	<0.010		0.010	mg/L	11-NOV-20	14-NOV-20	R5285959
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	09-NOV-20	12-NOV-20	R5284856
Phosphorus (P)-Total	0.0058		0.0030	mg/L	17-NOV-20	18-NOV-20	R5287691
Sulfate (SO4)	254	HTD	0.30	mg/L	26-JAN-21	26-JAN-21	R5358384
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				09-NOV-20	12-NOV-20	R5284649
Dissolved Organic Carbon	12.3	DLM	2.5	mg/L	09-NOV-20	17-NOV-20	R5287255
Total Metals							
Aluminum (Al)-Total	0.0161		0.0030	mg/L	13-NOV-20	16-NOV-20	R5286651
Antimony (Sb)-Total	0.00020		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Arsenic (As)-Total	0.00445		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Barium (Ba)-Total	0.106		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Beryllium (Be)-Total	0.00014		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Boron (B)-Total	0.033		0.010	mg/L	13-NOV-20	16-NOV-20	R5286651
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Calcium (Ca)-Total	179		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Cesium (Cs)-Total	0.000474		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Chromium (Cr)-Total	0.00044		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Cobalt (Co)-Total	0.00014		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Copper (Cu)-Total	<0.00050		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Iron (Fe)-Total	1.53		0.010	mg/L	13-NOV-20	16-NOV-20	R5286651
Lead (Pb)-Total	0.000219		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Lithium (Li)-Total	0.0029		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286651
Magnesium (Mg)-Total	19.3		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286651
Manganese (Mn)-Total	0.504		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Molybdenum (Mo)-Total	0.00218		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Nickel (Ni)-Total	0.00083		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Phosphorus (P)-Total	<0.050		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527928-1 3134-AQ-SPW20-001-20119 Sampled By: Client on 09-NOV-20 @ 09:19 Matrix: Groundwater							
Total Metals							
Potassium (K)-Total	2.39		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Rubidium (Rb)-Total	0.00302		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Selenium (Se)-Total	0.000055		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286651
Silicon (Si)-Total	7.27		0.10	mg/L	13-NOV-20	16-NOV-20	R5286651
Silver (Ag)-Total	0.000012		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Sodium (Na)-Total	24.6		0.050	mg/L	13-NOV-20	16-NOV-20	R5286651
Strontium (Sr)-Total	4.69		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Sulfur (S)-Total	103		0.50	mg/L	13-NOV-20	16-NOV-20	R5286651
Tellurium (Te)-Total	0.00042		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Thorium (Th)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Tin (Sn)-Total	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Titanium (Ti)-Total	<0.00063	DLM	0.00063	mg/L	13-NOV-20	16-NOV-20	R5286651
Tungsten (W)-Total	0.00471		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286651
Uranium (U)-Total	0.000483		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286651
Vanadium (V)-Total	0.00193		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286651
Zinc (Zn)-Total	0.0070		0.0030	mg/L	13-NOV-20	16-NOV-20	R5286651
Zirconium (Zr)-Total	0.00427		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286651
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					13-NOV-20	R5284771
Dissolved Metals Filtration Location	FIELD					13-NOV-20	R5286077
Aluminum (Al)-Dissolved	0.0098		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Antimony (Sb)-Dissolved	0.00019		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Arsenic (As)-Dissolved	0.00414		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Barium (Ba)-Dissolved	0.104		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Beryllium (Be)-Dissolved	0.00014		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Boron (B)-Dissolved	0.032		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Calcium (Ca)-Dissolved	179		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Cesium (Cs)-Dissolved	0.000471		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Chromium (Cr)-Dissolved	0.00038		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Cobalt (Co)-Dissolved	0.00013		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Iron (Fe)-Dissolved	1.49		0.010	mg/L	13-NOV-20	16-NOV-20	R5286710
Lead (Pb)-Dissolved	0.000163		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Lithium (Li)-Dissolved	0.0036		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Magnesium (Mg)-Dissolved	19.0		0.0050	mg/L	13-NOV-20	16-NOV-20	R5286710
Manganese (Mn)-Dissolved	0.510		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	13-NOV-20	13-NOV-20	R5285167
Molybdenum (Mo)-Dissolved	0.00211		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527928-1 3134-AQ-SPW20-001-20119 Sampled By: Client on 09-NOV-20 @ 09:19 Matrix: Groundwater							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00083		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Potassium (K)-Dissolved	2.48		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Rubidium (Rb)-Dissolved	0.00300		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	13-NOV-20	16-NOV-20	R5286710
Silicon (Si)-Dissolved	7.41		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Sodium (Na)-Dissolved	24.8		0.050	mg/L	13-NOV-20	16-NOV-20	R5286710
Strontium (Sr)-Dissolved	4.58		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Sulfur (S)-Dissolved	110		0.50	mg/L	13-NOV-20	16-NOV-20	R5286710
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Titanium (Ti)-Dissolved	<0.00045	DLM	0.00045	mg/L	13-NOV-20	16-NOV-20	R5286710
Tungsten (W)-Dissolved	0.00453		0.00010	mg/L	13-NOV-20	16-NOV-20	R5286710
Uranium (U)-Dissolved	0.000497		0.000010	mg/L	13-NOV-20	16-NOV-20	R5286710
Vanadium (V)-Dissolved	0.00163		0.00050	mg/L	13-NOV-20	16-NOV-20	R5286710
Zinc (Zn)-Dissolved	0.0082		0.0010	mg/L	13-NOV-20	16-NOV-20	R5286710
Zirconium (Zr)-Dissolved	0.00411		0.00020	mg/L	13-NOV-20	16-NOV-20	R5286710
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		13-NOV-20	R5286040
Report Remarks : RVS: Result Revised from previous report for Sulfate, Chloride, Bromide and Fluoride.							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2527928-1
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2527928-1
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2527928-1
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2527928-1
Matrix Spike	Ammonia, Total (as N)	MS-B	L2527928-1

Sample Parameter Qualifier key listed:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
HTD	Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-TB	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Reference Information

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-TB	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-TB	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

SO4-IC-N-TB	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5285085								
WG3443092-2 LCS								
Acidity (as CaCO3)			99.4		%		85-115	13-NOV-20
WG3443092-1 MB								
Acidity (as CaCO3)			2.0		mg/L		4	13-NOV-20
ALK-TITR-TB	Water							
Batch R5284767								
WG3443090-2 LCS								
Alkalinity, Total (as CaCO3)			104.0		%		85-115	12-NOV-20
WG3443090-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	12-NOV-20
BR-IC-N-TB	Water							
Batch R5358384								
WG3478370-2 LCS								
Bromide (Br)			85.7		%		85-115	26-JAN-21
WG3478370-1 MB								
Bromide (Br)			<0.10		mg/L		0.1	26-JAN-21
CL-L-IC-N-TB	Water							
Batch R5358384								
WG3478370-2 LCS								
Chloride (Cl)			99.9		%		90-110	26-JAN-21
WG3478370-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	26-JAN-21
CR-CR6-DIS-WT	Water							
Batch R5286040								
WG3444646-2 LCS								
Chromium (VI)-Dissolved			100.1		%		70-130	13-NOV-20
WG3444646-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	13-NOV-20
DOC-WT	Water							
Batch R5287255								
WG3444095-2 LCS								
Dissolved Organic Carbon			95.5		%		80-120	17-NOV-20
WG3444095-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	17-NOV-20
EC-TITR-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-TITR-TB	Water							
Batch R5284767								
WG3443090-2 LCS								
Conductivity (EC)			98.2		%		90-110	12-NOV-20
WG3443090-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	12-NOV-20
F-IC-N-TB	Water							
Batch R5358384								
WG3478370-2 LCS								
Fluoride (F)			100.1		%		90-110	26-JAN-21
WG3478370-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	26-JAN-21
HG-D-CVAA-WT	Water							
Batch R5285167								
WG3444280-2 LCS								
Mercury (Hg)-Dissolved			94.1		%		80-120	13-NOV-20
WG3444280-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	13-NOV-20
MET-D-CCMS-TB	Water							
Batch R5286710								
WG3444592-6 LCS								
Aluminum (Al)-Dissolved			102.3		%		80-120	16-NOV-20
Antimony (Sb)-Dissolved			98.9		%		80-120	16-NOV-20
Arsenic (As)-Dissolved			104.2		%		80-120	16-NOV-20
Barium (Ba)-Dissolved			101.7		%		80-120	16-NOV-20
Beryllium (Be)-Dissolved			100.1		%		80-120	16-NOV-20
Bismuth (Bi)-Dissolved			106.3		%		80-120	16-NOV-20
Boron (B)-Dissolved			89.9		%		80-120	16-NOV-20
Cadmium (Cd)-Dissolved			102.7		%		80-120	16-NOV-20
Calcium (Ca)-Dissolved			101.8		%		80-120	16-NOV-20
Cesium (Cs)-Dissolved			104.2		%		80-120	16-NOV-20
Chromium (Cr)-Dissolved			101.8		%		80-120	16-NOV-20
Cobalt (Co)-Dissolved			100.3		%		80-120	16-NOV-20
Copper (Cu)-Dissolved			99.7		%		80-120	16-NOV-20
Iron (Fe)-Dissolved			119.6		%		80-120	16-NOV-20
Lead (Pb)-Dissolved			100.3		%		80-120	16-NOV-20
Lithium (Li)-Dissolved			102.8		%		80-120	16-NOV-20
Magnesium (Mg)-Dissolved			100.2		%		80-120	16-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5286710								
WG3444592-6 LCS								
Manganese (Mn)-Dissolved			99.2		%		80-120	16-NOV-20
Molybdenum (Mo)-Dissolved			103.5		%		80-120	16-NOV-20
Nickel (Ni)-Dissolved			100.9		%		80-120	16-NOV-20
Phosphorus (P)-Dissolved			104.2		%		80-120	16-NOV-20
Potassium (K)-Dissolved			102.5		%		80-120	16-NOV-20
Rubidium (Rb)-Dissolved			100.5		%		80-120	16-NOV-20
Selenium (Se)-Dissolved			100.7		%		80-120	16-NOV-20
Silicon (Si)-Dissolved			105.8		%		80-120	16-NOV-20
Silver (Ag)-Dissolved			102.4		%		80-120	16-NOV-20
Sodium (Na)-Dissolved			102.3		%		80-120	16-NOV-20
Strontium (Sr)-Dissolved			105.6		%		80-120	16-NOV-20
Sulfur (S)-Dissolved			96.8		%		80-120	16-NOV-20
Tellurium (Te)-Dissolved			110.7		%		80-120	16-NOV-20
Thallium (Tl)-Dissolved			100.7		%		80-120	16-NOV-20
Thorium (Th)-Dissolved			106.1		%		80-120	16-NOV-20
Tin (Sn)-Dissolved			99.7		%		80-120	16-NOV-20
Titanium (Ti)-Dissolved			100.0		%		80-120	16-NOV-20
Tungsten (W)-Dissolved			101.8		%		80-120	16-NOV-20
Uranium (U)-Dissolved			108.4		%		80-120	16-NOV-20
Vanadium (V)-Dissolved			101.2		%		80-120	16-NOV-20
Zinc (Zn)-Dissolved			107.0		%		80-120	16-NOV-20
Zirconium (Zr)-Dissolved			107.3		%		80-120	16-NOV-20
WG3444592-5 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	16-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	16-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	16-NOV-20
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	16-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	16-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	16-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5286710								
WG3444592-5 MB								
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	16-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	16-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	16-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	16-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	16-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	16-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	16-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	16-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	16-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	16-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	16-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	16-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	16-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	16-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	16-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	16-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	16-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	16-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	16-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	16-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	16-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	16-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	16-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	16-NOV-20
MET-T-CCMS-TB	Water							
Batch R5286651								
WG3443861-2 LCS								
Aluminum (Al)-Total			102.2		%		80-120	16-NOV-20
Antimony (Sb)-Total			101.7		%		80-120	16-NOV-20
Arsenic (As)-Total			105.0		%		80-120	16-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5286651								
WG3443861-2 LCS								
Barium (Ba)-Total			99.6		%		80-120	16-NOV-20
Beryllium (Be)-Total			96.8		%		80-120	16-NOV-20
Bismuth (Bi)-Total			99.7		%		80-120	16-NOV-20
Boron (B)-Total			89.3		%		80-120	16-NOV-20
Cadmium (Cd)-Total			103.3		%		80-120	16-NOV-20
Calcium (Ca)-Total			100.8		%		80-120	16-NOV-20
Cesium (Cs)-Total			102.9		%		80-120	16-NOV-20
Chromium (Cr)-Total			102.1		%		80-120	16-NOV-20
Cobalt (Co)-Total			103.4		%		80-120	16-NOV-20
Copper (Cu)-Total			100.4		%		80-120	16-NOV-20
Iron (Fe)-Total			119.3		%		80-120	16-NOV-20
Lead (Pb)-Total			100.1		%		80-120	16-NOV-20
Lithium (Li)-Total			101.3		%		80-120	16-NOV-20
Magnesium (Mg)-Total			104.5		%		80-120	16-NOV-20
Manganese (Mn)-Total			100.8		%		80-120	16-NOV-20
Molybdenum (Mo)-Total			102.1		%		80-120	16-NOV-20
Nickel (Ni)-Total			101.2		%		80-120	16-NOV-20
Phosphorus (P)-Total			107.5		%		80-120	16-NOV-20
Potassium (K)-Total			103.0		%		80-120	16-NOV-20
Rubidium (Rb)-Total			103.6		%		80-120	16-NOV-20
Selenium (Se)-Total			102.4		%		80-120	16-NOV-20
Silicon (Si)-Total			104.9		%		80-120	16-NOV-20
Silver (Ag)-Total			102.2		%		80-120	16-NOV-20
Sodium (Na)-Total			100.8		%		80-120	16-NOV-20
Strontium (Sr)-Total			106.2		%		80-120	16-NOV-20
Sulfur (S)-Total			98.2		%		80-120	16-NOV-20
Tellurium (Te)-Total			102.4		%		80-120	16-NOV-20
Thallium (Tl)-Total			100.0		%		80-120	16-NOV-20
Thorium (Th)-Total			105.8		%		80-120	16-NOV-20
Tin (Sn)-Total			98.4		%		80-120	16-NOV-20
Titanium (Ti)-Total			100.9		%		80-120	16-NOV-20
Tungsten (W)-Total			101.6		%		80-120	16-NOV-20
Uranium (U)-Total			103.3		%		80-120	16-NOV-20
Vanadium (V)-Total			103.4		%		80-120	16-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5286651								
WG3443861-2 LCS								
Zinc (Zn)-Total			106.1		%		80-120	16-NOV-20
Zirconium (Zr)-Total			104.8		%		80-120	16-NOV-20
WG3443861-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	16-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Boron (B)-Total			<0.015		mg/L		0.015	16-NOV-20
Cadmium (Cd)-Total			<0.000005C		mg/L		0.000005	16-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	16-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	16-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	16-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	16-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	16-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	16-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	16-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	16-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	16-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	16-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	16-NOV-20
Silicon (Si)-Total			<0.80		mg/L		0.8	16-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	16-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	16-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	16-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	16-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	16-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	16-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5286651								
WG3443861-1 MB								
Thorium (Th)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	16-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	16-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	16-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	16-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	16-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	16-NOV-20
NH3-F-TB	Water							
Batch R5286560								
WG3445171-2 LCS								
Ammonia, Total (as N)			100.1		%		85-115	16-NOV-20
WG3445171-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	16-NOV-20
NO2-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Nitrite (as N)			100.7		%		90-110	14-NOV-20
WG3443088-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	14-NOV-20
NO3-IC-N-TB	Water							
Batch R5285959								
WG3443088-2 LCS								
Nitrate (as N)			108.7		%		90-110	14-NOV-20
WG3443088-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	14-NOV-20
P-T-COL-TB	Water							
Batch R5287691								
WG3445184-6 LCS								
Phosphorus (P)-Total			100.2		%		80-120	18-NOV-20
WG3445184-5 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	18-NOV-20
PH-TITR-TB	Water							

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-TITR-TB	Water							
Batch R5284767								
WG3443090-2 LCS								
pH			6.99		pH		6.9-7.1	12-NOV-20
PO4-DO-COL-TB	Water							
Batch R5284856								
WG3441878-2 LCS								
Orthophosphate-Dissolved (as P)			104.3		%		80-120	12-NOV-20
WG3441878-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	12-NOV-20
SO4-IC-N-TB	Water							
Batch R5358384								
WG3478370-2 LCS								
Sulfate (SO4)			99.5		%		90-110	26-JAN-21
WG3478370-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	26-JAN-21
TDS-TB	Water							
Batch R5284934								
WG3443325-2 LCS								
Total Dissolved Solids			97.0		%		85-115	12-NOV-20
WG3443325-1 MB								
Total Dissolved Solids			<10		mg/L		10	12-NOV-20
TSS-TB	Water							
Batch R5284864								
WG3443330-2 LCS								
Total Suspended Solids			94.2		%		85-115	12-NOV-20
WG3443330-1 MB								
Total Suspended Solids			<3.0		mg/L		3	12-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Leachable Anions & Nutrients							
Bromide in Water by IC							
	1	09-NOV-20 09:19	26-JAN-21 14:00	28	78	days	EHT
Chloride in Water by IC (Low Level)							
	1	09-NOV-20 09:19	26-JAN-21 14:00	28	78	days	EHT
Fluoride in Water by IC							
	1	09-NOV-20 09:19	26-JAN-21 14:00	28	78	days	EHT
Sulfate in Water by IC							
	1	09-NOV-20 09:19	26-JAN-21 14:00	28	78	days	EHT

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2527928 were received on 10-NOV-20 11:10.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2527928-COFC

COC Number: 17 -

SD

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Quality Control (QC) Report with Report ☐ YES ☐ NO

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1: dmchaina@firstmininggold.com

Email 2: shaun@firstmininggold.com / shila@firstmininggold.

Email 3: john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accountspayable@firstmininggold.com

Email 2: dmchaina@firstmininggold.com

Project Information

ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test - Groundwater
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#:
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2527928

ALS Contact: | Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	F, NO2,NO3, pH, SO4, PO4	TDS, TSS	DOC	Total Ammonia, Total Phosphorus	Total Metals	Dissolved Metals, Hardness	Dissolved Mercury	Dissolved CR6		Dissolved Inorganic Carbon (DIC)				SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
									F/P	P	P	F/P	F/P	F/P							
	3134-AQ-SPW20-001-201109	9-Nov-20	9:19	Groundwater	7	X	X	X	X	X	X	X	X	X							

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☑

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.8							

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
SD	NOV.10/2020	11:10

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2015 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 10- NOV- 20
Report Date: 08- DEC- 20 07:58 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2527938

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - CHLORIDE
C of C Numbers:
Legal Site Desc: Firsting Mining Gold Project

Christine Paradis
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2527938-1 3134-AQ-SPW20-001-201105 Sampled By: Client on 05-NOV-20 @ 15:33 Matrix: Groundwater							
Anions and Nutrients							
Chloride (Cl)	47.4		0.10	mg/L	11-NOV-20	14-NOV-20	R5285959
L2527938-2 3134-AQ-SPW20-001-201106 Sampled By: Client on 06-NOV-20 @ 15:08 Matrix: Groundwater							
Anions and Nutrients							
Chloride (Cl)	47.0		0.10	mg/L	11-NOV-20	14-NOV-20	R5285959
L2527938-3 3134-AQ-SPW20-001-201107 Sampled By: Client on 07-NOV-20 @ 14:20 Matrix: Groundwater							
Anions and Nutrients							
Chloride (Cl)	48.4		0.10	mg/L	11-NOV-20	14-NOV-20	R5285959
L2527938-4 3134-AQ-SPW20-001-201108 Sampled By: Client on 08-NOV-20 @ 14:45 Matrix: Groundwater							
Anions and Nutrients							
Chloride (Cl)	52.2		0.20	mg/L	11-NOV-20	14-NOV-20	R5285959

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
CL-L-IC-N-TB	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-TB	Water							
Batch R5285959								
WG3443134-2 LCS								
Chloride (Cl)			102.6		%		90-110	14-NOV-20
WG3443134-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	14-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2527938-COFC

COC Number: 17 -

SD

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9855
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shaun@firstmininggold.com / shile@firstmininggold.
Email 3	john_ffc@nfld.net / eunjeong_ffc@nfld.net
Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Project Information	
ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test - Chloride
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2527938 | **ALS Contact:** | **Sampler:**

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Chloride	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	3134-AQ-SPW20-001-201105	5-Nov-20	15:33	Groundwater	1	X		
	3134-AQ-SPW20-001-201106	6-Nov-20	15:08	Groundwater	1	X		
	3134-AQ-SPW20-001-201107	7-Nov-20	14:20	Groundwater	1	X		
	3134-AQ-SPW20-001-201108	8-Nov-20	14:45	Groundwater	1	X		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☑

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.8							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by: SD	Date: NOV. 10 / 2020	Time: 11:10	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

AK

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 21- NOV- 20
Report Date: 08- DEC- 20 09:33 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2532169

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - GROUNDWATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project



Christine Paradis
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532169-1 SP-GW-BL235 Sampled By: Client on 15-NOV-20 @ 10:08 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	525		1.0	uS/cm		21-NOV-20	R5294240
Hardness (as CaCO3)	277		0.50	mg/L		27-NOV-20	
pH	7.52		0.10	pH		21-NOV-20	R5294240
Total Suspended Solids	<3.0		3.0	mg/L		21-NOV-20	R5293843
Total Dissolved Solids	344		20	mg/L		21-NOV-20	R5294756
Anions and Nutrients							
Acidity (as CaCO3)	7.3		2.0	mg/L		23-NOV-20	R5296488
Alkalinity, Total (as CaCO3)	252		2.0	mg/L		21-NOV-20	R5294240
Ammonia, Total (as N)	0.372		0.0050	mg/L	21-NOV-20	23-NOV-20	R5296490
Bromide (Br)	<0.10		0.10	mg/L		25-NOV-20	R5299112
Chloride (Cl)	0.21		0.10	mg/L		25-NOV-20	R5299112
Fluoride (F)	0.123		0.020	mg/L		25-NOV-20	R5299112
Nitrate (as N)	<0.020		0.020	mg/L		25-NOV-20	R5299112
Nitrite (as N)	<0.010		0.010	mg/L		25-NOV-20	R5299112
Phosphorus (P)-Total	0.0156		0.0030	mg/L	24-NOV-20	24-NOV-20	R5297194
Silica, Reactive (as SiO2)	12.8		1.0	mg/L		26-NOV-20	R5298774
Sulfate (SO4)	42.7		0.30	mg/L		25-NOV-20	R5299112
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		24-NOV-20	R5296892
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				15-NOV-20	24-NOV-20	R5297021
Dissolved Organic Carbon	11.7		0.50	mg/L	15-NOV-20	26-NOV-20	R5298816
Total Metals							
Aluminum (Al)-Total	0.0186		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Arsenic (As)-Total	0.00259		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Barium (Ba)-Total	0.128		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Beryllium (Be)-Total	0.00014		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Boron (B)-Total	<0.010		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Calcium (Ca)-Total	87.7		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Cesium (Cs)-Total	0.000305		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Chromium (Cr)-Total	0.00034		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cobalt (Co)-Total	0.00039		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Copper (Cu)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Iron (Fe)-Total	2.01		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Lead (Pb)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Lithium (Li)-Total	0.0032		0.0010	mg/L	26-NOV-20	26-NOV-20	R5298612
Magnesium (Mg)-Total	15.8		0.0050	mg/L	26-NOV-20	26-NOV-20	R5298612
Manganese (Mn)-Total	0.605		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Molybdenum (Mo)-Total	0.000933		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532169-1 SP-GW-BL235 Sampled By: Client on 15-NOV-20 @ 10:08 Matrix: Groundwater							
Total Metals							
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Potassium (K)-Total	2.14		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Rubidium (Rb)-Total	0.00243		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Selenium (Se)-Total	0.000058		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Silicon (Si)-Total	6.45		0.10	mg/L	26-NOV-20	26-NOV-20	R5298612
Silver (Ag)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Sodium (Na)-Total	2.07		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Strontium (Sr)-Total	0.590		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Sulfur (S)-Total	15.5		0.50	mg/L	26-NOV-20	26-NOV-20	R5298612
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Thorium (Th)-Total	0.00011		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Titanium (Ti)-Total	0.00166		0.00030	mg/L	26-NOV-20	26-NOV-20	R5298612
Tungsten (W)-Total	0.00153		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Uranium (U)-Total	0.000870		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Vanadium (V)-Total	0.00170		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Zirconium (Zr)-Total	0.00696		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298102
Dissolved Metals Filtration Location	FIELD					24-NOV-20	R5297949
Aluminum (Al)-Dissolved	0.0187		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Arsenic (As)-Dissolved	0.00196		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Barium (Ba)-Dissolved	0.126		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Beryllium (Be)-Dissolved	0.00015		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Boron (B)-Dissolved	0.012		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Calcium (Ca)-Dissolved	85.2		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Cesium (Cs)-Dissolved	0.000329		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Chromium (Cr)-Dissolved	0.00032		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cobalt (Co)-Dissolved	0.00038		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Iron (Fe)-Dissolved	1.96		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Lithium (Li)-Dissolved	0.0033		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Magnesium (Mg)-Dissolved	15.6		0.0050	mg/L	24-NOV-20	25-NOV-20	R5298218
Manganese (Mn)-Dissolved	0.589		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532169-1 SP-GW-BL235 Sampled By: Client on 15-NOV-20 @ 10:08 Matrix: Groundwater							
Dissolved Metals							
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298811
Molybdenum (Mo)-Dissolved	0.000932		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Potassium (K)-Dissolved	2.11		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Rubidium (Rb)-Dissolved	0.00237		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Selenium (Se)-Dissolved	0.000074		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silicon (Si)-Dissolved	5.94		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Sodium (Na)-Dissolved	2.11		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Strontium (Sr)-Dissolved	0.599		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Sulfur (S)-Dissolved	13.9		0.50	mg/L	24-NOV-20	25-NOV-20	R5298218
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Titanium (Ti)-Dissolved	0.00155		0.00030	mg/L	24-NOV-20	25-NOV-20	R5298218
Tungsten (W)-Dissolved	0.00139		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Uranium (U)-Dissolved	0.000840		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Vanadium (V)-Dissolved	0.00152		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Zinc (Zn)-Dissolved	0.0014		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Zirconium (Zr)-Dissolved	0.00665		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
L2532169-2 SP-GW-BL385 Sampled By: Client on 15-NOV-20 @ 11:48 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	462		1.0	uS/cm		21-NOV-20	R5294240
Hardness (as CaCO3)	232		0.50	mg/L		27-NOV-20	
pH	7.48		0.10	pH		21-NOV-20	R5294240
Total Suspended Solids	22.4		3.0	mg/L		21-NOV-20	R5293843
Total Dissolved Solids	278		20	mg/L		21-NOV-20	R5294756
Anions and Nutrients							
Acidity (as CaCO3)	6.1		2.0	mg/L		23-NOV-20	R5296488
Alkalinity, Total (as CaCO3)	216		2.0	mg/L		21-NOV-20	R5294240
Ammonia, Total (as N)	0.0130		0.0050	mg/L	21-NOV-20	23-NOV-20	R5296490
Bromide (Br)	0.24		0.10	mg/L		25-NOV-20	R5299112
Chloride (Cl)	14.6		0.10	mg/L		25-NOV-20	R5299112
Fluoride (F)	0.038		0.020	mg/L		25-NOV-20	R5299112
Nitrate (as N)	0.052		0.020	mg/L		25-NOV-20	R5299112
Nitrite (as N)	<0.010		0.010	mg/L		25-NOV-20	R5299112
Phosphorus (P)-Total	0.0069		0.0030	mg/L	24-NOV-20	24-NOV-20	R5297194
Silica, Reactive (as SiO2)	11.9		1.0	mg/L		26-NOV-20	R5298774

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532169-2 SP-GW-BL385 Sampled By: Client on 15-NOV-20 @ 11:48 Matrix: Groundwater							
Anions and Nutrients							
Sulfate (SO4)	16.0		0.30	mg/L		25-NOV-20	R5299112
Cyanides							
Cyanide, Total	<0.0020		0.0020	mg/L		24-NOV-20	R5296892
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				15-NOV-20	24-NOV-20	R5297021
Dissolved Organic Carbon	5.43		0.50	mg/L	15-NOV-20	26-NOV-20	R5298816
Total Metals							
Aluminum (Al)-Total	0.0954		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Antimony (Sb)-Total	0.00188		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Arsenic (As)-Total	0.00634		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Barium (Ba)-Total	0.0679		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Boron (B)-Total	0.010		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cadmium (Cd)-Total	0.0000051		0.0000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Calcium (Ca)-Total	70.9		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Cesium (Cs)-Total	0.000135		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Chromium (Cr)-Total	0.00191		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cobalt (Co)-Total	0.00045		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Copper (Cu)-Total	0.00274		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Iron (Fe)-Total	3.06		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Lead (Pb)-Total	0.000167		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Lithium (Li)-Total	0.0013		0.0010	mg/L	26-NOV-20	26-NOV-20	R5298612
Magnesium (Mg)-Total	14.2		0.0050	mg/L	26-NOV-20	26-NOV-20	R5298612
Manganese (Mn)-Total	0.112		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Molybdenum (Mo)-Total	0.000976		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Nickel (Ni)-Total	0.00185		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Potassium (K)-Total	0.909		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Rubidium (Rb)-Total	0.00194		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Selenium (Se)-Total	0.000133		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Silicon (Si)-Total	6.19		0.10	mg/L	26-NOV-20	26-NOV-20	R5298612
Silver (Ag)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Sodium (Na)-Total	3.09		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Strontium (Sr)-Total	0.206		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Sulfur (S)-Total	5.92		0.50	mg/L	26-NOV-20	26-NOV-20	R5298612
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Tin (Sn)-Total	0.00015		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Titanium (Ti)-Total	0.00255		0.00030	mg/L	26-NOV-20	26-NOV-20	R5298612
Tungsten (W)-Total	0.00055		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532169-2 SP-GW-BL385 Sampled By: Client on 15-NOV-20 @ 11:48 Matrix: Groundwater							
Total Metals							
Uranium (U)-Total	0.000250		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Vanadium (V)-Total	0.00052		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Zirconium (Zr)-Total	0.00082		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298102
Dissolved Metals Filtration Location	FIELD					24-NOV-20	R5297949
Aluminum (Al)-Dissolved	0.0115		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Antimony (Sb)-Dissolved	0.00086		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Arsenic (As)-Dissolved	0.00116		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Barium (Ba)-Dissolved	0.0632		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Boron (B)-Dissolved	0.011		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Calcium (Ca)-Dissolved	69.9		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Cesium (Cs)-Dissolved	0.000111		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Chromium (Cr)-Dissolved	0.00020		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cobalt (Co)-Dissolved	0.00031		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Copper (Cu)-Dissolved	0.00113		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Iron (Fe)-Dissolved	0.246		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Lithium (Li)-Dissolved	0.0012		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Magnesium (Mg)-Dissolved	14.0		0.0050	mg/L	24-NOV-20	25-NOV-20	R5298218
Manganese (Mn)-Dissolved	0.104		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298811
Molybdenum (Mo)-Dissolved	0.000841		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Nickel (Ni)-Dissolved	0.00124		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Potassium (K)-Dissolved	0.877		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Rubidium (Rb)-Dissolved	0.00179		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Selenium (Se)-Dissolved	0.000086		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silicon (Si)-Dissolved	5.44		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Sodium (Na)-Dissolved	3.04		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Strontium (Sr)-Dissolved	0.212		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Sulfur (S)-Dissolved	4.83		0.50	mg/L	24-NOV-20	25-NOV-20	R5298218
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532169-2 SP-GW-BL385 Sampled By: Client on 15-NOV-20 @ 11:48 Matrix: Groundwater							
Dissolved Metals							
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	24-NOV-20	25-NOV-20	R5298218
Tungsten (W)-Dissolved	0.00030		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Uranium (U)-Dissolved	0.000249		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Zinc (Zn)-Dissolved	0.0012		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Zirconium (Zr)-Dissolved	0.00045		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Total Dissolved Solids	B	L2532169-1, -2
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L2532169-1, -2
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L2532169-1, -2
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L2532169-1, -2
Matrix Spike	Potassium (K)-Dissolved	MS-B	L2532169-1, -2
Matrix Spike	Rubidium (Rb)-Dissolved	MS-B	L2532169-1, -2
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L2532169-1, -2
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L2532169-1, -2
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L2532169-1, -2
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L2532169-1, -2
Matrix Spike	Barium (Ba)-Total	MS-B	L2532169-1, -2
Matrix Spike	Calcium (Ca)-Total	MS-B	L2532169-1, -2
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2532169-1, -2
Matrix Spike	Manganese (Mn)-Total	MS-B	L2532169-1, -2
Matrix Spike	Sodium (Na)-Total	MS-B	L2532169-1, -2
Matrix Spike	Strontium (Sr)-Total	MS-B	L2532169-1, -2
Matrix Spike	Sulfur (S)-Total	MS-B	L2532169-1, -2
Matrix Spike	Silica, Reactive (as SiO2)	MS-B	L2532169-1, -2

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-WP	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-WP	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CN-TOT-WT	Water	Cyanide, Total	ISO 14403-2

Total cyanide is determined by the combination of UV digestion and distillation. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

When using this method, high levels of thiocyanate in samples can cause false positives at ~1-2% of the thiocyanate concentration. For samples with detectable cyanide analyzed by this method, ALS recommends analysis for thiocyanate to check for this potential interference

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-SCREEN-WP	Water	Conductivity Screen (Internal Use Only)	APHA 2510

Qualitative analysis of conductivity where required during preparation of other test eg. IC, TDS, TSS, etc

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

		Fluoride in Water by IC	EPA 300.1 (mod)

Reference Information

F-IC-N-WP	Water		

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-WP	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-WP	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

SIO2-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-WP	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Reference Information

TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5296488								
WG3449458-2 LCS								
Acidity (as CaCO3)			97.2		%		85-115	23-NOV-20
WG3449458-1 MB								
Acidity (as CaCO3)			2.2		mg/L		4	23-NOV-20
ALK-TITR-TB	Water							
Batch R5294240								
WG3449453-3 DUP		**L2532169-2**						
Alkalinity, Total (as CaCO3)		216	217		mg/L	0.2	20	21-NOV-20
WG3449452-2 LCS								
Alkalinity, Total (as CaCO3)			102.4		%		85-115	21-NOV-20
WG3449453-2 LCS								
Alkalinity, Total (as CaCO3)			103.2		%		85-115	21-NOV-20
WG3449452-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	21-NOV-20
WG3449453-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	21-NOV-20
BR-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Bromide (Br)			100.2		%		85-115	25-NOV-20
WG3451734-5 MB								
Bromide (Br)			<0.10		mg/L		0.1	25-NOV-20
CL-L-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Chloride (Cl)			98.8		%		90-110	25-NOV-20
WG3451734-5 MB								
Chloride (Cl)			<0.10		mg/L		0.1	25-NOV-20
CN-TOT-WT	Water							
Batch R5296892								
WG3450557-12 LCS								
Cyanide, Total			95.9		%		80-120	24-NOV-20
WG3450557-11 MB								
Cyanide, Total			<0.0020		mg/L		0.002	24-NOV-20
DOC-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-WT	Water							
Batch R5298816								
WG3451092-2 LCS								
Dissolved Organic Carbon			98.1		%		80-120	26-NOV-20
WG3451092-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	26-NOV-20
EC-TITR-TB	Water							
Batch R5294240								
WG3449453-3 DUP		**L2532169-2**						
Conductivity (EC)		462	462		uS/cm	0.0	10	21-NOV-20
WG3449452-2 LCS								
Conductivity (EC)			99.1		%		90-110	21-NOV-20
WG3449453-2 LCS								
Conductivity (EC)			99.6		%		90-110	21-NOV-20
WG3449452-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	21-NOV-20
WG3449453-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	21-NOV-20
F-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Fluoride (F)			102.5		%		90-110	25-NOV-20
WG3451734-5 MB								
Fluoride (F)			<0.020		mg/L		0.02	25-NOV-20
HG-D-CVAA-WT	Water							
Batch R5298811								
WG3452277-2 LCS								
Mercury (Hg)-Dissolved			108.0		%		80-120	27-NOV-20
WG3452277-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	27-NOV-20
MET-D-CCMS-TB	Water							
Batch R5298218								
WG3450635-2 LCS								
Aluminum (Al)-Dissolved			101.7		%		80-120	25-NOV-20
Antimony (Sb)-Dissolved			101.1		%		80-120	25-NOV-20
Arsenic (As)-Dissolved			103.2		%		80-120	25-NOV-20
Barium (Ba)-Dissolved			102.4		%		80-120	25-NOV-20
Beryllium (Be)-Dissolved			103.8		%		80-120	25-NOV-20
Bismuth (Bi)-Dissolved			99.9		%		80-120	25-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5298218								
WG3450635-2 LCS								
Boron (B)-Dissolved			94.2		%		80-120	25-NOV-20
Cadmium (Cd)-Dissolved			102.5		%		80-120	25-NOV-20
Calcium (Ca)-Dissolved			101.2		%		80-120	25-NOV-20
Cesium (Cs)-Dissolved			103.0		%		80-120	25-NOV-20
Chromium (Cr)-Dissolved			100.2		%		80-120	25-NOV-20
Cobalt (Co)-Dissolved			100.1		%		80-120	25-NOV-20
Copper (Cu)-Dissolved			99.7		%		80-120	25-NOV-20
Iron (Fe)-Dissolved			105.8		%		80-120	25-NOV-20
Lead (Pb)-Dissolved			99.9		%		80-120	25-NOV-20
Lithium (Li)-Dissolved			104.0		%		80-120	25-NOV-20
Magnesium (Mg)-Dissolved			103.7		%		80-120	25-NOV-20
Manganese (Mn)-Dissolved			102.0		%		80-120	25-NOV-20
Molybdenum (Mo)-Dissolved			103.6		%		80-120	25-NOV-20
Nickel (Ni)-Dissolved			98.8		%		80-120	25-NOV-20
Phosphorus (P)-Dissolved			105.1		%		80-120	25-NOV-20
Potassium (K)-Dissolved			103.7		%		80-120	25-NOV-20
Rubidium (Rb)-Dissolved			102.2		%		80-120	25-NOV-20
Selenium (Se)-Dissolved			100.8		%		80-120	25-NOV-20
Silicon (Si)-Dissolved			101.7		%		80-120	25-NOV-20
Silver (Ag)-Dissolved			103.2		%		80-120	25-NOV-20
Sodium (Na)-Dissolved			105.6		%		80-120	25-NOV-20
Strontium (Sr)-Dissolved			107.0		%		80-120	25-NOV-20
Sulfur (S)-Dissolved			91.2		%		80-120	25-NOV-20
Tellurium (Te)-Dissolved			104.5		%		80-120	25-NOV-20
Thallium (Tl)-Dissolved			101.3		%		80-120	25-NOV-20
Thorium (Th)-Dissolved			100.7		%		80-120	25-NOV-20
Tin (Sn)-Dissolved			102.3		%		80-120	25-NOV-20
Titanium (Ti)-Dissolved			98.9		%		80-120	25-NOV-20
Tungsten (W)-Dissolved			102.6		%		80-120	25-NOV-20
Uranium (U)-Dissolved			103.5		%		80-120	25-NOV-20
Vanadium (V)-Dissolved			101.0		%		80-120	25-NOV-20
Zinc (Zn)-Dissolved			94.8		%		80-120	25-NOV-20
Zirconium (Zr)-Dissolved			103.1		%		80-120	25-NOV-20
WG3450635-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5298218								
WG3450635-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	25-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	25-NOV-20
Cadmium (Cd)-Dissolved			<0.000005C		mg/L		0.000005	25-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	25-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	25-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	25-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	25-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	25-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	25-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5298218								
WG3450635-1 MB								
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	25-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	25-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-2 LCS								
Aluminum (Al)-Total			98.4		%		80-120	26-NOV-20
Antimony (Sb)-Total			103.1		%		80-120	26-NOV-20
Arsenic (As)-Total			102.4		%		80-120	26-NOV-20
Barium (Ba)-Total			102.6		%		80-120	26-NOV-20
Beryllium (Be)-Total			97.4		%		80-120	26-NOV-20
Bismuth (Bi)-Total			102.9		%		80-120	26-NOV-20
Boron (B)-Total			90.9		%		80-120	26-NOV-20
Cadmium (Cd)-Total			102.9		%		80-120	26-NOV-20
Calcium (Ca)-Total			98.4		%		80-120	26-NOV-20
Cesium (Cs)-Total			99.7		%		80-120	26-NOV-20
Chromium (Cr)-Total			100.5		%		80-120	26-NOV-20
Cobalt (Co)-Total			100.6		%		80-120	26-NOV-20
Copper (Cu)-Total			98.5		%		80-120	26-NOV-20
Iron (Fe)-Total			98.3		%		80-120	26-NOV-20
Lead (Pb)-Total			103.2		%		80-120	26-NOV-20
Lithium (Li)-Total			99.0		%		80-120	26-NOV-20
Magnesium (Mg)-Total			100.5		%		80-120	26-NOV-20
Manganese (Mn)-Total			102.6		%		80-120	26-NOV-20
Molybdenum (Mo)-Total			101.4		%		80-120	26-NOV-20
Nickel (Ni)-Total			99.6		%		80-120	26-NOV-20
Phosphorus (P)-Total			105.9		%		80-120	26-NOV-20
Potassium (K)-Total			106.3		%		80-120	26-NOV-20
Rubidium (Rb)-Total			104.6		%		80-120	26-NOV-20
Selenium (Se)-Total			97.1		%		80-120	26-NOV-20
Silicon (Si)-Total			99.2		%		80-120	26-NOV-20
Silver (Ag)-Total			101.5		%		80-120	26-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-2 LCS								
Sodium (Na)-Total			102.7		%		80-120	26-NOV-20
Strontium (Sr)-Total			101.3		%		80-120	26-NOV-20
Sulfur (S)-Total			105.7		%		80-120	26-NOV-20
Tellurium (Te)-Total			106.7		%		80-120	26-NOV-20
Thallium (Tl)-Total			103.8		%		80-120	26-NOV-20
Thorium (Th)-Total			102.7		%		80-120	26-NOV-20
Tin (Sn)-Total			102.1		%		80-120	26-NOV-20
Titanium (Ti)-Total			100.6		%		80-120	26-NOV-20
Tungsten (W)-Total			100.9		%		80-120	26-NOV-20
Uranium (U)-Total			103.4		%		80-120	26-NOV-20
Vanadium (V)-Total			100.8		%		80-120	26-NOV-20
Zinc (Zn)-Total			96.2		%		80-120	26-NOV-20
Zirconium (Zr)-Total			99.7		%		80-120	26-NOV-20
WG3452207-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	26-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	26-NOV-20
Cadmium (Cd)-Total			<0.000005C		mg/L		0.000005	26-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	26-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	26-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	26-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	26-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	26-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-1 MB								
Phosphorus (P)-Total			<0.050		mg/L		0.05	26-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	26-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Silicon (Si)-Total			<0.10		mg/L		0.1	26-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	26-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	26-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	26-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	26-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	26-NOV-20
NH3-F-TB	Water							
Batch R5296490								
WG3449424-2 LCS								
Ammonia, Total (as N)			108.4		%		85-115	23-NOV-20
WG3449424-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	23-NOV-20
NO2-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Nitrite (as N)			99.5		%		90-110	25-NOV-20
WG3451734-5 MB								
Nitrite (as N)			<0.010		mg/L		0.01	25-NOV-20
NO3-IC-N-WP	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Nitrate (as N)			98.4		%		90-110	25-NOV-20
WG3451734-5 MB								
Nitrate (as N)			<0.020		mg/L		0.02	25-NOV-20
P-T-COL-TB	Water							
Batch R5297194								
WG3449429-2 LCS								
Phosphorus (P)-Total			100.6		%		80-120	24-NOV-20
WG3449429-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	24-NOV-20
PH-TITR-TB	Water							
Batch R5294240								
WG3449453-3 DUP		**L2532169-2**						
pH		7.48	7.48	J	pH	0.00	0.2	21-NOV-20
WG3449452-2 LCS								
pH			6.95		pH		6.9-7.1	21-NOV-20
WG3449453-2 LCS								
pH			6.93		pH		6.9-7.1	21-NOV-20
SIO2-COL-WP	Water							
Batch R5298774								
WG3453057-3 DUP		**L2532169-1**						
Silica, Reactive (as SiO2)		12.8	13.1		mg/L	2.4	20	26-NOV-20
WG3453057-2 LCS								
Silica, Reactive (as SiO2)			111.5		%		85-115	26-NOV-20
WG3453057-1 MB								
Silica, Reactive (as SiO2)			<1.0		mg/L		1	26-NOV-20
WG3453057-4 MS		**L2532169-2**						
Silica, Reactive (as SiO2)			N/A	MS-B	%		-	26-NOV-20
SO4-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Sulfate (SO4)			100.8		%		90-110	25-NOV-20
WG3451734-5 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	25-NOV-20
TDS-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-TB	Water							
Batch R5294756								
WG3449479-3 DUP		**L2532169-2**						
Total Dissolved Solids		278	295		mg/L	5.9	20	21-NOV-20
WG3449479-2 LCS								
Total Dissolved Solids			97.7		%		85-115	21-NOV-20
WG3449479-1 MB								
Total Dissolved Solids			13	B	mg/L		10	21-NOV-20
TSS-TB	Water							
Batch R5293843								
WG3449478-3 DUP		**L2532169-2**						
Total Suspended Solids		22.4	25.0		mg/L	11	20	21-NOV-20
WG3449478-2 LCS								
Total Suspended Solids			94.0		%		85-115	21-NOV-20
WG3449478-1 MB								
Total Suspended Solids			<3.0		mg/L		3	21-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	15-NOV-20 10:08	21-NOV-20 13:55	4	6	days	EHTR
	2	15-NOV-20 11:48	21-NOV-20 13:55	4	6	days	EHTR
Anions and Nutrients							
Nitrate in Water by IC							
	1	15-NOV-20 10:08	25-NOV-20 12:30	3	10	days	EHTR
	2	15-NOV-20 11:48	25-NOV-20 12:30	3	10	days	EHTR
Nitrite in Water by IC							
	1	15-NOV-20 10:08	25-NOV-20 12:30	3	10	days	EHTR
	2	15-NOV-20 11:48	25-NOV-20 12:30	3	10	days	EHTR

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2532169 were received on 21-NOV-20 09:45.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2532169-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9855
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2

Report Format / Distribution	
Select Report Format:	☐ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☐ EMAIL ☐ MAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shila@firstmininggold.com
Email 3	shaun@firstmininggold.com

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)			
Regular [R] ☐ Standard TAT if received by 3 pm - business days - no surcharges apply			
PRIORITY (Business Days)	4 day [P4-20%] ☐	EMERGENCY	1 Business day [E - 100%] ☐
	3 day [P3-25%] ☐		Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐
	2 day [P2-50%] ☐		
Date and Time Required for all E&P TATs:			
For tests that can not be performed according to the service level selected, you will be contacted.			

Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution	
Select Invoice Distribution:	☐ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	20864 / Q64154	AFE/Cost Center:	PO#
Job #:	Springpole Pump Test - Groundwater	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:	First Mining Gold Project	Location:	
ALS Lab Work Order # (lab use only):	L2532169	ALS Contact:	Sampler:

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Ammonia, Br, Cl, Conductivity	Dissolved Metals, Total Metals	Dissolved Mercury	DOC, H, Hardness, NO2, NO3, pH, SO4	TDS	Total Cyanide	Total Phosphorus, TSS	Reactive Silica	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
-1	SP-GW-BL235	15-Nov-20	10:08	Groundwater	8	X	X	X	X	X	X	X	X		
-2	SP-GW-BL385	15-Nov-20	11:48	Groundwater	8	X	X	X	X	X	X	X	X		

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)			
Frozen ☐	SIF Observations	Yes ☑	No ☐
Ice Packs ☑ Ice Cubes ☐	Custody seal intact	Yes ☐	No ☐
Cooling Initiated ☑			
INITIAL COOLER TEMPERATURES °C		FINAL COOLER TEMPERATURES °C	
2.8			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by: MM	Date: 21 Nov 20	Time: 945	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2014 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

MM

L2532169-COFC

Client: Gold Canyon

Sample Layout Verification:	Verified By	Date	Time	Sample Integrity Issues Enter information on back page
	MM	8/Nov20	945	
Labels Verification:	**Verified By**			**Do any samples require prep?**
				(NO) P F/P

		Sample #:	1-2															
1L	Plastic																	
500mL	Plastic																	
250mL	Plastic		1															
145mL	Plastic		3															
60mL	Plastic		1															
Micro																		
Toxicity Pail																		
1L	Glass																	
500mL	Glass																	
250mL	Glass																	
120mL	Glass		2															
60mL	Glass																	
40mL	Vial (Glass)																	
40mL	Methanol Vials		1															
Soil Jar (120, 250 or 500mL)																		
Other:																		
Other:																		
Total Number of Bottles			8															

Trip/Travel/Field Blank Information

Solids Batch#:	Metals Batch#:	T:	D:
Routine Batch#:	Mercury Batch#:	T:	D:
BOD Batch#:	Cyanide Batch#:	T:	D:
Nutrients Batch#:	OGG Batch#:		
DOC/Carbon Batch#:	Phenols Batch#:		
VOC Batch#:			
Other:			

COOLER TRACKING

EPP		Coleman	
Small		Micro (5QT)	
Med		Sm(9QT)	
Lrg		Med(16QT)	
Micro Box		Lrg(28QT)	
		Lrg(48QT)	

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 21- NOV- 20
Report Date: 08- DEC- 20 10:13 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2532200

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - SURFACE WATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project



Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532200-1 3134-AQ-LAKE1-201117 Sampled By: Client on 17-NOV-20 @ 11:12 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	66.2		1.0	uS/cm		21-NOV-20	R5294240
Hardness (as CaCO3)	32.0		0.50	mg/L		27-NOV-20	
pH	7.43		0.10	pH		21-NOV-20	R5294240
Total Suspended Solids	<3.0		3.0	mg/L		23-NOV-20	R5296528
Total Dissolved Solids	49		13	mg/L		23-NOV-20	R5296620
Anions and Nutrients							
Acidity (as CaCO3)	2.5		2.0	mg/L		23-NOV-20	R5296488
Alkalinity, Total (as CaCO3)	31.7		2.0	mg/L		21-NOV-20	R5294240
Ammonia, Total (as N)	0.0130		0.0050	mg/L	21-NOV-20	23-NOV-20	R5296490
Bromide (Br)	<0.10		0.10	mg/L		25-NOV-20	R5299112
Chloride (Cl)	0.23		0.10	mg/L		25-NOV-20	R5299112
Fluoride (F)	0.035		0.020	mg/L		25-NOV-20	R5299112
Nitrate (as N)	0.027		0.020	mg/L		25-NOV-20	R5299112
Nitrite (as N)	<0.010		0.010	mg/L		25-NOV-20	R5299112
Total Kjeldahl Nitrogen	0.363		0.050	mg/L	21-NOV-20	24-NOV-20	R5296799
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	21-NOV-20	23-NOV-20	R5295637
Phosphorus (P)-Total	0.0106		0.0030	mg/L	24-NOV-20	24-NOV-20	R5297194
Sulfate (SO4)	1.75		0.30	mg/L		25-NOV-20	R5299112
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				17-NOV-20	24-NOV-20	R5297021
Dissolved Inorganic Carbon	6.9		1.0	mg/L		01-DEC-20	R5300818
Dissolved Organic Carbon	7.31		0.50	mg/L	17-NOV-20	26-NOV-20	R5298816
Total Organic Carbon	8.22		0.50	mg/L		30-NOV-20	R5300428
Total Metals							
Aluminum (Al)-Total	0.0088		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Arsenic (As)-Total	0.00056		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Barium (Ba)-Total	0.00762		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Boron (B)-Total	<0.010		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Calcium (Ca)-Total	10.8		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Chromium (Cr)-Total	0.00021		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Copper (Cu)-Total	0.00083		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Iron (Fe)-Total	0.035		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Lead (Pb)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Lithium (Li)-Total	<0.0010		0.0010	mg/L	26-NOV-20	26-NOV-20	R5298612
Magnesium (Mg)-Total	1.52		0.0050	mg/L	26-NOV-20	26-NOV-20	R5298612
Manganese (Mn)-Total	0.00700		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532200-1 3134-AQ-LAKE1-201117 Sampled By: Client on 17-NOV-20 @ 11:12 Matrix: Surface Water							
Total Metals							
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		25-NOV-20	R5297475
Molybdenum (Mo)-Total	0.000115		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Potassium (K)-Total	0.728		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Rubidium (Rb)-Total	0.00176		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Selenium (Se)-Total	0.000087		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Silicon (Si)-Total	1.24		0.10	mg/L	26-NOV-20	26-NOV-20	R5298612
Silver (Ag)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Sodium (Na)-Total	0.755		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Strontium (Sr)-Total	0.0261		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Sulfur (S)-Total	1.19		0.50	mg/L	26-NOV-20	26-NOV-20	R5298612
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	26-NOV-20	26-NOV-20	R5298612
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Uranium (U)-Total	0.000014		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Vanadium (V)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298102
Dissolved Metals Filtration Location	FIELD					24-NOV-20	R5297949
Aluminum (Al)-Dissolved	0.0016		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Arsenic (As)-Dissolved	0.00051		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Barium (Ba)-Dissolved	0.00706		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Boron (B)-Dissolved	<0.010		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Calcium (Ca)-Dissolved	10.3		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Chromium (Cr)-Dissolved	0.00013		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Copper (Cu)-Dissolved	0.00067		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532200-1 3134-AQ-LAKE1-201117 Sampled By: Client on 17-NOV-20 @ 11:12 Matrix: Surface Water							
Dissolved Metals							
Magnesium (Mg)-Dissolved	1.55		0.0050	mg/L	24-NOV-20	25-NOV-20	R5298218
Manganese (Mn)-Dissolved	0.00035		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298811
Molybdenum (Mo)-Dissolved	0.000112		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Potassium (K)-Dissolved	0.704		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Rubidium (Rb)-Dissolved	0.00173		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Selenium (Se)-Dissolved	0.000117		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silicon (Si)-Dissolved	1.17		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Sodium (Na)-Dissolved	0.733		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Strontium (Sr)-Dissolved	0.0257		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	24-NOV-20	25-NOV-20	R5298218
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Thallium (Tl)-Dissolved	0.000035	DTC	0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	24-NOV-20	25-NOV-20	R5298218
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Uranium (U)-Dissolved	0.000012		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Zinc (Zn)-Dissolved	0.0013		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		24-NOV-20	R5297142
Chromium, Hexavalent	<0.50		0.50	ug/L		24-NOV-20	R5297146
Methylmercury (as MeHg)-Total	0.000027		0.000020	ug/L	01-DEC-20	01-DEC-20	R5300133
Aggregate Organics							
Chemical Oxygen Demand	26		20	mg/L	21-NOV-20	24-NOV-20	R5296824
L2532200-2 3134-AQ-LAKE2-201117 Sampled By: Client on 17-NOV-20 @ 11:40 Matrix: Surface Water							
Physical Tests							
Conductivity (EC)	66.3		1.0	uS/cm		21-NOV-20	R5294240
Hardness (as CaCO3)	32.5		0.50	mg/L		27-NOV-20	
pH	7.40		0.10	pH		21-NOV-20	R5294240
Total Suspended Solids	<3.0		3.0	mg/L		23-NOV-20	R5296528
Total Dissolved Solids	50		13	mg/L		23-NOV-20	R5296620
Anions and Nutrients							
Acidity (as CaCO3)	2.5		2.0	mg/L		23-NOV-20	R5296488
Alkalinity, Total (as CaCO3)	31.9		2.0	mg/L		21-NOV-20	R5294240

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532200-2 3134-AQ-LAKE2-201117 Sampled By: Client on 17-NOV-20 @ 11:40 Matrix: Surface Water							
Anions and Nutrients							
Ammonia, Total (as N)	0.0206		0.0050	mg/L	21-NOV-20	23-NOV-20	R5296490
Bromide (Br)	<0.10		0.10	mg/L		25-NOV-20	R5299112
Chloride (Cl)	0.24		0.10	mg/L		25-NOV-20	R5299112
Fluoride (F)	0.036		0.020	mg/L		25-NOV-20	R5299112
Nitrate (as N)	0.032		0.020	mg/L		25-NOV-20	R5299112
Nitrite (as N)	<0.010		0.010	mg/L		25-NOV-20	R5299112
Total Kjeldahl Nitrogen	0.344		0.050	mg/L	21-NOV-20	24-NOV-20	R5296799
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	21-NOV-20	23-NOV-20	R5295637
Phosphorus (P)-Total	0.0088		0.0030	mg/L	24-NOV-20	24-NOV-20	R5297194
Sulfate (SO4)	2.27		0.30	mg/L		25-NOV-20	R5299112
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				17-NOV-20	24-NOV-20	R5297021
Dissolved Inorganic Carbon	8.2		1.0	mg/L		01-DEC-20	R5300818
Dissolved Organic Carbon	7.68		0.50	mg/L	17-NOV-20	26-NOV-20	R5298816
Total Organic Carbon	8.15		0.50	mg/L		30-NOV-20	R5300428
Total Metals							
Aluminum (Al)-Total	0.0085		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Arsenic (As)-Total	0.00057		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Barium (Ba)-Total	0.00760		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Boron (B)-Total	<0.010		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Calcium (Ca)-Total	10.7		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Chromium (Cr)-Total	0.00021		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Copper (Cu)-Total	0.00081		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Iron (Fe)-Total	0.033		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Lead (Pb)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Lithium (Li)-Total	<0.0010		0.0010	mg/L	26-NOV-20	26-NOV-20	R5298612
Magnesium (Mg)-Total	1.53		0.0050	mg/L	26-NOV-20	26-NOV-20	R5298612
Manganese (Mn)-Total	0.00660		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		25-NOV-20	R5297475
Molybdenum (Mo)-Total	0.000117		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Potassium (K)-Total	0.710		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Rubidium (Rb)-Total	0.00177		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Selenium (Se)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532200-2 3134-AQ-LAKE2-201117 Sampled By: Client on 17-NOV-20 @ 11:40 Matrix: Surface Water							
Total Metals							
Silicon (Si)-Total	1.20		0.10	mg/L	26-NOV-20	26-NOV-20	R5298612
Silver (Ag)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Sodium (Na)-Total	0.739		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Strontium (Sr)-Total	0.0256		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Sulfur (S)-Total	1.18		0.50	mg/L	26-NOV-20	26-NOV-20	R5298612
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	26-NOV-20	26-NOV-20	R5298612
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Uranium (U)-Total	0.000012		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Vanadium (V)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298102
Dissolved Metals Filtration Location	FIELD					24-NOV-20	R5297949
Aluminum (Al)-Dissolved	0.0014		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Arsenic (As)-Dissolved	0.00052		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Barium (Ba)-Dissolved	0.00696		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Boron (B)-Dissolved	<0.010		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Calcium (Ca)-Dissolved	10.4		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Chromium (Cr)-Dissolved	0.00016		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Copper (Cu)-Dissolved	0.00071		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Magnesium (Mg)-Dissolved	1.56		0.0050	mg/L	24-NOV-20	25-NOV-20	R5298218
Manganese (Mn)-Dissolved	0.00035		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298811
Molybdenum (Mo)-Dissolved	0.000110		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Potassium (K)-Dissolved	0.701		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532200-2 3134-AQ-LAKE2-201117 Sampled By: Client on 17-NOV-20 @ 11:40 Matrix: Surface Water							
Dissolved Metals							
Rubidium (Rb)-Dissolved	0.00166		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Selenium (Se)-Dissolved	0.000079		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silicon (Si)-Dissolved	1.18		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Sodium (Na)-Dissolved	0.741		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Strontium (Sr)-Dissolved	0.0261		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Sulfur (S)-Dissolved	0.52		0.50	mg/L	24-NOV-20	25-NOV-20	R5298218
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	24-NOV-20	25-NOV-20	R5298218
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Uranium (U)-Dissolved	0.000011		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		24-NOV-20	R5297142
Chromium, Hexavalent	<0.50		0.50	ug/L		24-NOV-20	R5297146
Methylmercury (as MeHg)-Total	0.000022		0.000020	ug/L	01-DEC-20	01-DEC-20	R5300133
Aggregate Organics							
Chemical Oxygen Demand	24		20	mg/L	21-NOV-20	24-NOV-20	R5296824

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Barium (Ba)-Total	MS-B	L2532200-1, -2
Matrix Spike	Calcium (Ca)-Total	MS-B	L2532200-1, -2
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2532200-1, -2
Matrix Spike	Manganese (Mn)-Total	MS-B	L2532200-1, -2
Matrix Spike	Sodium (Na)-Total	MS-B	L2532200-1, -2
Matrix Spike	Strontium (Sr)-Total	MS-B	L2532200-1, -2
Matrix Spike	Sulfur (S)-Total	MS-B	L2532200-1, -2

Sample Parameter Qualifier key listed:

Qualifier	Description
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-WP	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-WP	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

COD-TB	Water	Chemical Oxygen Demand	APHA 5220D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-PWQO-IC-WT	Water	Chromium +6	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DIC-WT	Water	Dissolved Inorganic Carbon	APHA 5310B

Filtered (0.45 um) sample is injected into a heated reaction chamber where it is acidified, converting all inorganic carbon to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-SCREEN-WP	Water	Conductivity Screen (Internal Use Only)	APHA 2510

Qualitative analysis of conductivity where required during preparation of other test eg. IC, TDS, TSS, etc

Reference Information

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-WP	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-T-CVAA-WT	Water	Total Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MEHG-T-GCAF-VA	Water	Total Methylmercury in Water by GCAFS	EPA 1630

This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolized to elemental Hg and quantified by cold vapour atomic flourescence spectroscopy. Results are reported "as MeHg".

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-WP	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-WP	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

SO4-IC-N-WP	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Reference Information

	Aqueous matrices are analyzed using gravimetry and evaporation		
TKN-F-TB	Water	TKN in Water by Fluorescence	catnr 157/158, 062818/99334821
	Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection		
TOC-WT	Water	Total Organic Carbon	APHA 5310B
	Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic cabon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.		
TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)
	Aqueous matrices are analyzed using gravimetry		

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2532200 Report Date: 08-DEC-20

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5296488								
WG3449458-2 LCS								
Acidity (as CaCO3)			97.2		%		85-115	23-NOV-20
WG3449458-1 MB								
Acidity (as CaCO3)			2.2		mg/L		4	23-NOV-20
ALK-TITR-TB	Water							
Batch R5294240								
WG3449452-3 DUP		**L2532200-1**						
Alkalinity, Total (as CaCO3)		31.7	31.9		mg/L	0.6	20	21-NOV-20
WG3449452-2 LCS								
Alkalinity, Total (as CaCO3)			102.4		%		85-115	21-NOV-20
WG3449452-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	21-NOV-20
BR-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Bromide (Br)			100.2		%		85-115	25-NOV-20
WG3451734-5 MB								
Bromide (Br)			<0.10		mg/L		0.1	25-NOV-20
CL-L-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Chloride (Cl)			98.8		%		90-110	25-NOV-20
WG3451734-5 MB								
Chloride (Cl)			<0.10		mg/L		0.1	25-NOV-20
COD-TB	Water							
Batch R5296824								
WG3449433-2 LCS								
Chemical Oxygen Demand			108.0		%		85-115	24-NOV-20
WG3449433-1 MB								
Chemical Oxygen Demand			<20		mg/L		20	24-NOV-20
CR-CR6-DIS-WT	Water							
Batch R5297142								
WG3450954-2 LCS								
Chromium (VI)-Dissolved			98.4		%		70-130	24-NOV-20
WG3450954-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	24-NOV-20
CR-CR6-PWQO-IC-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-PWQO-IC-WT	Water							
Batch R5297146								
WG3450962-2 LCS								
Chromium, Hexavalent			96.2		%		80-120	24-NOV-20
WG3450962-1 MB								
Chromium, Hexavalent			<0.50		ug/L		0.5	24-NOV-20
DIC-WT	Water							
Batch R5300818								
WG3454671-3 DUP		**L2532200-1**						
Dissolved Inorganic Carbon		6.9	6.9		mg/L	0.3	20	01-DEC-20
WG3454671-2 LCS								
Dissolved Inorganic Carbon			115.6		%		80-120	01-DEC-20
WG3454671-1 MB								
Dissolved Inorganic Carbon			<1.0		mg/L		1	01-DEC-20
WG3454671-4 MS		**L2532200-1**						
Dissolved Inorganic Carbon			125.0		%		70-130	01-DEC-20
DOC-WT	Water							
Batch R5298816								
WG3451092-2 LCS								
Dissolved Organic Carbon			98.1		%		80-120	26-NOV-20
WG3451092-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	26-NOV-20
EC-TITR-TB	Water							
Batch R5294240								
WG3449452-3 DUP		**L2532200-1**						
Conductivity (EC)		66.2	65.5		uS/cm	1.1	10	21-NOV-20
WG3449452-2 LCS								
Conductivity (EC)			99.1		%		90-110	21-NOV-20
WG3449452-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	21-NOV-20
F-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Fluoride (F)			102.5		%		90-110	25-NOV-20
WG3451734-5 MB								
Fluoride (F)			<0.020		mg/L		0.02	25-NOV-20
HG-D-CVAA-WT	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAA-WT	Water							
Batch R5298811								
WG3452277-2 LCS								
Mercury (Hg)-Dissolved			108.0		%		80-120	27-NOV-20
WG3452277-1 MB								
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.000005	27-NOV-20
HG-T-CVAA-WT	Water							
Batch R5297475								
WG3451341-2 LCS								
Mercury (Hg)-Total			112.0		%		80-120	25-NOV-20
WG3451341-1 MB								
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	25-NOV-20
MEHG-T-GCAF-VA	Water							
Batch R5300133								
WG3455786-3 LCS								
Methylmercury (as MeHg)-Total			82.7		%		70-130	01-DEC-20
WG3455786-1 MB								
Methylmercury (as MeHg)-Total			<0.000020		ug/L		0.00002	01-DEC-20
MET-D-CCMS-TB	Water							
Batch R5298218								
WG3450635-6 LCS								
Aluminum (Al)-Dissolved			100.8		%		80-120	25-NOV-20
Antimony (Sb)-Dissolved			98.0		%		80-120	25-NOV-20
Arsenic (As)-Dissolved			104.5		%		80-120	25-NOV-20
Barium (Ba)-Dissolved			103.9		%		80-120	25-NOV-20
Beryllium (Be)-Dissolved			96.2		%		80-120	25-NOV-20
Bismuth (Bi)-Dissolved			97.5		%		80-120	25-NOV-20
Boron (B)-Dissolved			88.9		%		80-120	25-NOV-20
Cadmium (Cd)-Dissolved			105.1		%		80-120	25-NOV-20
Calcium (Ca)-Dissolved			99.1		%		80-120	25-NOV-20
Cesium (Cs)-Dissolved			99.6		%		80-120	25-NOV-20
Chromium (Cr)-Dissolved			101.3		%		80-120	25-NOV-20
Cobalt (Co)-Dissolved			100.6		%		80-120	25-NOV-20
Copper (Cu)-Dissolved			100.6		%		80-120	25-NOV-20
Iron (Fe)-Dissolved			106.3		%		80-120	25-NOV-20
Lead (Pb)-Dissolved			96.6		%		80-120	25-NOV-20
Lithium (Li)-Dissolved			93.0		%		80-120	25-NOV-20
Magnesium (Mg)-Dissolved			105.2		%		80-120	25-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5298218								
WG3450635-6 LCS								
Manganese (Mn)-Dissolved			101.9		%		80-120	25-NOV-20
Molybdenum (Mo)-Dissolved			101.2		%		80-120	25-NOV-20
Nickel (Ni)-Dissolved			99.2		%		80-120	25-NOV-20
Phosphorus (P)-Dissolved			107.7		%		80-120	25-NOV-20
Potassium (K)-Dissolved			105.2		%		80-120	25-NOV-20
Rubidium (Rb)-Dissolved			103.2		%		80-120	25-NOV-20
Selenium (Se)-Dissolved			102.9		%		80-120	25-NOV-20
Silicon (Si)-Dissolved			99.98		%		80-120	25-NOV-20
Silver (Ag)-Dissolved			100.6		%		80-120	25-NOV-20
Sodium (Na)-Dissolved			105.1		%		80-120	25-NOV-20
Strontium (Sr)-Dissolved			105.1		%		80-120	25-NOV-20
Sulfur (S)-Dissolved			99.9		%		80-120	25-NOV-20
Tellurium (Te)-Dissolved			100.6		%		80-120	25-NOV-20
Thallium (Tl)-Dissolved			96.8		%		80-120	25-NOV-20
Thorium (Th)-Dissolved			95.1		%		80-120	25-NOV-20
Tin (Sn)-Dissolved			98.2		%		80-120	25-NOV-20
Titanium (Ti)-Dissolved			101.8		%		80-120	25-NOV-20
Tungsten (W)-Dissolved			98.5		%		80-120	25-NOV-20
Uranium (U)-Dissolved			98.3		%		80-120	25-NOV-20
Vanadium (V)-Dissolved			101.5		%		80-120	25-NOV-20
Zinc (Zn)-Dissolved			99.8		%		80-120	25-NOV-20
Zirconium (Zr)-Dissolved			100.5		%		80-120	25-NOV-20
WG3450635-5 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	25-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	25-NOV-20
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	25-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5298218								
WG3450635-5 MB								
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	25-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	25-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	25-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	25-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	25-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	25-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	25-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	25-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-3 DUP		**L2532200-2**						
Aluminum (Al)-Total		0.0085	0.0090		mg/L	5.0	20	26-NOV-20
Antimony (Sb)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-NOV-20
Arsenic (As)-Total		0.00057	0.00055		mg/L	3.2	20	26-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-3 DUP		**L2532200-2**						
Barium (Ba)-Total		0.00760	0.00774		mg/L	1.8	20	26-NOV-20
Beryllium (Be)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-NOV-20
Bismuth (Bi)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	26-NOV-20
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	26-NOV-20
Cadmium (Cd)-Total		<0.0000050	<0.0000050	RPD-NA	mg/L	N/A	20	26-NOV-20
Calcium (Ca)-Total		10.7	10.8		mg/L	1.3	20	26-NOV-20
Cesium (Cs)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	26-NOV-20
Chromium (Cr)-Total		0.00021	0.00019		mg/L	12	20	26-NOV-20
Cobalt (Co)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-NOV-20
Copper (Cu)-Total		0.00081	0.00080		mg/L	1.4	20	26-NOV-20
Iron (Fe)-Total		0.033	0.033		mg/L	0.3	20	26-NOV-20
Lead (Pb)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	26-NOV-20
Lithium (Li)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	26-NOV-20
Magnesium (Mg)-Total		1.53	1.53		mg/L	0.3	20	26-NOV-20
Manganese (Mn)-Total		0.00660	0.00667		mg/L	1.1	20	26-NOV-20
Molybdenum (Mo)-Total		0.000117	0.000103		mg/L	13	20	26-NOV-20
Nickel (Ni)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	26-NOV-20
Phosphorus (P)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	20	26-NOV-20
Potassium (K)-Total		0.710	0.726		mg/L	2.2	20	26-NOV-20
Rubidium (Rb)-Total		0.00177	0.00180		mg/L	1.9	20	26-NOV-20
Selenium (Se)-Total		<0.000050	0.000089	RPD-NA	mg/L	N/A	20	26-NOV-20
Silicon (Si)-Total		1.20	1.21		mg/L	0.9	20	26-NOV-20
Silver (Ag)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	26-NOV-20
Sodium (Na)-Total		0.739	0.741		mg/L	0.3	20	26-NOV-20
Strontium (Sr)-Total		0.0256	0.0256		mg/L	0.2	20	26-NOV-20
Sulfur (S)-Total		1.18	1.22		mg/L	3.1	20	26-NOV-20
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	26-NOV-20
Thallium (Tl)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	26-NOV-20
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-NOV-20
Tin (Sn)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-NOV-20
Titanium (Ti)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	26-NOV-20
Tungsten (W)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-NOV-20
Uranium (U)-Total		0.000012	0.000014		mg/L	15	20	26-NOV-20
Vanadium (V)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	26-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-3 DUP		**L2532200-2**						
Zinc (Zn)-Total		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	26-NOV-20
Zirconium (Zr)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	26-NOV-20
WG3452207-2 LCS								
Aluminum (Al)-Total			98.4		%		80-120	26-NOV-20
Antimony (Sb)-Total			103.1		%		80-120	26-NOV-20
Arsenic (As)-Total			102.4		%		80-120	26-NOV-20
Barium (Ba)-Total			102.6		%		80-120	26-NOV-20
Beryllium (Be)-Total			97.4		%		80-120	26-NOV-20
Bismuth (Bi)-Total			102.9		%		80-120	26-NOV-20
Boron (B)-Total			90.9		%		80-120	26-NOV-20
Cadmium (Cd)-Total			102.9		%		80-120	26-NOV-20
Calcium (Ca)-Total			98.4		%		80-120	26-NOV-20
Cesium (Cs)-Total			99.7		%		80-120	26-NOV-20
Chromium (Cr)-Total			100.5		%		80-120	26-NOV-20
Cobalt (Co)-Total			100.6		%		80-120	26-NOV-20
Copper (Cu)-Total			98.5		%		80-120	26-NOV-20
Iron (Fe)-Total			98.3		%		80-120	26-NOV-20
Lead (Pb)-Total			103.2		%		80-120	26-NOV-20
Lithium (Li)-Total			99.0		%		80-120	26-NOV-20
Magnesium (Mg)-Total			100.5		%		80-120	26-NOV-20
Manganese (Mn)-Total			102.6		%		80-120	26-NOV-20
Molybdenum (Mo)-Total			101.4		%		80-120	26-NOV-20
Nickel (Ni)-Total			99.6		%		80-120	26-NOV-20
Phosphorus (P)-Total			105.9		%		80-120	26-NOV-20
Potassium (K)-Total			106.3		%		80-120	26-NOV-20
Rubidium (Rb)-Total			104.6		%		80-120	26-NOV-20
Selenium (Se)-Total			97.1		%		80-120	26-NOV-20
Silicon (Si)-Total			99.2		%		80-120	26-NOV-20
Silver (Ag)-Total			101.5		%		80-120	26-NOV-20
Sodium (Na)-Total			102.7		%		80-120	26-NOV-20
Strontium (Sr)-Total			101.3		%		80-120	26-NOV-20
Sulfur (S)-Total			105.7		%		80-120	26-NOV-20
Tellurium (Te)-Total			106.7		%		80-120	26-NOV-20
Thallium (Tl)-Total			103.8		%		80-120	26-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-2 LCS								
Thorium (Th)-Total			102.7		%		80-120	26-NOV-20
Tin (Sn)-Total			102.1		%		80-120	26-NOV-20
Titanium (Ti)-Total			100.6		%		80-120	26-NOV-20
Tungsten (W)-Total			100.9		%		80-120	26-NOV-20
Uranium (U)-Total			103.4		%		80-120	26-NOV-20
Vanadium (V)-Total			100.8		%		80-120	26-NOV-20
Zinc (Zn)-Total			96.2		%		80-120	26-NOV-20
Zirconium (Zr)-Total			99.7		%		80-120	26-NOV-20
WG3452207-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	26-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	26-NOV-20
Cadmium (Cd)-Total			<0.000005C		mg/L		0.000005	26-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	26-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	26-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	26-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	26-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	26-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	26-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Silicon (Si)-Total			<0.10		mg/L		0.1	26-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-1 MB								
Silver (Ag)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	26-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	26-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	26-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	26-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	26-NOV-20
NH3-F-TB	Water							
Batch R5296490								
WG3449424-3 DUP		**L2532200-2**						
Ammonia, Total (as N)		0.0206	0.0121	J	mg/L	0.0085	0.01	23-NOV-20
WG3449424-2 LCS								
Ammonia, Total (as N)			108.4		%		85-115	23-NOV-20
WG3449424-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	23-NOV-20
WG3449424-4 MS		**L2532200-1**						
Ammonia, Total (as N)			113.9		%		75-125	23-NOV-20
NO2-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Nitrite (as N)			99.5		%		90-110	25-NOV-20
WG3451734-5 MB								
Nitrite (as N)			<0.010		mg/L		0.01	25-NOV-20
NO3-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Nitrate (as N)			98.4		%		90-110	25-NOV-20
WG3451734-5 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-N-WP	Water							
Batch R5299112								
WG3451734-5 MB								
Nitrate (as N)			<0.020		mg/L		0.02	25-NOV-20
P-T-COL-TB	Water							
Batch R5297194								
WG3449429-2 LCS								
Phosphorus (P)-Total			100.6		%		80-120	24-NOV-20
WG3449429-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	24-NOV-20
PH-TITR-TB	Water							
Batch R5294240								
WG3449452-3 DUP		**L2532200-1**						
pH		7.43	7.44	J	pH	0.01	0.2	21-NOV-20
WG3449452-2 LCS								
pH			6.95		pH		6.9-7.1	21-NOV-20
PO4-DO-COL-TB	Water							
Batch R5295637								
WG3449460-2 LCS								
Orthophosphate-Dissolved (as P)			97.5		%		80-120	23-NOV-20
WG3449460-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	23-NOV-20
WG3449460-4 MS		**L2532200-2**						
Orthophosphate-Dissolved (as P)			96.7		%		70-130	23-NOV-20
SO4-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Sulfate (SO4)			100.8		%		90-110	25-NOV-20
WG3451734-5 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	25-NOV-20
TDS-TB	Water							
Batch R5296620								
WG3449774-2 LCS								
Total Dissolved Solids			96.2		%		85-115	23-NOV-20
WG3449774-1 MB								
Total Dissolved Solids			<10		mg/L		10	23-NOV-20
TKN-F-TB	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TKN-F-TB	Water							
Batch R5296799								
WG3449428-2 LCS								
Total Kjeldahl Nitrogen			102.5		%		75-125	24-NOV-20
WG3449428-1 MB								
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	24-NOV-20
TOC-WT	Water							
Batch R5300428								
WG3452541-3 DUP		**L2532200-2**						
Total Organic Carbon		8.15	8.31		mg/L	2.0	20	30-NOV-20
WG3452541-2 LCS								
Total Organic Carbon			98.0		%		80-120	30-NOV-20
WG3452541-1 MB								
Total Organic Carbon			<0.50		mg/L		0.5	30-NOV-20
WG3452541-4 MS		**L2532200-2**						
Total Organic Carbon			100.0		%		70-130	30-NOV-20
TSS-TB	Water							
Batch R5296528								
WG3449775-2 LCS								
Total Suspended Solids			94.3		%		85-115	23-NOV-20
WG3449775-1 MB								
Total Suspended Solids			<3.0		mg/L		3	23-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Anions and Nutrients							
Nitrate in Water by IC							
	1	17-NOV-20 11:12	25-NOV-20 12:30	3	8	days	EHTR
	2	17-NOV-20 11:40	25-NOV-20 12:30	3	8	days	EHTR
Nitrite in Water by IC							
	1	17-NOV-20 11:12	25-NOV-20 12:30	3	8	days	EHTR
	2	17-NOV-20 11:40	25-NOV-20 12:30	3	8	days	EHTR

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2532200 were received on 21-NOV-20 09:00.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2532200-COFC

Number: 17 -

Page 1 of 3

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Quality Control (QC) Report with Report ☐ YES ☐ NO

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1: dmchaina@firstmininggold.com

Email 2: shaun@firstmininggold.com / shila@firstmininggold.com

Email 3: john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accountspayable@firstmininggold.com

Email 2: dmchaina@firstmininggold.com

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

Priority (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

Emergency: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	20864 / Q64154	AFE/Cost Center:	PO#:
Job #:	Springpole Pump Test - Surface Water	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:	First Mining Gold Project	Location:	
ALS Lab Work Order # (lab use only):	L2532200	ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	F, NO2,NO3, pH, SO4, PO4	TDS, TSS	DOC, COD	TOC, Total Ammonia, Total Phosphorous, TKN	Total Metals	Dissolved Metals, Hardness	Total Mercury	Dissolved Mercury	Total CR6	Dissolved CR6		Dissolved Inorgainc Carbon (DIC)	Total Methyl Mercury	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
									F/P	P	P	F/P	P	F/P	P	F/P			P		
-1	3134-AQ-Lake1-201117	17-Nov-20	11:12	Surface Water	12	X	X	X	X	X	X	X	X	X	X	X		x	x		
-2	3134-AQ-Lake2-201117	17-Nov-20	11:40	Surface Water	12	X	X	X	X	X	X	X	X	X	X	X		x	x		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☑

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
2.8	

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by: SCF	Date: 21/20/NOV/20	Time: 900	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2015 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 21- NOV- 20
Report Date: 08- DEC- 20 10:01 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2532206

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - GROUNDWATER
C of C Numbers:
Legal Site Desc: First Mining Gold Project

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532206-1 3134-AQ-SPW20-001-201116 Sampled By: Client on 16-NOV-20 @ 11:40 Matrix: Groundwater							
Physical Tests							
Conductivity (EC)	1090		1.0	uS/cm		21-NOV-20	R5294240
Hardness (as CaCO3)	526		0.50	mg/L		27-NOV-20	
pH	7.57		0.10	pH		21-NOV-20	R5294240
Total Suspended Solids	<3.0		3.0	mg/L		21-NOV-20	R5293843
Total Dissolved Solids	825		20	mg/L		21-NOV-20	R5294756
Anions and Nutrients							
Acidity (as CaCO3)	7.9		2.0	mg/L		23-NOV-20	R5296488
Alkalinity, Total (as CaCO3)	239		2.0	mg/L		21-NOV-20	R5294240
Ammonia, Total (as N)	0.372		0.0050	mg/L	21-NOV-20	23-NOV-20	R5296490
Bromide (Br)	0.91		0.50	mg/L		25-NOV-20	R5299112
Chloride (Cl)	48.1		0.50	mg/L		25-NOV-20	R5299112
Fluoride (F)	0.22		0.10	mg/L		25-NOV-20	R5299112
Nitrate (as N)	<0.10	DLM	0.10	mg/L		25-NOV-20	R5299112
Nitrite (as N)	<0.050	DLM	0.050	mg/L		25-NOV-20	R5299112
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	21-NOV-20	23-NOV-20	R5295637
Phosphorus (P)-Total	<0.0030		0.0030	mg/L	24-NOV-20	24-NOV-20	R5297194
Sulfate (SO4)	300		1.5	mg/L		25-NOV-20	R5299112
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				16-NOV-20	24-NOV-20	R5297021
Dissolved Organic Carbon	7.94		0.50	mg/L	16-NOV-20	26-NOV-20	R5298816
Total Metals							
Aluminum (Al)-Total	0.0136		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Antimony (Sb)-Total	0.00017		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Arsenic (As)-Total	0.00399		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Barium (Ba)-Total	0.113		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Beryllium (Be)-Total	0.00013		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Boron (B)-Total	0.038		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Calcium (Ca)-Total	186		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Cesium (Cs)-Total	0.000476		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Chromium (Cr)-Total	0.00042		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cobalt (Co)-Total	0.00011		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Copper (Cu)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Iron (Fe)-Total	1.65		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Lead (Pb)-Total	0.000219		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Lithium (Li)-Total	0.0035		0.0010	mg/L	26-NOV-20	26-NOV-20	R5298612
Magnesium (Mg)-Total	18.5		0.0050	mg/L	26-NOV-20	26-NOV-20	R5298612
Manganese (Mn)-Total	0.482		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Molybdenum (Mo)-Total	0.00191		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Nickel (Ni)-Total	0.00067		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532206-1 3134-AQ-SPW20-001-201116 Sampled By: Client on 16-NOV-20 @ 11:40 Matrix: Groundwater							
Total Metals							
Potassium (K)-Total	2.49		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Rubidium (Rb)-Total	0.00310		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Selenium (Se)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Silicon (Si)-Total	6.87		0.10	mg/L	26-NOV-20	26-NOV-20	R5298612
Silver (Ag)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Sodium (Na)-Total	25.9		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Strontium (Sr)-Total	4.77		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Sulfur (S)-Total	105		0.50	mg/L	26-NOV-20	26-NOV-20	R5298612
Tellurium (Te)-Total	0.00022		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Titanium (Ti)-Total	<0.00060	DLM	0.00060	mg/L	26-NOV-20	26-NOV-20	R5298612
Tungsten (W)-Total	0.00421		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Uranium (U)-Total	0.000484		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Vanadium (V)-Total	0.00165		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Zinc (Zn)-Total	0.0055		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Zirconium (Zr)-Total	0.00434		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298102
Dissolved Metals Filtration Location	FIELD					24-NOV-20	R5297949
Aluminum (Al)-Dissolved	0.0104		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Antimony (Sb)-Dissolved	0.00016		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Arsenic (As)-Dissolved	0.00387		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Barium (Ba)-Dissolved	0.115		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Beryllium (Be)-Dissolved	0.00014		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Boron (B)-Dissolved	0.033		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Calcium (Ca)-Dissolved	179		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Cesium (Cs)-Dissolved	0.000461		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Chromium (Cr)-Dissolved	0.00042		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cobalt (Co)-Dissolved	0.00011		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Iron (Fe)-Dissolved	1.65		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Lead (Pb)-Dissolved	0.000192		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Lithium (Li)-Dissolved	0.0027		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Magnesium (Mg)-Dissolved	19.3		0.0050	mg/L	24-NOV-20	25-NOV-20	R5298218
Manganese (Mn)-Dissolved	0.502		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298811
Molybdenum (Mo)-Dissolved	0.00185		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532206-1 3134-AQ-SPW20-001-201116 Sampled By: Client on 16-NOV-20 @ 11:40 Matrix: Groundwater							
Dissolved Metals							
Nickel (Ni)-Dissolved	0.00068		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Potassium (K)-Dissolved	2.39		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Rubidium (Rb)-Dissolved	0.00289		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silicon (Si)-Dissolved	6.85		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Sodium (Na)-Dissolved	27.4		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Strontium (Sr)-Dissolved	4.85		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Sulfur (S)-Dissolved	99.3		0.50	mg/L	24-NOV-20	25-NOV-20	R5298218
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Titanium (Ti)-Dissolved	0.00044		0.00030	mg/L	24-NOV-20	25-NOV-20	R5298218
Tungsten (W)-Dissolved	0.00402		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Uranium (U)-Dissolved	0.000477		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Vanadium (V)-Dissolved	0.00157		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Zinc (Zn)-Dissolved	0.0049		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Zirconium (Zr)-Dissolved	0.00399		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		24-NOV-20	R5297142
L2532206-2 FIELD BLANK Sampled By: Client on 16-NOV-20 @ 11:26 Matrix: Water							
Physical Tests							
Conductivity (EC)	2.3		1.0	uS/cm		21-NOV-20	R5294240
Hardness (as CaCO3)	<0.50		0.50	mg/L		27-NOV-20	
pH	6.06		0.10	pH		21-NOV-20	R5294240
Total Suspended Solids	<3.0		3.0	mg/L		21-NOV-20	R5293843
Total Dissolved Solids	<10		10	mg/L		21-NOV-20	R5294756
Anions and Nutrients							
Acidity (as CaCO3)	2.2		2.0	mg/L		23-NOV-20	R5296488
Alkalinity, Total (as CaCO3)	<2.0		2.0	mg/L		21-NOV-20	R5294240
Ammonia, Total (as N)	<0.0050		0.0050	mg/L	21-NOV-20	23-NOV-20	R5296490
Bromide (Br)	<0.10		0.10	mg/L		25-NOV-20	R5299112
Chloride (Cl)	<0.10		0.10	mg/L		25-NOV-20	R5299112
Fluoride (F)	0.233		0.020	mg/L		25-NOV-20	R5299112
Nitrate (as N)	<0.020		0.020	mg/L		25-NOV-20	R5299112
Nitrite (as N)	<0.010		0.010	mg/L		25-NOV-20	R5299112
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	21-NOV-20	23-NOV-20	R5295637
Phosphorus (P)-Total	0.0050		0.0030	mg/L	24-NOV-20	24-NOV-20	R5297194

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532206-2 FIELD BLANK Sampled By: Client on 16-NOV-20 @ 11:26 Matrix: Water							
Anions and Nutrients							
Silica, Reactive (as SiO2)	0.102		0.010	mg/L		26-NOV-20	R5298851
Sulfate (SO4)	<0.30		0.30	mg/L		25-NOV-20	R5299112
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				16-NOV-20	24-NOV-20	R5297022
Dissolved Organic Carbon	<0.50		0.50	mg/L	16-NOV-20	30-NOV-20	R5300272
Total Metals							
Aluminum (Al)-Total	<0.0030		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Arsenic (As)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Barium (Ba)-Total	0.00075		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Boron (B)-Total	0.010		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Calcium (Ca)-Total	0.091		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Cesium (Cs)-Total	0.000017		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Chromium (Cr)-Total	0.00074		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Copper (Cu)-Total	0.00116		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Iron (Fe)-Total	<0.010		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Lead (Pb)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Lithium (Li)-Total	<0.0010		0.0010	mg/L	26-NOV-20	26-NOV-20	R5298612
Magnesium (Mg)-Total	0.0088		0.0050	mg/L	26-NOV-20	26-NOV-20	R5298612
Manganese (Mn)-Total	0.00023		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Molybdenum (Mo)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Potassium (K)-Total	<0.050		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Selenium (Se)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Silicon (Si)-Total	<0.10		0.10	mg/L	26-NOV-20	26-NOV-20	R5298612
Silver (Ag)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Sodium (Na)-Total	0.497		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Strontium (Sr)-Total	0.00053		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Sulfur (S)-Total	0.58		0.50	mg/L	26-NOV-20	26-NOV-20	R5298612
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	26-NOV-20	26-NOV-20	R5298612
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532206-2 FIELD BLANK Sampled By: Client on 16-NOV-20 @ 11:26 Matrix: Water							
Total Metals							
Uranium (U)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Vanadium (V)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Zinc (Zn)-Total	0.0048		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298102
Dissolved Metals Filtration Location	FIELD					24-NOV-20	R5297949
Aluminum (Al)-Dissolved	<0.0010		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Barium (Ba)-Dissolved	0.00076		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Boron (B)-Dissolved	<0.010		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Calcium (Ca)-Dissolved	0.115		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Cesium (Cs)-Dissolved	0.000014		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Chromium (Cr)-Dissolved	0.00074		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Copper (Cu)-Dissolved	0.00107		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Magnesium (Mg)-Dissolved	0.0086		0.0050	mg/L	24-NOV-20	25-NOV-20	R5298218
Manganese (Mn)-Dissolved	0.00016		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298811
Molybdenum (Mo)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Potassium (K)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Sodium (Na)-Dissolved	0.517		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Strontium (Sr)-Dissolved	0.00060		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	24-NOV-20	25-NOV-20	R5298218
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532206-2 FIELD BLANK Sampled By: Client on 16-NOV-20 @ 11:26 Matrix: Water							
Dissolved Metals							
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	24-NOV-20	25-NOV-20	R5298218
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Uranium (U)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Speciated Metals							
Chromium (VI)-Dissolved	0.00067		0.00050	mg/L		24-NOV-20	R5297142
L2532206-3 TRIP BLANK Sampled By: Client on 16-NOV-20 @ 00:01 Matrix: Water							
Physical Tests							
Conductivity (EC)	<1.0		1.0	uS/cm		21-NOV-20	R5294240
Hardness (as CaCO3)	<0.50		0.50	mg/L		27-NOV-20	
pH	5.42		0.10	pH		21-NOV-20	R5294240
Total Suspended Solids	<3.0		3.0	mg/L		21-NOV-20	R5293843
Total Dissolved Solids	<10		10	mg/L		21-NOV-20	R5294756
Anions and Nutrients							
Acidity (as CaCO3)	2.4		2.0	mg/L		23-NOV-20	R5296488
Alkalinity, Total (as CaCO3)	<2.0		2.0	mg/L		21-NOV-20	R5294240
Ammonia, Total (as N)	<0.0050		0.0050	mg/L	21-NOV-20	23-NOV-20	R5296490
Bromide (Br)	<0.10		0.10	mg/L		25-NOV-20	R5299112
Chloride (Cl)	<0.10		0.10	mg/L		25-NOV-20	R5299112
Fluoride (F)	<0.020		0.020	mg/L		25-NOV-20	R5299112
Nitrate (as N)	<0.020		0.020	mg/L		25-NOV-20	R5299112
Nitrite (as N)	<0.010		0.010	mg/L		25-NOV-20	R5299112
Orthophosphate-Dissolved (as P)	<0.0030		0.0030	mg/L	21-NOV-20	23-NOV-20	R5295637
Phosphorus (P)-Total	<0.0030		0.0030	mg/L	24-NOV-20	24-NOV-20	R5297194
Silica, Reactive (as SiO2)	<0.010		0.010	mg/L		28-NOV-20	R5298851
Sulfate (SO4)	<0.30		0.30	mg/L		25-NOV-20	R5299112
Organic / Inorganic Carbon							
Dissolved Carbon Filtration Location	FIELD				16-NOV-20	24-NOV-20	R5297022
Dissolved Organic Carbon	<0.50		0.50	mg/L	16-NOV-20	30-NOV-20	R5300272
Total Metals							
Aluminum (Al)-Total	<0.0030		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Arsenic (As)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Barium (Ba)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Boron (B)-Total	<0.010		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	26-NOV-20	26-NOV-20	R5298612

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532206-3 TRIP BLANK Sampled By: Client on 16-NOV-20 @ 00:01 Matrix: Water							
Total Metals							
Calcium (Ca)-Total	<0.050		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Chromium (Cr)-Total	0.00020	RRV	0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Copper (Cu)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Iron (Fe)-Total	<0.010		0.010	mg/L	26-NOV-20	26-NOV-20	R5298612
Lead (Pb)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Lithium (Li)-Total	<0.0010		0.0010	mg/L	26-NOV-20	26-NOV-20	R5298612
Magnesium (Mg)-Total	<0.0050		0.0050	mg/L	26-NOV-20	26-NOV-20	R5298612
Manganese (Mn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Molybdenum (Mo)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Potassium (K)-Total	<0.050		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Selenium (Se)-Total	<0.000050		0.000050	mg/L	26-NOV-20	26-NOV-20	R5298612
Silicon (Si)-Total	<0.10		0.10	mg/L	26-NOV-20	26-NOV-20	R5298612
Silver (Ag)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Sodium (Na)-Total	<0.050		0.050	mg/L	26-NOV-20	26-NOV-20	R5298612
Strontium (Sr)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Sulfur (S)-Total	0.64		0.50	mg/L	26-NOV-20	26-NOV-20	R5298612
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	26-NOV-20	26-NOV-20	R5298612
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	26-NOV-20	R5298612
Uranium (U)-Total	<0.000010		0.000010	mg/L	26-NOV-20	26-NOV-20	R5298612
Vanadium (V)-Total	<0.00050		0.00050	mg/L	26-NOV-20	26-NOV-20	R5298612
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	26-NOV-20	26-NOV-20	R5298612
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	26-NOV-20	26-NOV-20	R5298612
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298102
Dissolved Metals Filtration Location	FIELD					24-NOV-20	R5297949
Aluminum (Al)-Dissolved	<0.0010		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Barium (Ba)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Boron (B)-Dissolved	<0.010		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532206-3 TRIP BLANK Sampled By: Client on 16-NOV-20 @ 00:01 Matrix: Water							
Dissolved Metals							
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Chromium (Cr)-Dissolved	0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	24-NOV-20	25-NOV-20	R5298218
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Magnesium (Mg)-Dissolved	<0.0050		0.0050	mg/L	24-NOV-20	25-NOV-20	R5298218
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298811
Molybdenum (Mo)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Potassium (K)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Sodium (Na)-Dissolved	<0.050		0.050	mg/L	24-NOV-20	25-NOV-20	R5298218
Strontium (Sr)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	24-NOV-20	25-NOV-20	R5298218
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	24-NOV-20	25-NOV-20	R5298218
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	24-NOV-20	25-NOV-20	R5298218
Uranium (U)-Dissolved	<0.000010		0.000010	mg/L	24-NOV-20	25-NOV-20	R5298218
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	24-NOV-20	25-NOV-20	R5298218
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	24-NOV-20	25-NOV-20	R5298218
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	24-NOV-20	25-NOV-20	R5298218
Speciated Metals							
Chromium (VI)-Dissolved	<0.00050		0.00050	mg/L		24-NOV-20	R5297142

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Total Dissolved Solids	B	L2532206-1, -2, -3
Matrix Spike	Barium (Ba)-Total	MS-B	L2532206-1, -2, -3
Matrix Spike	Calcium (Ca)-Total	MS-B	L2532206-1, -2, -3
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2532206-1, -2, -3
Matrix Spike	Manganese (Mn)-Total	MS-B	L2532206-1, -2, -3
Matrix Spike	Sodium (Na)-Total	MS-B	L2532206-1, -2, -3
Matrix Spike	Strontium (Sr)-Total	MS-B	L2532206-1, -2, -3
Matrix Spike	Sulfur (S)-Total	MS-B	L2532206-1, -2, -3

Sample Parameter Qualifier key listed:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-TITR-TB	Water	Acidity	APHA 2310 B modified

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

ALK-TITR-TB	Water	Alkalinity	APHA 2320B modified

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

BR-IC-N-WP	Water	Bromide in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CL-L-IC-N-WP	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

CR-CR6-DIS-WT	Water	Dissolved Hexavalent Chromium in Water	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DOC-WT	Water	Dissolved Organic Carbon	APHA 5310B

Sample is filtered through a 0.45um filter, then injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

EC-SCREEN-WP	Water	Conductivity Screen (Internal Use Only)	APHA 2510

Qualitative analysis of conductivity where required during preparation of other test eg. IC, TDS, TSS, etc

EC-TITR-TB	Water	Conductivity	APHA 2510 B

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-WP	Water	Fluoride in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB	Water	Hardness (as CaCO3)	CALCULATION
HG-D-CVAA-WT	Water	Dissolved Mercury in Water by CVAAS	EPA 1631E (mod)

Reference Information

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-CCMS-TB	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-TB	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-TB	Water	Ammonia, Total (as N)	catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NO2-IC-N-WP	Water	Nitrite in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-WP	Water	Nitrate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-COL-TB	Water	Total Phosphorus by Discrete Analyzer	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

PH-TITR-TB	Water	pH	APHA 4500-H

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB	Water	Dissolved Orthophosphate	APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2

This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.

SO4-IC-N-WP	Water	Sulfate in Water by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-TB	Water	Total Dissolved Solids	APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TSS-TB	Water	Total Suspended Solids	APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2
Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-TITR-TB	Water							
Batch R5296488								
WG3449458-3 DUP		**L2532206-1**						
Acidity (as CaCO3)		7.9	7.4		mg/L	7.0	20	23-NOV-20
WG3449458-2 LCS								
Acidity (as CaCO3)			97.2		%		85-115	23-NOV-20
WG3449458-1 MB								
Acidity (as CaCO3)			2.2		mg/L		4	23-NOV-20
ALK-TITR-TB	Water							
Batch R5294240								
WG3449453-2 LCS								
Alkalinity, Total (as CaCO3)			103.2		%		85-115	21-NOV-20
WG3449453-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	21-NOV-20
BR-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Bromide (Br)			100.2		%		85-115	25-NOV-20
WG3451734-5 MB								
Bromide (Br)			<0.10		mg/L		0.1	25-NOV-20
CL-L-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Chloride (Cl)			98.8		%		90-110	25-NOV-20
WG3451734-5 MB								
Chloride (Cl)			<0.10		mg/L		0.1	25-NOV-20
CR-CR6-DIS-WT	Water							
Batch R5297142								
WG3450954-2 LCS								
Chromium (VI)-Dissolved			98.4		%		70-130	24-NOV-20
WG3450954-1 MB								
Chromium (VI)-Dissolved			<0.00050		mg/L		0.0005	24-NOV-20
DOC-WT	Water							
Batch R5298816								
WG3451092-2 LCS								
Dissolved Organic Carbon			98.1		%		80-120	26-NOV-20
WG3451092-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	26-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DOC-WT	Water							
Batch R5300272								
WG3451098-3 DUP		**L2532206-2**						
Dissolved Organic Carbon		<0.50	<0.50	RPD-NA	mg/L	N/A	20	30-NOV-20
WG3451098-2 LCS								
Dissolved Organic Carbon			92.1		%		80-120	30-NOV-20
WG3451098-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	30-NOV-20
WG3451098-4 MS		**L2532206-2**						
Dissolved Organic Carbon			96.2		%		70-130	30-NOV-20
EC-TITR-TB	Water							
Batch R5294240								
WG3449453-2 LCS								
Conductivity (EC)			99.6		%		90-110	21-NOV-20
WG3449453-1 MB								
Conductivity (EC)			<1.0		uS/cm		2	21-NOV-20
F-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Fluoride (F)			102.5		%		90-110	25-NOV-20
WG3451734-5 MB								
Fluoride (F)			<0.020		mg/L		0.02	25-NOV-20
HG-D-CVAA-WT	Water							
Batch R5298811								
WG3452277-2 LCS								
Mercury (Hg)-Dissolved			108.0		%		80-120	27-NOV-20
WG3452277-1 MB								
Mercury (Hg)-Dissolved			<0.000005(		mg/L		0.000005	27-NOV-20
MET-D-CCMS-TB	Water							
Batch R5298218								
WG3450635-6 LCS								
Aluminum (Al)-Dissolved			100.8		%		80-120	25-NOV-20
Antimony (Sb)-Dissolved			98.0		%		80-120	25-NOV-20
Arsenic (As)-Dissolved			104.5		%		80-120	25-NOV-20
Barium (Ba)-Dissolved			103.9		%		80-120	25-NOV-20
Beryllium (Be)-Dissolved			96.2		%		80-120	25-NOV-20
Bismuth (Bi)-Dissolved			97.5		%		80-120	25-NOV-20
Boron (B)-Dissolved			88.9		%		80-120	25-NOV-20
Cadmium (Cd)-Dissolved			105.1		%		80-120	25-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5298218								
WG3450635-6 LCS								
Calcium (Ca)-Dissolved			99.1		%		80-120	25-NOV-20
Cesium (Cs)-Dissolved			99.6		%		80-120	25-NOV-20
Chromium (Cr)-Dissolved			101.3		%		80-120	25-NOV-20
Cobalt (Co)-Dissolved			100.6		%		80-120	25-NOV-20
Copper (Cu)-Dissolved			100.6		%		80-120	25-NOV-20
Iron (Fe)-Dissolved			106.3		%		80-120	25-NOV-20
Lead (Pb)-Dissolved			96.6		%		80-120	25-NOV-20
Lithium (Li)-Dissolved			93.0		%		80-120	25-NOV-20
Magnesium (Mg)-Dissolved			105.2		%		80-120	25-NOV-20
Manganese (Mn)-Dissolved			101.9		%		80-120	25-NOV-20
Molybdenum (Mo)-Dissolved			101.2		%		80-120	25-NOV-20
Nickel (Ni)-Dissolved			99.2		%		80-120	25-NOV-20
Phosphorus (P)-Dissolved			107.7		%		80-120	25-NOV-20
Potassium (K)-Dissolved			105.2		%		80-120	25-NOV-20
Rubidium (Rb)-Dissolved			103.2		%		80-120	25-NOV-20
Selenium (Se)-Dissolved			102.9		%		80-120	25-NOV-20
Silicon (Si)-Dissolved			99.98		%		80-120	25-NOV-20
Silver (Ag)-Dissolved			100.6		%		80-120	25-NOV-20
Sodium (Na)-Dissolved			105.1		%		80-120	25-NOV-20
Strontium (Sr)-Dissolved			105.1		%		80-120	25-NOV-20
Sulfur (S)-Dissolved			99.9		%		80-120	25-NOV-20
Tellurium (Te)-Dissolved			100.6		%		80-120	25-NOV-20
Thallium (Tl)-Dissolved			96.8		%		80-120	25-NOV-20
Thorium (Th)-Dissolved			95.1		%		80-120	25-NOV-20
Tin (Sn)-Dissolved			98.2		%		80-120	25-NOV-20
Titanium (Ti)-Dissolved			101.8		%		80-120	25-NOV-20
Tungsten (W)-Dissolved			98.5		%		80-120	25-NOV-20
Uranium (U)-Dissolved			98.3		%		80-120	25-NOV-20
Vanadium (V)-Dissolved			101.5		%		80-120	25-NOV-20
Zinc (Zn)-Dissolved			99.8		%		80-120	25-NOV-20
Zirconium (Zr)-Dissolved			100.5		%		80-120	25-NOV-20
WG3450635-5 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	25-NOV-20
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5298218								
WG3450635-5 MB								
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Boron (B)-Dissolved			<0.010		mg/L		0.01	25-NOV-20
Cadmium (Cd)-Dissolved			<0.0000050		mg/L		0.000005	25-NOV-20
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	25-NOV-20
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	25-NOV-20
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	25-NOV-20
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	25-NOV-20
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Potassium (K)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	25-NOV-20
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	25-NOV-20
Strontium (Sr)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	25-NOV-20
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	25-NOV-20
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	25-NOV-20
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	25-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-TB	Water							
Batch R5298218								
WG3450635-5 MB								
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	25-NOV-20
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	25-NOV-20
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	25-NOV-20
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-2 LCS								
Aluminum (Al)-Total			98.4		%		80-120	26-NOV-20
Antimony (Sb)-Total			103.1		%		80-120	26-NOV-20
Arsenic (As)-Total			102.4		%		80-120	26-NOV-20
Barium (Ba)-Total			102.6		%		80-120	26-NOV-20
Beryllium (Be)-Total			97.4		%		80-120	26-NOV-20
Bismuth (Bi)-Total			102.9		%		80-120	26-NOV-20
Boron (B)-Total			90.9		%		80-120	26-NOV-20
Cadmium (Cd)-Total			102.9		%		80-120	26-NOV-20
Calcium (Ca)-Total			98.4		%		80-120	26-NOV-20
Cesium (Cs)-Total			99.7		%		80-120	26-NOV-20
Chromium (Cr)-Total			100.5		%		80-120	26-NOV-20
Cobalt (Co)-Total			100.6		%		80-120	26-NOV-20
Copper (Cu)-Total			98.5		%		80-120	26-NOV-20
Iron (Fe)-Total			98.3		%		80-120	26-NOV-20
Lead (Pb)-Total			103.2		%		80-120	26-NOV-20
Lithium (Li)-Total			99.0		%		80-120	26-NOV-20
Magnesium (Mg)-Total			100.5		%		80-120	26-NOV-20
Manganese (Mn)-Total			102.6		%		80-120	26-NOV-20
Molybdenum (Mo)-Total			101.4		%		80-120	26-NOV-20
Nickel (Ni)-Total			99.6		%		80-120	26-NOV-20
Phosphorus (P)-Total			105.9		%		80-120	26-NOV-20
Potassium (K)-Total			106.3		%		80-120	26-NOV-20
Rubidium (Rb)-Total			104.6		%		80-120	26-NOV-20
Selenium (Se)-Total			97.1		%		80-120	26-NOV-20
Silicon (Si)-Total			99.2		%		80-120	26-NOV-20
Silver (Ag)-Total			101.5		%		80-120	26-NOV-20
Sodium (Na)-Total			102.7		%		80-120	26-NOV-20
Strontium (Sr)-Total			101.3		%		80-120	26-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-2 LCS								
Sulfur (S)-Total			105.7		%		80-120	26-NOV-20
Tellurium (Te)-Total			106.7		%		80-120	26-NOV-20
Thallium (Tl)-Total			103.8		%		80-120	26-NOV-20
Thorium (Th)-Total			102.7		%		80-120	26-NOV-20
Tin (Sn)-Total			102.1		%		80-120	26-NOV-20
Titanium (Ti)-Total			100.6		%		80-120	26-NOV-20
Tungsten (W)-Total			100.9		%		80-120	26-NOV-20
Uranium (U)-Total			103.4		%		80-120	26-NOV-20
Vanadium (V)-Total			100.8		%		80-120	26-NOV-20
Zinc (Zn)-Total			96.2		%		80-120	26-NOV-20
Zirconium (Zr)-Total			99.7		%		80-120	26-NOV-20
WG3452207-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	26-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	26-NOV-20
Cadmium (Cd)-Total			<0.000005C		mg/L		0.000005	26-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	26-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Iron (Fe)-Total			<0.010		mg/L		0.01	26-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	26-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	26-NOV-20
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	26-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	26-NOV-20

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-1 MB								
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Silicon (Si)-Total			<0.10		mg/L		0.1	26-NOV-20
Silver (Ag)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	26-NOV-20
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	26-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	26-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	26-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	26-NOV-20
WG3452207-4 MS		**L2532206-1**						
Aluminum (Al)-Total			102.6		%		70-130	26-NOV-20
Antimony (Sb)-Total			109.4		%		70-130	26-NOV-20
Arsenic (As)-Total			107.6		%		70-130	26-NOV-20
Barium (Ba)-Total			N/A	MS-B	%		-	26-NOV-20
Beryllium (Be)-Total			106.1		%		70-130	26-NOV-20
Bismuth (Bi)-Total			105.5		%		70-130	26-NOV-20
Boron (B)-Total			102.7		%		70-130	26-NOV-20
Cadmium (Cd)-Total			108.7		%		70-120	26-NOV-20
Calcium (Ca)-Total			N/A	MS-B	%		-	26-NOV-20
Cesium (Cs)-Total			111.7		%		70-130	26-NOV-20
Chromium (Cr)-Total			105.8		%		70-130	26-NOV-20
Cobalt (Co)-Total			102.8		%		70-130	26-NOV-20
Copper (Cu)-Total			102.6		%		70-130	26-NOV-20
Iron (Fe)-Total			97.5		%		70-130	26-NOV-20
Lead (Pb)-Total			106.8		%		70-130	26-NOV-20
Lithium (Li)-Total			113.9		%		70-130	26-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-TB	Water							
Batch R5298612								
WG3452207-4 MS		**L2532206-1**						
Magnesium (Mg)-Total			N/A	MS-B	%		-	26-NOV-20
Manganese (Mn)-Total			N/A	MS-B	%		-	26-NOV-20
Molybdenum (Mo)-Total			103.9		%		70-130	26-NOV-20
Nickel (Ni)-Total			103.9		%		70-130	26-NOV-20
Phosphorus (P)-Total			110.6		%		70-130	26-NOV-20
Potassium (K)-Total			102.3		%		70-130	26-NOV-20
Rubidium (Rb)-Total			107.5		%		70-130	26-NOV-20
Selenium (Se)-Total			108.2		%		70-130	26-NOV-20
Silicon (Si)-Total			81.5		%		70-130	26-NOV-20
Silver (Ag)-Total			109.2		%		70-130	26-NOV-20
Sodium (Na)-Total			N/A	MS-B	%		-	26-NOV-20
Strontium (Sr)-Total			N/A	MS-B	%		-	26-NOV-20
Sulfur (S)-Total			N/A	MS-B	%		-	26-NOV-20
Tellurium (Te)-Total			106.1		%		70-130	26-NOV-20
Thallium (Tl)-Total			106.3		%		70-130	26-NOV-20
Thorium (Th)-Total			111.0		%		70-130	26-NOV-20
Tin (Sn)-Total			106.4		%		70-130	26-NOV-20
Titanium (Ti)-Total			102.9		%		70-130	26-NOV-20
Tungsten (W)-Total			106.0		%		70-130	26-NOV-20
Uranium (U)-Total			108.5		%		70-130	26-NOV-20
Vanadium (V)-Total			108.0		%		70-130	26-NOV-20
Zinc (Zn)-Total			96.6		%		70-130	26-NOV-20
Zirconium (Zr)-Total			101.9		%		70-130	26-NOV-20
NH3-F-TB	Water							
Batch R5296490								
WG3449424-2 LCS								
Ammonia, Total (as N)			108.4		%		85-115	23-NOV-20
WG3449424-1 MB								
Ammonia, Total (as N)			<0.0050		mg/L		0.005	23-NOV-20
NO2-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Nitrite (as N)			99.5		%		90-110	25-NOV-20
WG3451734-5 MB								
Nitrite (as N)			<0.010		mg/L		0.01	25-NOV-20

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Nitrate (as N)			98.4		%		90-110	25-NOV-20
WG3451734-5 MB								
Nitrate (as N)			<0.020		mg/L		0.02	25-NOV-20
P-T-COL-TB	Water							
Batch R5297194								
WG3449429-2 LCS								
Phosphorus (P)-Total			100.6		%		80-120	24-NOV-20
WG3449429-1 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	24-NOV-20
PH-TITR-TB	Water							
Batch R5294240								
WG3449453-2 LCS								
pH			6.93		pH		6.9-7.1	21-NOV-20
PO4-DO-COL-TB	Water							
Batch R5295637								
WG3449460-3 DUP		**L2532206-1**						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	23-NOV-20
WG3449460-2 LCS								
Orthophosphate-Dissolved (as P)			97.5		%		80-120	23-NOV-20
WG3449460-1 MB								
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	23-NOV-20
SIO2-L-COL-WP	Water							
Batch R5298851								
WG3453120-3 DUP		**L2532206-2**						
Silica, Reactive (as SiO2)		0.102	0.091		mg/L	11	20	27-NOV-20
WG3453120-2 LCS								
Silica, Reactive (as SiO2)			103.3		%		85-115	26-NOV-20
WG3453120-1 MB								
Silica, Reactive (as SiO2)			<0.010		mg/L		0.01	26-NOV-20
WG3453120-4 MS		**L2532206-3**						
Silica, Reactive (as SiO2)			90.7		%		75-125	26-NOV-20
SO4-IC-N-WP	Water							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Sulfate (SO4)			100.8		%		90-110	25-NOV-20
WG3451734-5 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	25-NOV-20
TDS-TB	Water							
Batch R5294756								
WG3449479-2 LCS								
Total Dissolved Solids			97.7		%		85-115	21-NOV-20
WG3449479-1 MB								
Total Dissolved Solids			13	B	mg/L		10	21-NOV-20
TSS-TB	Water							
Batch R5293843								
WG3449478-2 LCS								
Total Suspended Solids			94.0		%		85-115	21-NOV-20
WG3449478-1 MB								
Total Suspended Solids			<3.0		mg/L		3	21-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	16-NOV-20 11:40	21-NOV-20 13:55	4	5	days	EHTR
	2	16-NOV-20 11:26	21-NOV-20 13:55	4	5	days	EHTR
	3	16-NOV-20 00:01	21-NOV-20 13:55	4	6	days	EHTR
Anions and Nutrients							
Nitrate in Water by IC							
	1	16-NOV-20 11:40	25-NOV-20 12:30	3	9	days	EHTR
	2	16-NOV-20 11:26	25-NOV-20 12:30	3	9	days	EHTR
	3	16-NOV-20 00:01	25-NOV-20 12:30	3	10	days	EHTR
Nitrite in Water by IC							
	1	16-NOV-20 11:40	25-NOV-20 12:30	3	9	days	EHTR
	2	16-NOV-20 11:26	25-NOV-20 12:30	3	9	days	EHTR
	3	16-NOV-20 00:01	25-NOV-20 12:30	3	10	days	EHTR
Metals							
Dissolved Orthophosphate							
	3	16-NOV-20 00:01	23-NOV-20 15:30	7	8	days	EHT

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2532206 were received on 21-NOV-20 09:00.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2532206-COFC

COC Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shaun@firstmininggold.com / shila@firstmininggold.com
Email 3	john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Project Information	
ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test - Groundwater
PO / AFE:	
LSD:	First Mining Gold Project

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): L2532206 **ALS Contact:** **Sampler:**

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Acidity, Alkalinity, Br, Cl, Conductivity	F, NO2,NO3, pH, SO4, PO4	TDS, TSS	DOC F/P	Total Ammonia, Total Phosphorus P	Total Metals P	Dissolved Metals, Hardness F/P	Dissolved Mercury F/P	Dissolved CR6 F/P	Dissolved Inorganic Carbon (DIC)	Reactive Silica	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
-1	3134-AQ-SPW20-001-201116	9-Nov-20	11:40	Groundwater	7	X	X	X	X	X	X	X	X	X				
-2	Field Blank	9-Nov-20	11:26	N/A	8	X	X	X	X	X	X	X	X	X		X		
-3	Trip Blank	N/A	N/A	N/A	8	X	X	X	X	X	X	X	X	X		X		

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
2.8							

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by: SCF	Date: 20/Nov/20	Time: 9:00

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2015 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Gold Canyon Resources Inc.
ATTN: Steve Lines
c/ o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Date Received: 21- NOV- 20
Report Date: 08- DEC- 20 09:16 (MT)
Version: FINAL

Client Phone: 844- 306- 8827

Certificate of Analysis

Lab Work Order #: L2532212

Project P.O. #: NOT SUBMITTED
Job Reference: SPRINGPOLE PUMP TEST - CHLORIDE
C of C Numbers:
Legal Site Desc: First Mining Gold Project



Christine Paradis
Project Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2532212-1 3134-AQ-SPW20-001-201110 Sampled By: Client on 10-NOV-20 @ 15:50 Matrix: Groundwater							
Anions and Nutrients							
Chloride (Cl)	45.3		0.20	mg/L		25-NOV-20	R5299112
L2532212-2 3134-AQ-SPW20-001-201111 Sampled By: Client on 11-NOV-20 @ 14:42 Matrix: Groundwater							
Anions and Nutrients							
Chloride (Cl)	45.9		0.20	mg/L		25-NOV-20	R5299112
L2532212-3 3134-AQ-SPW20-001-201112 Sampled By: Client on 12-NOV-20 @ 14:07 Matrix: Groundwater							
Anions and Nutrients							
Chloride (Cl)	45.6		0.20	mg/L		25-NOV-20	R5299112
L2532212-4 3134-AQ-SPW20-001-201113 Sampled By: Client on 13-NOV-20 @ 14:07 Matrix: Groundwater							
Anions and Nutrients							
Chloride (Cl)	46.8		0.20	mg/L		25-NOV-20	R5299112
L2532212-5 3134-AQ-SPW20-001-201114 Sampled By: Client on 14-NOV-20 @ 14:30 Matrix: Groundwater							
Anions and Nutrients							
Chloride (Cl)	47.6		0.20	mg/L		25-NOV-20	R5299112
L2532212-6 3134-AQ-SPW20-001-201115 Sampled By: Client on 15-NOV-20 @ 14:15 Matrix: Groundwater							
Anions and Nutrients							
Chloride (Cl)	47.8		0.20	mg/L		25-NOV-20	R5299112

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
CL-L-IC-N-WP	Water	Chloride in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
EC-SCREEN-WP	Water	Conductivity Screen (Internal Use Only)	APHA 2510
Qualitative analysis of conductivity where required during preparation of other test eg. IC, TDS, TSS, etc			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2532212 Report Date: 08-DEC-20

Client: Gold Canyon Resources Inc.
c/o Suite 2070, 1188 West Georgia Street
Vancouver BC V6E 4A2

Contact: Steve Lines

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-WP	Water							
Batch R5299112								
WG3451734-6 LCS								
Chloride (Cl)			98.8		%		90-110	25-NOV-20
WG3451734-5 MB								
Chloride (Cl)			<0.10		mg/L		0.1	25-NOV-20

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2532212-COFC

Number: 17 -

Report To	Contact and company name below will appear on the final report
Company:	Gold Canyon Resources Inc.
Contact:	David Mchaina
Phone:	519-241-9655
	Company address below will appear on the final report
Street:	c/o Suite 1805 - 925 West Georgia
City/Province:	Vancouver, BC
Postal Code:	V6C 3L2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1	dmchaina@firstmininggold.com
Email 2	shaun@firstmininggold.com / shila@firstmininggold
Email 3	john_ffc@nfld.net / eunjeong_ffc@nfld.net

Invoice Distribution	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	accountspayable@firstmininggold.com
Email 2	dmchaina@firstmininggold.com

Project Information	
ALS Account # / Quote #:	20864 / Q64154
Job #:	Springpole Pump Test - Chloride
PO / AFE:	
LSD:	First Mining Gold Project
ALS Lab Work Order # (lab use only):	L2532212

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact:	Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Chloride	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
-1	3134-AQ-SPW20-001-201110	10-Nov-20	15:50	Groundwater	1	X		
-2	3134-AQ-SPW20-001-201111	11-Nov-20	14:42	Groundwater	1	X		
-3	3134-AQ-SPW20-001-201112	12-Nov-20	14:07	Groundwater	1	X		
-4	3134-AQ-SPW20-001-201113	13-Nov-20	14:07	Groundwater	1	X		
-5	3134-AQ-SPW20-001-201114	14-Nov-20	14:30	Groundwater	1	X		
-6	3134-AQ-SPW20-001-201115	15-Nov-20	14:15	Groundwater	1	X		

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations Yes ☐ No ☐

Ice Packs ☑ Ice Cubes ☐ | Custody seal intact Yes ☐ No ☐

Cooling Initiated ☑

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
2.8							

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by: SFF	Date: 20/NOV/20	Time: 930

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NOV 2018 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

APPENDIX I

Aquifer Test Data from
Pumping Wells and All Observation Wells

Table I1 Recorded data during the step-drawdown test in SPW20-001 (1 of 10).

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
Static	0.00	10.349	0.000
Step1	0.25	12.794	2.445
	0.50	13.077	2.728
	0.75	13.624	3.276
	1.00	13.942	3.593
	1.25	14.178	3.829
	1.50	14.224	3.875
	1.75	14.344	3.995
	2.00	14.511	4.162
	2.25	14.530	4.182
	2.50	14.840	4.491
	2.75	15.050	4.701
	3.00	15.195	4.846
	3.25	15.444	5.096
	3.50	15.472	5.124
	3.75	15.844	5.495
	4.00	15.971	5.622
	4.25	15.739	5.390
	4.50	15.862	5.513
	4.75	15.698	5.350
	5.00	15.691	5.342
	5.25	15.703	5.354
	5.50	15.885	5.536
	5.75	15.732	5.384
	6.00	15.698	5.349
	6.25	15.861	5.512
	6.50	15.964	5.616
	6.75	15.939	5.590
	7.00	15.700	5.351
	7.25	16.048	5.699
	7.50	15.996	5.647
	7.75	16.238	5.889
	8.00	16.226	5.877
	8.25	16.200	5.851
	8.50	16.270	5.922
	8.75	16.170	5.821
	9.00	16.458	6.109
	9.25	16.446	6.097
	9.50	16.371	6.022
	9.75	16.484	6.135
	10.00	16.555	6.206
	10.25	16.535	6.186
	10.50	16.415	6.066
	10.75	16.675	6.326
	11.00	16.652	6.303
	11.25	16.909	6.560
	11.50	16.898	6.549
	11.75	16.717	6.368
	12.00	16.992	6.643
	12.25	16.860	6.512
	12.50	16.858	6.509
	12.75	17.096	6.747
	13.00	17.098	6.749
	13.25	17.128	6.779
	13.50	17.072	6.723
	13.75	17.140	6.791
	14.00	17.191	6.842
	14.25	17.115	6.766
	14.50	16.953	6.604
	14.75	17.261	6.912
	15.00	17.026	6.677
	15.25	16.970	6.621
	15.50	17.074	6.725
	15.75	16.960	6.611
	16.00	17.024	6.676
	16.25	17.025	6.676
	16.50	17.050	6.701
	16.75	16.910	6.562
	17.00	17.028	6.680
	17.25	17.065	6.716
	17.50	16.965	6.616
	17.75	17.079	6.731
	18.00	17.228	6.879
	18.25	17.336	6.987
	18.50	17.307	6.958
	18.75	17.362	7.013
	19.00	17.488	7.139
	19.25	17.294	6.945
	19.50	17.481	7.132
	19.75	14.344	3.995
	20.00	15.361	5.012
	20.25	15.116	4.767
	20.50	15.009	4.661
	20.75	14.868	4.519
	21.00	14.756	4.408
	21.25	14.634	4.285
	21.50	14.536	4.187
	21.75	14.421	4.072
	22.00	14.331	3.983
	22.25	14.244	3.896
	22.50	14.158	3.809
	22.75	14.074	3.725
	23.00	13.996	3.647
	23.25	13.921	3.573

Table I1 Recorded data during the step-drawdown test in SPW20-001 (2 of 10).

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	23.50	13.844	3.495
	23.75	13.783	3.434
	24.00	13.712	3.363
	24.25	13.655	3.306
	24.50	13.587	3.238
	24.75	13.537	3.188
	25.00	13.481	3.132
	25.25	13.427	3.078
	25.50	13.377	3.029
	25.75	13.327	2.978
	26.00	13.281	2.933
	26.25	13.233	2.884
	26.50	13.196	2.847
	26.75	13.148	2.799
	27.00	13.112	2.764
	27.25	13.068	2.719
	27.50	13.039	2.690
	27.75	13.003	2.654
	28.00	12.965	2.617
	28.25	12.937	2.588
	28.50	12.903	2.554
	28.75	12.872	2.523
	29.00	12.845	2.496
	29.25	12.820	2.471
	29.50	12.785	2.437
	29.75	12.765	2.416
	30.00	12.735	2.386
	30.25	12.714	2.365
	30.50	12.688	2.340
	30.75	12.665	2.316
	31.00	12.642	2.293
	31.25	12.617	2.268
	31.50	12.593	2.244
	31.75	12.572	2.223
	32.00	12.550	2.201
	32.25	12.526	2.177
	32.50	12.506	2.158
	32.75	12.486	2.137
	33.00	12.469	2.120
	33.25	12.449	2.100
	33.50	12.427	2.078
	33.75	12.408	2.059
	34.00	12.392	2.043
	34.25	12.374	2.025
	34.50	12.354	2.005
	34.75	12.336	1.987
	35.00	12.318	1.969

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	35.25	12.306	1.957
	35.50	12.286	1.937
	35.75	12.271	1.922
	36.00	12.255	1.906
	36.25	12.240	1.891
	36.50	12.221	1.872
	36.75	12.207	1.858
	37.00	12.191	1.843
	37.25	12.178	1.829
	37.50	12.160	1.812
	37.75	12.147	1.798
	38.00	12.129	1.781
	38.25	12.118	1.769
	38.50	12.105	1.756
	38.75	12.093	1.744
	39.00	12.078	1.730
	39.25	12.064	1.715
	39.50	12.050	1.702
	39.75	12.037	1.688
	40.00	12.022	1.673
	40.25	12.014	1.665
	40.50	11.997	1.648
	40.75	11.987	1.638
	41.00	11.977	1.629
	41.25	11.964	1.616
	41.50	11.949	1.600
	41.75	11.943	1.594
	42.00	11.927	1.579
	42.25	11.916	1.567
	42.50	11.905	1.556
	42.75	11.893	1.544
	43.00	11.883	1.534
	43.25	11.866	1.518
	43.50	11.858	1.509
	43.75	12.896	2.547
	44.00	14.647	4.298
	44.25	14.303	3.954
	44.50	14.575	4.226
	44.75	14.717	4.368
	45.00	14.906	4.557
	45.25	15.171	4.823
	45.50	15.059	4.710
	45.75	15.368	5.019
	46.00	15.666	5.317
	46.25	15.732	5.383
	46.50	15.803	5.455
	46.75	15.951	5.602

Table I1 Recorded data during the step-drawdown test in SPW20-001 (3 of 10).

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	47.00	16.019	5.670
	47.25	16.141	5.792
	47.50	16.255	5.906
	47.75	16.094	5.745
	48.00	16.217	5.868
	48.25	16.304	5.955
	48.50	16.315	5.967
	48.75	16.445	6.097
	49.00	16.476	6.127
	49.25	16.484	6.135
	49.50	16.619	6.270
	49.75	16.633	6.284
	50.00	16.890	6.541
	50.25	16.773	6.424
	50.50	16.910	6.562
	50.75	16.971	6.622
	51.00	16.991	6.642
	51.25	17.097	6.748
	51.50	17.228	6.880
	51.75	17.282	6.933
	52.00	17.300	6.952
	52.25	17.255	6.906
	52.50	17.206	6.857
	52.75	17.497	7.148
	53.00	17.342	6.993
	53.25	17.619	7.270
	53.50	17.555	7.207
	53.75	17.647	7.299
	54.00	17.685	7.336
	54.25	17.676	7.328
	54.50	17.831	7.482
	54.75	17.799	7.450
	55.00	17.904	7.555
	55.25	17.782	7.433
	55.50	17.948	7.600
	55.75	17.903	7.555
	56.00	18.020	7.672
	56.25	18.151	7.802
	56.50	18.047	7.698
	56.75	18.165	7.816
	57.00	18.116	7.767
	57.25	18.221	7.872
	57.50	18.190	7.841
	57.75	18.240	7.891
	58.00	18.353	8.004
	58.25	18.295	7.946
	58.50	18.393	8.044
	58.75	18.334	7.985
	59.00	18.295	7.946
	59.25	18.509	8.160
	59.50	18.470	8.121
	59.75	18.505	8.156
	60.00	18.574	8.226
	60.50	18.646	8.298
	61.00	18.661	8.312
	61.50	18.777	8.429
	62.00	18.811	8.462
	62.50	18.862	8.513
	63.00	18.965	8.616
	63.50	18.866	8.517
	64.00	19.055	8.706
	64.50	19.037	8.688
	65.00	19.204	8.855
	65.50	19.146	8.798
	66.00	19.207	8.858
	66.50	19.270	8.921
	67.00	19.297	8.949
	67.50	19.444	9.095
	68.00	19.404	9.055
	68.50	19.433	9.085
	69.00	19.481	9.132
	69.50	19.439	9.090
	70.00	19.607	9.258
	70.50	19.641	9.293
	71.00	19.684	9.336
	71.50	19.766	9.417
	72.00	19.724	9.375
	72.50	19.810	9.461
	73.00	19.881	9.532
	73.50	19.843	9.494
	74.00	19.875	9.527
	74.50	19.834	9.485
	75.00	19.914	9.565
	75.50	19.929	9.581
	76.00	19.943	9.594
	76.50	19.976	9.628
	77.00	20.041	9.692
	77.50	20.022	9.673
	78.00	20.037	9.688
	78.50	20.177	9.828
	79.00	20.154	9.805
	79.50	20.163	9.814
	80.00	20.244	9.896
	80.50	20.127	9.778

Table I1 Recorded data during the step-drawdown test in SPW20-001 (4 of 10).

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	81.00	20.286	9.937
	81.50	20.279	9.931
	82.00	20.340	9.991
	82.50	20.458	10.109
	83.00	20.359	10.010
	83.50	20.433	10.084
	84.00	20.438	10.089
	84.50	20.549	10.200
	85.00	20.564	10.216
	85.50	20.609	10.260
	86.00	20.655	10.307
	86.50	20.760	10.412
	87.00	20.715	10.366
	87.50	20.738	10.389
	88.00	20.606	10.257
	88.50	20.678	10.329
	89.00	20.812	10.463
	89.50	20.770	10.421
	90.00	20.847	10.498
	90.50	20.883	10.534
	91.00	20.889	10.540
	91.50	20.900	10.551
	92.00	20.995	10.646
	92.50	20.968	10.619
	93.00	20.984	10.635
	93.50	21.007	10.659
	94.00	20.998	10.650
	94.50	21.045	10.697
	95.00	21.107	10.758
	95.50	21.101	10.752
	96.00	21.189	10.840
	96.50	21.131	10.783
	97.00	21.180	10.832
	97.50	21.172	10.823
	98.00	21.255	10.906
	98.50	21.236	10.887
	99.00	21.226	10.877
	99.50	21.270	10.921
	100.00	21.338	10.989
	100.50	21.340	10.991
	101.00	21.288	10.939
	101.50	21.319	10.970
	102.00	21.383	11.034
	102.50	21.417	11.068
	103.00	21.463	11.114
	103.50	21.489	11.140
	104.00	21.470	11.121

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	104.50	21.497	11.148
	105.00	21.483	11.135
	105.50	21.591	11.242
	106.00	21.516	11.167
	106.50	21.563	11.214
	107.00	21.556	11.207
	107.50	21.466	11.117
	108.00	21.569	11.220
	108.50	21.664	11.315
	109.00	21.636	11.287
	109.50	21.685	11.336
	110.00	21.621	11.272
	110.50	21.659	11.310
	111.00	21.714	11.365
	111.50	21.729	11.380
	112.00	21.719	11.371
	112.50	21.588	11.239
	113.00	21.755	11.406
	113.50	21.803	11.454
	114.00	21.775	11.426
	114.50	21.823	11.475
	115.00	21.815	11.466
	115.50	21.829	11.480
	116.00	21.893	11.544
	116.50	21.923	11.575
	117.00	21.888	11.539
	117.50	21.914	11.565
	118.00	21.929	11.580
	118.50	21.888	11.539
	119.00	21.961	11.612
	119.50	21.933	11.585
	120.00	21.950	11.601
	120.50	21.945	11.596
	121.00	21.952	11.603
	121.50	21.983	11.634
	122.00	21.984	11.636
	122.50	22.026	11.678
	123.00	22.034	11.685
	123.50	22.012	11.663
	124.00	21.983	11.634
	124.50	21.989	11.640
	125.00	22.071	11.722
	125.50	22.067	11.718
	126.00	22.054	11.705
	126.50	22.087	11.739
	127.00	22.068	11.719
	127.50	22.112	11.764

Table I1 Recorded data during the step-drawdown test in SPW20-001 (5 of 10).

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	128.00	22.094	11.745
	128.50	22.034	11.685
	129.00	22.107	11.758
	129.50	22.099	11.751
	130.00	22.113	11.764
	130.50	22.118	11.770
	131.00	22.133	11.784
	131.50	22.126	11.777
	132.00	22.144	11.795
	132.50	22.217	11.868
	133.00	22.085	11.737
	133.50	22.207	11.858
	134.00	22.167	11.818
	134.50	22.194	11.845
	135.00	22.156	11.807
	135.50	22.187	11.838
	136.00	22.322	11.974
	136.50	22.238	11.889
	137.00	22.258	11.909
	137.50	22.238	11.889
	138.00	22.229	11.880
	138.50	22.222	11.873
	139.00	22.244	11.895
	139.50	22.262	11.913
	140.00	22.287	11.938
	140.50	22.229	11.880
	141.00	22.279	11.930
	141.50	22.287	11.938
	142.00	22.353	12.004
	142.50	22.315	11.966
	143.00	22.363	12.014
	143.50	22.296	11.947
	144.00	22.347	11.998
	144.50	22.355	12.006
	145.00	22.368	12.019
	145.50	22.372	12.024
	146.00	22.381	12.032
	146.50	22.409	12.060
	147.00	22.439	12.090
	147.50	22.454	12.105
	148.00	22.444	12.095
	148.50	22.486	12.138
	149.00	22.449	12.100
	149.50	22.436	12.087
	150.00	22.440	12.091
	150.50	22.465	12.117
	151.00	22.488	12.139

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	151.50	22.467	12.118
	152.00	22.528	12.179
	152.50	22.493	12.145
	153.00	22.538	12.189
	153.50	22.552	12.203
	154.00	22.510	12.161
	154.50	22.651	12.303
	155.00	22.517	12.168
	155.50	22.596	12.248
	156.00	22.597	12.248
	156.50	22.597	12.248
	157.00	22.659	12.310
	157.50	22.664	12.316
	158.00	22.719	12.370
	158.50	22.663	12.314
	159.00	22.675	12.327
	159.50	22.698	12.349
	160.00	22.700	12.351
	160.50	22.717	12.369
	161.00	22.712	12.363
	161.50	22.727	12.378
	162.00	22.776	12.427
	162.50	22.735	12.386
	163.00	22.788	12.439
	163.50	22.712	12.363
	164.00	22.793	12.444
	164.50	20.198	9.849
	165.00	21.094	10.745
	165.50	20.868	10.519
	166.00	20.589	10.240
	166.50	20.362	10.013
	167.00	20.164	9.815
	167.50	19.996	9.647
	168.00	19.833	9.485
	168.50	19.680	9.331
	169.00	19.531	9.183
	169.50	19.395	9.046
	170.00	19.267	8.918
	170.50	19.144	8.796
	171.00	19.029	8.680
	171.50	18.908	8.559
	172.00	18.802	8.453
	172.50	18.698	8.349
	173.00	18.604	8.255
	173.50	18.511	8.162
	174.00	18.421	8.072
	174.50	18.332	7.983

Table I1 Recorded data during the step-drawdown test in SPW20-001 (6 of 10).

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	175.00	18.247	7.898
	175.50	18.165	7.817
	176.00	18.084	7.735
	176.50	18.009	7.660
	177.00	17.930	7.581
	177.50	17.852	7.503
	178.00	17.782	7.433
	178.50	17.721	7.372
	179.00	17.653	7.304
	179.50	17.589	7.240
	180.00	17.524	7.175
	180.50	17.458	7.110
	181.00	17.398	7.049
	181.50	17.339	6.991
	182.00	17.279	6.930
	182.50	17.216	6.867
	183.00	17.164	6.815
	183.50	17.110	6.761
	184.00	17.057	6.708
	184.50	17.005	6.656
	185.00	16.950	6.601
	185.50	16.900	6.551
	186.00	16.847	6.498
	186.50	16.797	6.448
	187.00	16.753	6.404
	187.50	16.697	6.348
	188.00	16.649	6.300
	188.50	16.603	6.254
	189.00	16.560	6.211
	189.50	16.511	6.162
	190.00	16.466	6.117
	190.50	16.423	6.074
	191.00	16.375	6.027
	191.50	16.333	5.984
	192.00	16.290	5.941
	192.50	16.249	5.900
	193.00	16.202	5.854
	193.50	16.160	5.811
	194.00	16.123	5.774
	194.50	16.081	5.732
	195.00	16.037	5.689
	195.50	16.001	5.652
	196.00	15.961	5.612
	196.50	15.922	5.574
	197.00	15.885	5.536
	197.50	15.848	5.499
	198.00	15.813	5.464

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	198.50	15.771	5.422
	199.00	15.732	5.383
	199.50	15.699	5.350
	200.00	15.666	5.317
	200.50	15.628	5.279
	201.00	15.591	5.242
	201.50	15.560	5.211
	202.00	15.523	5.174
	202.50	15.487	5.138
	203.00	15.455	5.106
	203.50	15.424	5.075
	204.00	15.386	5.037
	204.50	15.354	5.005
	205.00	15.323	4.974
	205.50	15.292	4.943
	206.00	15.260	4.911
	206.50	15.228	4.879
	207.00	15.197	4.848
	207.50	15.169	4.820
	208.00	15.134	4.785
	208.50	15.107	4.758
	209.00	15.074	4.725
	209.50	15.047	4.698
	210.00	15.016	4.667
	210.50	14.990	4.641
	211.00	14.959	4.610
	211.50	14.933	4.584
	212.00	14.900	4.551
	212.50	14.873	4.525
	213.00	14.849	4.500
	213.50	14.822	4.473
	214.00	14.794	4.445
Step2	214.50	17.105	6.757
	215.00	17.109	6.760
	215.50	18.043	7.694
	216.00	19.095	8.746
	216.50	19.725	9.377
	217.00	20.151	9.802
	217.50	20.475	10.126
	218.00	20.723	10.374
	218.50	20.950	10.601
	219.00	21.118	10.769
	219.50	21.244	10.895
	220.00	21.360	11.011
	220.50	21.489	11.141
	221.00	21.550	11.201
	221.50	21.498	11.150

Table I1 Recorded data during the step-drawdown test in SPW20-001 (7 of 10).

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	222.00	21.558	11.209
	222.50	21.188	10.839
	223.00	20.889	10.541
	223.50	20.829	10.481
	224.00	20.753	10.404
	224.50	20.688	10.339
	225.00	20.612	10.263
	225.50	20.603	10.254
	226.00	20.537	10.188
	226.50	20.721	10.372
	227.00	20.658	10.309
	227.50	20.668	10.319
	228.00	20.648	10.299
	228.50	20.896	10.547
	229.00	20.883	10.534
	229.50	20.861	10.512
	230.00	20.824	10.475
	230.50	20.916	10.567
	231.00	20.958	10.609
	231.50	21.003	10.654
	232.00	20.939	10.590
	232.50	21.029	10.681
	233.00	20.258	9.909
	233.50	21.864	11.515
	234.00	22.348	12.000
	234.50	22.527	12.178
	235.00	22.607	12.258
	235.50	22.490	12.141
	236.00	22.191	11.842
	236.50	21.698	11.349
	237.00	21.362	11.014
	237.50	21.272	10.923
	238.00	21.182	10.833
	238.50	21.165	10.816
	239.00	20.974	10.625
	239.50	20.876	10.527
	240.00	20.820	10.471
	240.50	20.845	10.496
	241.00	20.832	10.483
	241.50	20.815	10.466
	242.00	20.694	10.345
	242.50	20.697	10.348
	243.00	20.715	10.366
	243.50	20.828	10.479
	244.00	20.752	10.403
	244.50	20.706	10.357
	245.00	20.727	10.378

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	245.50	20.697	10.348
	246.00	20.633	10.284
	246.50	20.700	10.352
	247.00	20.633	10.284
	247.50	20.678	10.329
	248.00	20.750	10.401
	248.50	20.685	10.336
	249.00	20.698	10.349
	249.50	20.567	10.218
	250.00	19.623	9.274
	250.50	22.035	11.686
	251.00	22.588	12.239
	251.50	22.704	12.355
	252.00	23.028	12.679
	252.50	23.186	12.838
	253.00	22.734	12.385
	253.50	21.914	11.565
	254.00	21.868	11.519
	254.50	21.584	11.235
	255.00	21.597	11.248
	255.50	21.505	11.156
	256.00	21.506	11.157
	256.50	21.287	10.939
	257.00	21.316	10.967
	257.50	21.363	11.014
	258.00	21.324	10.975
	258.50	21.444	11.095
	259.00	21.182	10.833
	259.50	21.303	10.954
	260.00	21.124	10.775
	260.50	21.207	10.858
	261.00	21.127	10.778
	261.50	21.248	10.899
	262.00	21.175	10.826
	262.50	21.294	10.945
	263.00	21.113	10.765
	263.50	21.192	10.843
	264.00	21.237	10.888
	264.50	21.118	10.769
	265.00	21.133	10.784
	265.50	21.192	10.844
	266.00	21.346	10.998
	266.50	21.203	10.855
	267.00	21.286	10.937
	267.50	21.235	10.887
	268.00	21.203	10.854
	268.50	21.105	10.756

Table I1 Recorded data during the step-drawdown test in SPW20-001 (8 of 10).

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	269.00	21.221	10.872
	269.50	21.236	10.887
	270.00	21.345	10.996
	270.50	21.186	10.837
	271.00	21.343	10.994
	271.50	21.414	11.065
	272.00	21.447	11.098
	272.50	21.199	10.850
	273.00	21.475	11.126
	273.50	21.348	10.999
	274.00	21.305	10.956
	274.50	21.424	11.075
	275.00	21.321	10.972
	275.50	21.321	10.972
	276.00	21.559	11.210
	276.50	21.472	11.123
	277.00	21.566	11.217
	277.50	21.564	11.215
	278.00	21.338	10.989
	278.50	21.394	11.045
	279.00	21.291	10.942
	279.50	21.476	11.127
	280.00	21.627	11.278
	280.50	21.486	11.138
	281.00	21.463	11.114
	281.50	21.533	11.184
	282.00	21.283	10.934
	282.50	21.569	11.220
	283.00	21.511	11.162
	283.50	21.521	11.173
	284.00	21.479	11.130
	284.50	21.405	11.056
	285.00	21.560	11.211
	285.50	21.414	11.065
	286.00	21.588	11.239
	286.50	21.629	11.280
	287.00	23.067	12.718
	287.50	23.408	13.059
	288.00	23.672	13.324
	288.50	24.148	13.799
	289.00	24.383	14.034
	289.50	24.080	13.731
	290.00	23.093	12.744
	290.50	22.398	12.049
	291.00	22.387	12.038
	291.50	22.175	11.826
	292.00	22.556	12.207

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	292.50	20.697	10.349
	293.00	20.748	10.399
	293.50	20.573	10.224
	294.00	20.360	10.012
	294.50	20.168	9.819
	295.00	19.994	9.645
	295.50	19.832	9.483
	296.00	19.686	9.337
	296.50	19.548	9.199
	297.00	19.432	9.083
	297.50	19.310	8.962
	298.00	19.197	8.848
	298.50	19.086	8.737
	299.00	18.985	8.636
	299.50	18.889	8.540
	300.00	18.793	8.444
	300.50	18.703	8.354
	301.00	18.611	8.262
	301.50	18.531	8.182
	302.00	18.450	8.101
	302.50	18.377	8.028
	303.00	18.302	7.953
	303.50	18.232	7.884
	304.00	18.160	7.811
	304.50	18.093	7.744
	305.00	18.030	7.681
	305.50	17.963	7.614
	306.00	17.901	7.552
	306.50	17.837	7.488
	307.00	17.780	7.431
	307.50	17.723	7.375
	308.00	17.670	7.321
	308.50	17.614	7.265
	309.00	17.562	7.213
	309.50	19.959	9.610
	310.00	18.651	8.302
	310.50	20.687	10.338
	311.00	21.104	10.756
	311.50	21.472	11.123
	312.00	21.755	11.406
	312.50	21.966	11.618
	313.00	22.229	11.880
	313.50	22.355	12.006
	314.00	22.529	12.180
	314.50	22.806	12.457
	315.00	22.813	12.464
	315.50	22.998	12.649

Table I1 Recorded data during the step-drawdown test in SPW20-001 (9 of 10).

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	316.00	23.085	12.737
	316.50	23.189	12.840
	317.00	23.194	12.846
	317.50	23.118	12.769
	318.00	23.064	12.716
	318.50	22.878	12.529
	319.00	22.885	12.536
	319.50	22.837	12.488
	320.00	22.766	12.417
	320.50	22.829	12.481
	321.00	22.887	12.539
	321.50	22.914	12.565
	322.00	22.885	12.536
	322.50	22.968	12.620
	323.00	22.826	12.477
	323.50	22.855	12.506
	324.00	22.951	12.602
	324.50	22.886	12.537
	325.00	22.914	12.565
	325.50	23.001	12.652
	326.00	23.022	12.673
	326.50	21.939	11.590
	327.00	23.955	13.607
	327.50	24.195	13.846
	328.00	24.517	14.168
	328.50	24.616	14.267
	329.00	24.805	14.456
	329.50	24.664	14.316
	330.00	24.131	13.782
	330.50	23.839	13.490
	331.00	23.734	13.385
	331.50	23.511	13.162
	332.00	23.438	13.090
	332.50	23.420	13.071
	333.00	23.258	12.910
	333.50	23.121	12.772
	334.00	23.224	12.875
	334.50	23.246	12.898
	335.00	23.132	12.783
	335.50	23.037	12.689
	336.00	23.031	12.682
	336.50	22.943	12.595
	337.00	22.949	12.600
	337.50	23.014	12.665
	338.00	22.844	12.495
	338.50	22.902	12.553
	339.00	22.788	12.439

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	339.50	22.771	12.423
	340.00	22.823	12.474
	340.50	22.861	12.512
	341.00	22.927	12.578
	341.50	22.942	12.594
	342.00	22.838	12.490
	342.50	22.851	12.503
	343.00	22.840	12.491
	343.50	22.785	12.436
	344.00	22.797	12.448
	344.50	21.050	10.701
	345.00	24.488	14.139
	345.50	24.379	14.030
	346.00	24.587	14.238
	346.50	25.386	15.037
	347.00	25.038	14.690
	347.50	24.538	14.189
	348.00	24.486	14.137
	348.50	24.234	13.885
	349.00	24.027	13.678
	349.50	23.856	13.508
	350.00	23.884	13.536
	350.50	24.090	13.741
	351.00	23.886	13.537
	351.50	23.842	13.493
	352.00	23.857	13.508
	352.50	23.592	13.243
	353.00	23.957	13.608
	353.50	23.690	13.341
	354.00	21.473	11.124
	354.50	22.018	11.669
	355.00	21.732	11.383
	355.50	21.506	11.158
	356.00	21.291	10.942
	356.50	21.113	10.764
	357.00	20.940	10.591
	357.50	20.775	10.426
	358.00	20.623	10.274
	358.50	20.478	10.129
	359.00	20.342	9.993
	359.50	20.215	9.866
	360.00	20.089	9.740
	360.50	19.967	9.618
	361.00	19.852	9.503
	361.50	19.746	9.397
	362.00	19.654	9.306
	362.50	19.547	9.198

Table I1 Recorded data during the step-drawdown test in SPW20-001 (10 of 10).

Step	Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
	363.00	19.459	9.110
	363.50	19.367	9.019
	364.00	19.280	8.931
	364.50	19.197	8.848
	365.00	19.117	8.768
	365.50	19.038	8.689
	366.00	18.954	8.605
	366.50	18.877	8.528
	367.00	18.810	8.461
	367.50	18.742	8.393
	368.00	18.674	8.325
	368.50	18.606	8.257
	369.00	18.544	8.195
	369.50	18.478	8.129
	370.00	18.416	8.067
	370.50	18.356	8.007
	371.00	18.296	7.947
	371.50	18.236	7.887
	372.00	18.178	7.829
	372.50	18.124	7.775
	373.00	18.073	7.724
	373.50	18.018	7.669
	374.00	17.966	7.617
	374.50	17.913	7.564
	375.00	17.866	7.518
	375.50	17.816	7.467
	376.00	17.766	7.417
	376.50	17.712	7.364
	377.00	17.668	7.320
	377.50	17.620	7.271
	378.00	17.580	7.231
End	378.50	17.539	7.191

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (1 of 18).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
0 (Static)	10.356	0.000
0.25	11.905	1.549
0.50	13.023	2.667
0.75	11.317	0.961
1.00	13.345	2.989
1.25	13.789	3.433
1.50	14.171	3.815
1.75	14.378	4.022
2.00	14.720	4.364
2.25	14.978	4.622
2.50	15.297	4.941
2.75	15.390	5.034
3.00	15.590	5.234
3.25	15.657	5.301
3.50	15.781	5.425
3.75	16.017	5.661
4.00	16.126	5.770
4.25	16.271	5.915
4.50	16.336	5.980
4.75	16.545	6.189
5.00	16.614	6.258
5.25	16.705	6.349
5.50	16.816	6.460
5.75	16.962	6.606
6.00	16.871	6.515
6.25	16.603	6.247
6.50	16.226	5.870
6.75	16.077	5.721
7.00	16.032	5.676
7.25	15.992	5.636
7.50	15.894	5.538
7.75	15.903	5.547
8.00	15.822	5.466
8.25	15.821	5.465
8.50	15.812	5.456
8.75	15.804	5.448
9.00	15.787	5.431
9.25	15.772	5.416
9.50	15.763	5.407
9.75	15.878	5.522
10.00	15.918	5.562
10.50	15.959	5.603
11.00	16.027	5.671
11.50	16.014	5.658
12.00	16.178	5.822
12.50	16.188	5.832
13.00	16.172	5.816
13.50	16.245	5.889
14.00	16.243	5.887
14.50	16.264	5.908
15.00	16.303	5.947
15.50	16.402	6.046
16.00	16.412	6.056
16.50	16.564	6.208
17.00	16.654	6.298
17.50	16.682	6.326
18.00	16.773	6.417
18.50	16.889	6.533
19.00	16.948	6.592
19.50	17.075	6.719
20.00	17.146	6.790
20.50	17.203	6.847
21.00	17.294	6.938
21.50	17.236	6.880
22.00	17.318	6.962
22.50	17.324	6.968
23.00	17.368	7.012
23.50	17.401	7.045
24.00	17.422	7.066
24.50	17.451	7.095
25.00	17.432	7.076
25.50	17.515	7.159
26.00	17.514	7.158
26.50	17.544	7.188
27.00	17.584	7.228
27.50	17.560	7.204
28.00	17.636	7.280
28.50	17.697	7.341
29.00	17.632	7.276
29.50	17.772	7.416
30.00	17.784	7.428
31.00	17.830	7.474
32.00	17.904	7.548
33.00	17.900	7.544
34.00	18.022	7.666
35.00	18.067	7.711
36.00	18.176	7.820
37.00	18.241	7.885
38.00	18.254	7.898
39.00	18.325	7.969
40.00	18.347	7.991
41.00	18.339	7.983
42.00	18.414	8.058
43.00	18.470	8.114

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (2 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
44.00	18.498	8.142
45.00	18.585	8.229
46.00	18.644	8.288
47.00	18.678	8.322
48.00	18.712	8.356
49.00	18.768	8.412
50.00	18.847	8.491
51.00	18.859	8.503
52.00	18.885	8.529
53.00	18.892	8.536
54.00	19.015	8.659
55.00	19.046	8.690
56.00	19.121	8.765
57.00	19.146	8.790
58.00	19.208	8.852
59.00	19.249	8.893
60.00	19.242	8.886
61.00	19.286	8.930
62.00	19.436	9.080
63.00	19.422	9.066
64.00	19.493	9.137
65.00	19.519	9.163
66.00	19.536	9.180
67.00	19.587	9.231
68.00	19.659	9.303
69.00	19.649	9.293
70.00	19.791	9.435
71.00	19.760	9.404
72.00	19.818	9.462
73.00	19.859	9.503
74.00	19.907	9.551
75.00	19.959	9.603
76.00	19.996	9.640
77.00	20.031	9.675
78.00	20.007	9.651
79.00	20.116	9.760
80.00	20.141	9.785
81.00	20.167	9.811
82.00	20.131	9.775
83.00	20.159	9.803
84.00	20.212	9.856
85.00	20.287	9.931
86.00	20.345	9.989
87.00	20.295	9.939
88.00	20.411	10.055
89.00	20.440	10.084
90.00	20.456	10.100

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
95.00	20.598	10.242
100.00	20.814	10.458
105.00	20.964	10.608
110.00	21.084	10.728
115.00	21.218	10.862
120.00	21.247	10.891
125.00	21.398	11.042
130.00	21.420	11.064
135.00	21.556	11.200
140.00	21.741	11.385
145.00	21.842	11.486
150.00	21.934	11.578
155.00	21.998	11.642
160.00	22.058	11.702
165.00	22.076	11.720
170.00	22.356	12.000
175.00	22.236	11.880
180.00	22.407	12.051
185.00	22.549	12.193
190.00	22.664	12.308
195.00	22.688	12.332
200.00	22.735	12.379
205.00	22.850	12.494
210.00	22.849	12.493
215.00	22.845	12.489
220.00	22.878	12.522
225.00	22.898	12.542
230.00	23.019	12.663
235.00	23.021	12.665
240.00	23.119	12.763
245.00	23.222	12.866
250.00	23.327	12.971
255.00	23.209	12.853
260.00	23.325	12.969
265.00	23.307	12.951
270.00	23.435	13.079
275.00	23.395	13.039
280.00	23.376	13.020
285.00	23.450	13.094
290.00	23.585	13.229
295.00	23.510	13.154
300.00	23.516	13.160
305.00	23.530	13.174
310.00	23.595	13.239
315.00	23.653	13.297
320.00	23.788	13.432
325.00	23.768	13.412

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (3 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
330.00	23.819	13.463
335.00	23.776	13.420
340.00	23.837	13.481
345.00	23.976	13.620
350.00	23.919	13.563
355.00	23.945	13.589
360.00	23.866	13.510
370.00	24.008	13.652
380.00	24.005	13.649
390.00	24.142	13.786
400.00	24.141	13.785
410.00	24.132	13.776
420.00	24.172	13.816
430.00	24.146	13.790
440.00	24.173	13.817
450.00	24.221	13.865
460.00	24.252	13.896
470.00	24.291	13.935
480.00	24.379	14.023
490.00	24.329	13.973
500.00	24.336	13.980
510.00	24.530	14.174
520.00	24.467	14.111
530.00	24.535	14.179
540.00	24.587	14.231
550.00	24.622	14.266
560.00	24.609	14.253
570.00	24.716	14.360
580.00	24.584	14.228
590.00	24.602	14.246
600.00	24.618	14.262
610.00	24.673	14.317
620.00	24.715	14.359
630.00	24.744	14.388
640.00	24.703	14.347
650.00	24.718	14.362
660.00	24.779	14.423
670.00	24.668	14.312
680.00	24.812	14.456
690.00	24.845	14.489
700.00	24.761	14.405
710.00	24.716	14.360
720.00	24.787	14.431
730.00	24.869	14.513
740.00	24.863	14.507
750.00	24.910	14.554
760.00	24.885	14.529

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
770.00	24.847	14.491
780.00	24.848	14.492
790.00	24.878	14.522
800.00	24.958	14.602
810.00	24.849	14.493
820.00	24.929	14.573
830.00	24.982	14.626
840.00	24.984	14.628
850.00	25.049	14.693
860.00	25.000	14.644
870.00	25.022	14.666
880.00	25.046	14.690
890.00	25.018	14.662
900.00	25.128	14.772
910.00	25.081	14.725
920.00	25.020	14.664
930.00	25.096	14.740
940.00	25.037	14.681
950.00	25.057	14.701
960.00	25.100	14.744
970.00	25.177	14.821
980.00	25.152	14.796
990.00	25.115	14.759
1000.00	25.067	14.711
1010.00	25.137	14.781
1020.00	25.171	14.815
1030.00	25.111	14.755
1040.00	25.220	14.864
1050.00	25.203	14.847
1060.00	25.224	14.868
1070.00	25.182	14.826
1080.00	25.283	14.927
1090.00	25.234	14.878
1100.00	25.187	14.831
1110.00	25.193	14.837
1120.00	25.183	14.827
1130.00	25.319	14.963
1140.00	25.263	14.907
1150.00	25.331	14.975
1160.00	25.286	14.930
1170.00	25.260	14.904
1180.00	25.316	14.960
1190.00	25.284	14.928
1200.00	25.350	14.994
1210.00	25.261	14.905
1220.00	25.327	14.971
1230.00	25.356	15.000

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (4 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
1240.00	25.344	14.988
1250.00	25.310	14.954
1260.00	25.365	15.009
1270.00	25.400	15.044
1300.50	25.440	15.084
1330.50	25.389	15.033
1360.50	25.406	15.050
1390.50	25.437	15.081
1420.50	25.449	15.093
1450.50	25.447	15.091
1480.50	25.531	15.175
1510.50	25.450	15.094
1540.50	25.540	15.184
1570.50	25.577	15.221
1600.50	25.648	15.292
1630.50	25.514	15.158
1660.50	25.681	15.325
1690.50	25.639	15.283
1720.50	25.665	15.309
1750.50	25.660	15.304
1780.50	25.709	15.353
1810.50	25.739	15.383
1840.50	25.721	15.365
1870.50	25.738	15.382
1900.50	25.773	15.417
1930.50	25.736	15.380
1960.50	25.872	15.516
1990.50	25.847	15.491
2020.50	25.857	15.501
2050.50	25.840	15.484
2080.50	25.922	15.566
2110.50	25.882	15.526
2140.50	25.958	15.602
2170.50	25.955	15.599
2200.50	25.946	15.590
2230.50	25.929	15.573
2260.50	25.977	15.621
2290.50	26.017	15.661
2320.50	26.046	15.690
2350.50	25.976	15.620
2380.50	25.899	15.543
2410.50	25.901	15.545
2440.50	26.019	15.663
2470.50	25.957	15.601
2500.50	25.974	15.618
2530.50	26.032	15.676
2560.50	26.040	15.684

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
2590.50	26.096	15.740
2620.50	26.061	15.705
2650.50	26.101	15.745
2680.50	26.168	15.812
2710.50	26.168	15.812
2740.50	26.122	15.766
2770.50	26.098	15.742
2800.50	26.109	15.753
2830.50	26.118	15.762
2860.50	26.152	15.796
2890.50	26.140	15.784
2920.50	26.113	15.757
2950.50	26.064	15.708
2980.50	26.120	15.764
3010.50	26.104	15.748
3040.50	26.141	15.785
3070.50	26.190	15.834
3100.50	26.154	15.798
3130.50	26.103	15.747
3160.50	26.144	15.788
3190.50	26.212	15.856
3220.50	26.298	15.942
3250.50	26.253	15.897
3280.50	26.291	15.935
3310.50	26.280	15.924
3340.50	26.374	16.018
3370.50	26.311	15.955
3400.50	26.354	15.998
3430.50	26.302	15.946
3460.50	26.345	15.989
3490.50	26.427	16.071
3520.50	26.362	16.006
3550.50	26.286	15.930
3580.50	26.293	15.937
3610.50	26.387	16.031
3640.50	26.372	16.016
3670.50	26.352	15.996
3700.50	26.341	15.985
3730.50	26.381	16.025
3760.50	26.375	16.019
3790.50	26.387	16.031
3820.50	26.395	16.039
3850.50	26.402	16.046
3880.50	26.407	16.051
3910.50	26.353	15.997
3940.50	26.410	16.054
3970.50	26.507	16.151

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (5 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
4000.50	26.412	16.056
4030.50	26.420	16.064
4060.50	26.405	16.049
4090.50	26.405	16.049
4120.50	26.380	16.024
4150.50	26.413	16.057
4180.50	26.387	16.031
4210.50	26.485	16.129
4240.50	26.449	16.093
4270.50	26.458	16.102
4300.50	26.503	16.147
4330.50	26.486	16.130
4360.50	26.432	16.076
4390.50	26.561	16.205
4420.50	26.495	16.139
4450.50	26.487	16.131
4480.50	26.544	16.188
4510.50	26.494	16.138
4540.50	26.501	16.145
4570.50	26.557	16.201
4600.50	26.629	16.273
4630.50	26.594	16.238
4660.50	26.613	16.257
4690.50	26.555	16.199
4720.50	26.591	16.235
4750.50	26.621	16.265
4780.50	26.596	16.240
4810.50	26.611	16.255
4840.50	26.604	16.248
4870.50	26.618	16.262
4900.50	26.651	16.295
4930.50	26.573	16.217
4960.50	26.601	16.245
4990.50	26.691	16.335
5020.50	26.584	16.228
5050.50	26.687	16.331
5080.50	26.642	16.286
5110.50	26.596	16.240
5140.50	26.655	16.299
5170.50	26.589	16.233
5200.50	26.645	16.289
5230.50	26.668	16.312
5260.50	26.651	16.295
5290.50	26.664	16.308
5320.50	26.680	16.324
5350.50	26.708	16.352
5380.50	26.722	16.366

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
5410.50	26.739	16.383
5440.50	26.782	16.426
5470.50	26.696	16.340
5500.50	26.825	16.469
5530.50	26.754	16.398
5560.50	26.917	16.561
5590.50	26.780	16.424
5620.50	26.818	16.462
5650.50	26.789	16.433
5680.50	26.866	16.510
5710.50	26.802	16.446
5740.50	26.923	16.567
5770.50	26.913	16.557
5800.50	26.770	16.414
5830.50	26.948	16.592
5860.50	26.847	16.491
5890.50	26.870	16.514
5920.50	26.848	16.492
5950.50	26.985	16.629
5980.50	26.961	16.605
6010.50	26.965	16.609
6040.50	26.916	16.560
6070.50	26.921	16.565
6100.50	26.968	16.612
6130.50	26.931	16.575
6160.50	26.916	16.560
6190.50	26.913	16.557
6220.50	26.955	16.599
6250.50	26.903	16.547
6280.50	26.929	16.573
6310.50	26.948	16.592
6340.50	26.960	16.604
6370.50	26.921	16.565
6400.50	27.040	16.684
6430.50	27.028	16.672
6460.50	26.949	16.593
6490.50	26.958	16.602
6520.50	27.052	16.696
6550.50	27.050	16.694
6580.50	26.906	16.550
6610.50	27.031	16.675
6640.50	26.906	16.550
6670.50	27.014	16.658
6700.50	27.030	16.674
6730.50	27.027	16.671
6760.50	27.056	16.700
6790.50	27.068	16.712

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (6 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
6820.50	27.006	16.650
6850.50	26.988	16.632
6880.50	27.026	16.670
6910.50	27.006	16.650
6940.50	27.018	16.662
6970.50	27.066	16.710
7000.50	26.968	16.612
7030.50	27.019	16.663
7060.50	26.998	16.642
7090.50	27.071	16.715
7120.50	27.040	16.684
7150.50	27.028	16.672
7180.50	27.021	16.665
7210.50	27.084	16.728
7240.50	27.068	16.712
7270.50	27.057	16.701
7300.50	27.059	16.703
7330.50	27.064	16.708
7360.50	27.000	16.644
7390.50	27.021	16.665
7420.50	27.158	16.802
7450.50	27.103	16.747
7480.50	27.069	16.713
7510.50	27.064	16.708
7540.50	27.122	16.766
7570.50	27.107	16.751
7600.50	27.114	16.758
7630.50	27.084	16.728
7660.50	27.049	16.693
7690.50	27.134	16.778
7720.50	27.100	16.744
7750.50	27.103	16.747
7780.50	27.079	16.723
7810.50	27.115	16.759
7840.50	27.126	16.770
7870.50	27.154	16.798
7900.50	27.131	16.775
7930.50	27.176	16.820
7960.50	27.132	16.776
7990.50	27.129	16.773
8020.50	27.125	16.769
8050.50	27.141	16.785
8080.50	27.099	16.743
8110.50	27.107	16.751
8140.50	27.178	16.822
8170.50	27.036	16.680
8200.50	27.146	16.790
8230.50	27.158	16.802
8260.50	27.196	16.840
8290.50	27.178	16.822
8320.50	27.144	16.788
8350.50	27.153	16.797
8380.50	27.129	16.773
8410.50	27.178	16.822
8440.50	27.139	16.783
8470.50	27.166	16.810
8500.50	27.158	16.802
8530.50	27.186	16.830
8560.50	27.162	16.806
8590.50	27.189	16.833
8620.50	27.222	16.866
8650.50	27.171	16.815
8680.50	27.218	16.862
8710.50	27.186	16.830
8740.50	27.208	16.852
8770.50	27.099	16.743
8800.50	27.140	16.784
8830.50	27.195	16.839
8860.50	27.202	16.846
8890.50	27.142	16.786
8920.50	27.266	16.910
8950.50	27.271	16.915
8980.50	27.174	16.818
9010.50	27.187	16.831
9040.50	27.239	16.883
9070.50	27.162	16.806
9100.50	27.166	16.810
9130.50	27.205	16.849
9160.50	27.189	16.833
9190.50	27.175	16.819
9220.50	27.190	16.834
9250.50	27.181	16.825
9280.50	27.237	16.881
9310.50	27.228	16.872
9340.50	27.272	16.916
9370.50	27.250	16.894
9400.50	27.172	16.816
9430.50	27.221	16.865
9460.50	27.317	16.961
9490.50	27.224	16.868
9520.50	27.237	16.881
9550.50	27.220	16.864
9580.50	27.190	16.834
9610.50	27.307	16.951

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (7 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
9640.50	27.266	16.910
9670.50	27.286	16.930
9700.50	27.231	16.875
9730.50	27.235	16.879
9760.50	27.250	16.894
9790.50	27.183	16.827
9820.50	27.190	16.834
9850.50	27.168	16.812
9880.50	27.180	16.824
9910.50	27.151	16.795
9940.50	27.221	16.865
9970.50	27.246	16.890
10000.50	27.229	16.873
10030.50	27.234	16.878
10060.50	27.231	16.875
10090.50	27.240	16.884
10120.50	27.201	16.845
10150.50	27.237	16.881
10180.50	27.271	16.915
10210.50	27.233	16.877
10240.50	27.317	16.961
10270.50	27.324	16.968
10300.50	27.159	16.803
10330.50	27.226	16.870
10360.50	27.270	16.914
10390.50	27.204	16.848
10420.50	27.185	16.829
10450.50	27.239	16.883
10480.50	27.258	16.902
10510.50	27.241	16.885
10540.50	27.237	16.881
10570.50	27.288	16.932
10600.50	27.267	16.911
10630.50	27.291	16.935
10660.50	27.233	16.877
10690.50	27.245	16.889
10720.50	27.265	16.909
10750.50	27.308	16.952
10780.50	27.243	16.887
10810.50	27.322	16.966
10840.50	27.229	16.873
10870.50	27.248	16.892
10900.50	27.250	16.894
10930.50	27.324	16.968
10960.50	27.333	16.977
10990.50	27.258	16.902
11020.50	27.278	16.922

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
11050.50	27.329	16.973
11080.50	27.342	16.986
11110.50	27.224	16.868
11140.50	27.317	16.961
11170.50	27.202	16.846
11200.50	27.248	16.892
11230.50	27.317	16.961
11260.50	27.266	16.910
11290.50	27.315	16.959
11320.50	27.328	16.972
11350.50	27.287	16.931
11380.50	27.312	16.956
11410.50	27.393	17.037
11440.50	27.318	16.962
11470.50	27.244	16.888
11500.50	27.375	17.019
11530.50	27.329	16.973
11560.50	27.356	17.000
11590.50	27.337	16.981
11620.50	27.365	17.009
11650.50	27.372	17.016
11680.50	27.339	16.983
11710.50	27.394	17.038
11740.50	27.376	17.020
11770.50	27.323	16.967
11800.50	27.346	16.990
11830.50	27.330	16.974
11860.50	27.326	16.970
11890.50	27.389	17.033
11920.50	27.398	17.042
11950.50	27.384	17.028
11980.50	27.396	17.040
12010.50	27.357	17.001
12040.50	27.415	17.059
12070.50	27.375	17.019
12100.50	27.401	17.045
12130.50	27.325	16.969
12160.50	27.332	16.976
12190.50	27.386	17.030
12220.50	27.398	17.042
12250.50	27.369	17.013
12280.50	27.381	17.025
12310.50	27.429	17.073
12340.50	27.381	17.025
12370.50	27.352	16.996
12400.50	27.386	17.030
12430.50	27.403	17.047

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (8 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
12460.50	27.398	17.042
12490.50	27.409	17.053
12520.50	27.412	17.056
12550.50	27.379	17.023
12580.50	27.326	16.970
12610.50	27.360	17.004
12640.50	27.404	17.048
12670.50	27.396	17.040
12700.50	27.375	17.019
12730.50	27.374	17.018
12760.50	27.395	17.039
12790.50	27.361	17.005
12820.50	27.403	17.047
12850.50	27.378	17.022
12880.50	27.398	17.042
12910.50	28.005	17.649
12940.50	30.025	19.669
12970.50	30.482	20.126
13000.50	30.833	20.477
13030.50	29.896	19.540
13060.50	29.666	19.310
13090.50	29.594	19.238
13120.50	29.620	19.264
13150.50	29.139	18.783
13180.50	29.023	18.667
13210.50	29.019	18.663
13240.50	28.998	18.642
13270.50	28.858	18.502
13300.50	28.865	18.509
13330.50	28.863	18.507
13360.50	28.885	18.529
13390.50	28.905	18.549
13420.50	28.922	18.566
13450.50	28.863	18.507
13480.50	28.894	18.538
13510.50	28.935	18.579
13540.50	28.949	18.593
13570.50	28.926	18.570
13600.50	28.900	18.544
13630.50	28.952	18.596
13660.50	28.974	18.618
13690.50	28.987	18.631
13720.50	28.963	18.607
13750.50	28.942	18.586
13780.50	28.937	18.581
13810.50	28.879	18.523
13840.50	28.935	18.579

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
13870.50	28.864	18.508
13900.50	28.937	18.581
13930.50	28.927	18.571
13960.50	28.975	18.619
13990.50	28.938	18.582
14020.50	29.025	18.669
14050.50	29.284	18.928
14080.50	29.386	19.030
14110.50	29.443	19.087
14140.50	29.289	18.933
14170.50	29.301	18.945
14200.50	29.381	19.025
14230.50	29.441	19.085
14260.50	29.524	19.168
14290.50	29.416	19.060
14320.50	29.427	19.071
14350.50	29.511	19.155
14380.50	29.510	19.154
14410.50	29.514	19.158
14440.50	29.487	19.131
14470.50	29.456	19.100
14500.50	29.455	19.099
14530.50	29.577	19.221
14560.50	29.587	19.231
14590.50	29.503	19.147
14620.50	29.464	19.108
14650.50	29.624	19.268
14680.50	29.516	19.160
14710.50	29.440	19.084
14740.50	29.517	19.161
14770.50	29.499	19.143
14800.50	29.573	19.217
14830.50	29.521	19.165
14860.50	29.542	19.186
14890.50	29.542	19.186
14920.50	29.564	19.208
14950.50	29.505	19.149
14980.50	29.550	19.194
15010.50	29.572	19.216
15040.50	29.505	19.149
15070.50	29.424	19.068
15100.50	29.513	19.157
15130.50	29.483	19.127
15160.50	29.656	19.300
15190.50	29.522	19.166
15220.50	29.545	19.189
15250.50	29.538	19.182

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (9 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
15280.50	29.521	19.165
15310.50	29.525	19.169
15340.50	29.570	19.214
15370.50	29.505	19.149
15400.50	29.534	19.178
15430.50	29.509	19.153
15460.50	29.510	19.154
15490.50	29.511	19.155
15520.50	29.558	19.202
15550.50	29.449	19.093
15580.50	29.466	19.110
15610.50	29.442	19.086
15640.50	29.490	19.134
15670.50	29.505	19.149
15700.50	29.457	19.101
15730.50	29.522	19.166
15760.50	29.501	19.145
15790.50	29.540	19.184
15820.50	29.540	19.184
15850.50	29.568	19.212
15880.50	29.516	19.160
15910.50	29.507	19.151
15940.50	29.551	19.195
15970.50	29.513	19.157
16000.50	29.577	19.221
16030.50	29.498	19.142
16060.50	29.556	19.200
16090.50	29.431	19.075
16120.50	29.599	19.243
16150.50	29.595	19.239
16180.50	29.563	19.207
16210.50	29.636	19.280
16240.50	29.485	19.129
16270.50	29.541	19.185
16300.50	29.503	19.147
16330.50	29.597	19.241
16360.50	29.590	19.234
16390.50	29.509	19.153
16420.50	29.572	19.216
16450.50	29.542	19.186
16480.50	29.541	19.185
16510.50	29.529	19.173
16540.50	29.473	19.117
16570.50	29.504	19.148
16600.50	29.500	19.144
16630.50	29.540	19.184
16660.50	29.500	19.144

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
16690.50	29.468	19.112
16720.50	29.459	19.103
16750.50	29.517	19.161
16780.50	29.447	19.091
16810.50	29.529	19.173
16840.50	29.463	19.107
16870.50	29.483	19.127
16900.50	29.631	19.275
16930.50	29.517	19.161
16960.50	29.480	19.124
16990.50	29.496	19.140
17020.50	29.600	19.244
17050.50	29.487	19.131
17080.50	29.621	19.265
17110.50	29.597	19.241
17140.50	29.608	19.252
17170.50	29.467	19.111
17200.50	29.574	19.218
17230.50	29.433	19.077
17260.50	29.424	19.068
17290.50	29.667	19.311
17320.50	29.516	19.160
17350.50	29.416	19.060
17380.50	29.540	19.184
17410.50	29.599	19.243
17440.50	29.470	19.114
17470.50	29.348	18.992
17500.50	29.395	19.039
17530.50	29.528	19.172
17560.50	29.501	19.145
17590.50	29.525	19.169
17620.50	29.576	19.220
17650.50	29.516	19.160
17680.50	29.564	19.208
17710.50	29.477	19.121
17740.50	29.583	19.227
17770.50	29.543	19.187
17800.50	29.556	19.200
17830.50	29.618	19.262
17860.50	29.479	19.123
17890.50	29.537	19.181
17920.50	29.474	19.118
17950.50	29.437	19.081
17980.50	29.524	19.168
18010.50	29.570	19.214
18040.50	29.544	19.188
18070.50	29.478	19.122

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (10 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
18100.50	29.540	19.184
18130.50	29.464	19.108
18160.50	29.550	19.194
18190.50	29.493	19.137
18220.50	29.561	19.205
18250.50	29.879	19.523
18280.50	29.471	19.115
18310.50	29.591	19.235
18340.50	29.728	19.372
18370.50	29.751	19.395
18400.50	29.830	19.474
18430.50	29.639	19.283
18460.50	29.643	19.287
18490.50	29.725	19.369
18520.50	29.568	19.212
18550.50	29.736	19.380
18580.50	29.727	19.371
18610.50	29.709	19.353
18640.50	29.813	19.457
18670.50	29.714	19.358
18700.50	29.702	19.346
18730.50	29.637	19.281
18760.50	29.751	19.395
18790.50	29.603	19.247
18820.50	29.576	19.220
18850.50	29.777	19.421
18880.50	29.763	19.407
18910.50	29.636	19.280
18940.50	29.676	19.320
18970.50	29.842	19.486
19000.50	29.715	19.359
19030.50	29.700	19.344
19060.50	29.746	19.390
19090.50	29.829	19.473
19120.50	29.771	19.415
19150.50	29.738	19.382
19180.50	29.717	19.361
19210.50	29.662	19.306
19240.50	29.787	19.431
19270.50	29.693	19.337
19300.50	29.753	19.397
19330.50	29.859	19.503
19360.50	29.862	19.506
19390.50	29.847	19.491
19420.50	29.755	19.399
19450.50	29.703	19.347
19480.50	29.774	19.418

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
19510.50	29.763	19.407
19540.50	29.700	19.344
19570.50	29.729	19.373
19600.50	29.765	19.409
19630.50	29.951	19.595
19660.50	29.968	19.612
19690.50	29.801	19.445
19720.50	29.844	19.488
19750.50	29.824	19.468
19780.50	29.847	19.491
19810.50	29.994	19.638
19840.50	29.946	19.590
19870.50	29.951	19.595
19900.50	29.833	19.477
19930.50	29.993	19.637
19960.50	29.880	19.524
19990.50	30.101	19.745
20020.50	30.063	19.707
20050.50	29.943	19.587
20080.50	29.800	19.444
20110.50	29.862	19.506
20140.50	29.815	19.459
20170.50	30.035	19.679
20200.50	29.815	19.459
20230.50	29.769	19.413
20260.50	29.784	19.428
20290.50	29.990	19.634
20320.50	29.824	19.468
20350.50	29.781	19.425
20380.50	29.991	19.635
20410.50	29.887	19.531
20440.50	29.789	19.433
20470.50	29.887	19.531
20500.50	29.997	19.641
20530.50	30.119	19.763
20560.50	29.895	19.539
20590.50	29.924	19.568
20620.50	30.110	19.754
20650.50	30.113	19.757
20680.50	29.934	19.578
20710.50	29.947	19.591
20740.50	30.080	19.724
20770.50	30.054	19.698
20800.50	29.939	19.583
20830.50	30.006	19.650
20860.50	29.809	19.453
20890.50	29.896	19.540

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (11 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
20920.50	29.928	19.572
20950.50	29.891	19.535
20980.50	29.924	19.568
21010.50	29.995	19.639
21040.50	29.806	19.450
21070.50	29.870	19.514
21100.50	29.820	19.464
21130.50	29.841	19.485
21160.50	29.808	19.452
21190.50	30.007	19.651
21220.50	29.817	19.461
21250.50	30.020	19.664
21280.50	30.072	19.716
21310.50	29.948	19.592
21340.50	29.850	19.494
21370.50	29.992	19.636
21400.50	30.085	19.729
21430.50	29.871	19.515
21460.50	29.978	19.622
21490.50	29.945	19.589
21520.50	29.829	19.473
21550.50	30.074	19.718
21580.50	30.081	19.725
21610.50	30.017	19.661
21640.50	30.067	19.711
21670.50	30.035	19.679
21700.50	29.954	19.598
21730.50	29.958	19.602
21760.50	29.951	19.595
21790.50	29.908	19.552
21820.50	30.073	19.717
21850.50	30.121	19.765
21880.50	29.931	19.575
21910.50	29.913	19.557
21940.50	30.093	19.737
21970.50	30.070	19.714
22000.50	30.121	19.765
22030.50	30.161	19.805
22060.50	29.962	19.606
22090.50	30.087	19.731
22120.50	30.079	19.723
22150.50	30.030	19.674
22180.50	29.989	19.633
22210.50	29.993	19.637
22240.50	30.027	19.671
22270.50	30.000	19.644
22300.50	30.041	19.685

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
22330.50	30.020	19.664
22360.50	29.955	19.599
22390.50	30.005	19.649
22420.50	30.084	19.728
22450.50	29.956	19.600
22480.50	29.920	19.564
22510.50	30.087	19.731
22540.50	29.860	19.504
22570.50	29.991	19.635
22600.50	29.925	19.569
22630.50	30.068	19.712
22660.50	29.901	19.545
22690.50	29.795	19.439
22720.50	29.975	19.619
22750.50	30.091	19.735
22780.50	29.832	19.476
22810.50	30.046	19.690
22840.50	29.953	19.597
22870.50	30.187	19.831
22900.50	30.008	19.652
22930.50	29.847	19.491
22960.50	30.074	19.718
22990.50	29.972	19.616
23020.50	30.025	19.669
23050.50	30.142	19.786
23080.50	30.063	19.707
23110.50	30.096	19.740
23140.50	29.867	19.511
23170.50	29.935	19.579
23200.50	29.997	19.641
23230.50	30.068	19.712
23260.50	29.994	19.638
23290.50	30.145	19.789
23320.50	30.053	19.697
23350.50	29.961	19.605
23380.50	29.911	19.555
23410.50	29.986	19.630
23440.50	29.987	19.631
23470.50	30.054	19.698
23500.50	30.007	19.651
23530.50	29.917	19.561
23560.50	30.004	19.648
23590.50	30.013	19.657
23620.50	30.019	19.663
23650.50	30.041	19.685
23680.50	30.078	19.722
23710.50	30.059	19.703

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (12 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
23740.50	30.035	19.679
23770.50	30.055	19.699
23800.50	30.020	19.664
23830.50	30.033	19.677
23860.50	29.988	19.632
23890.50	30.065	19.709
23920.50	30.023	19.667
23950.50	30.023	19.667
23980.50	30.007	19.651
24010.50	30.002	19.646
24040.50	29.963	19.607
24070.50	29.947	19.591
24100.50	30.151	19.795
24130.50	30.139	19.783
24160.50	29.915	19.559
24190.50	30.033	19.677
24220.50	30.070	19.714
24250.50	29.902	19.546
24280.50	29.854	19.498
24310.50	30.031	19.675
24340.50	29.295	18.939
24370.50	29.503	19.147
24400.50	29.677	19.321
24430.50	29.701	19.345
24460.50	29.676	19.320
24490.50	29.660	19.304
24520.50	29.741	19.385
24550.50	29.826	19.470
24580.50	29.869	19.513
24610.50	29.739	19.383
24640.50	29.822	19.466
24670.50	29.796	19.440
24700.50	29.797	19.441
24730.50	29.743	19.387
24760.50	29.776	19.420
24790.50	29.684	19.328
24820.50	29.679	19.323
24850.50	29.856	19.500
24880.50	29.743	19.387
24910.50	29.820	19.464
24940.50	29.720	19.364
24970.50	29.728	19.372
25000.50	29.712	19.356
25030.50	29.734	19.378
25060.50	29.663	19.307
25090.50	29.933	19.577
25120.50	29.728	19.372

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
25150.50	29.763	19.407
25180.50	29.773	19.417
25210.50	29.691	19.335
25240.50	29.821	19.465
25270.50	29.828	19.472
25300.50	29.686	19.330
25330.50	29.714	19.358
25360.50	29.887	19.531
25390.50	29.638	19.282
25420.50	29.796	19.440
25450.50	29.686	19.330
25480.50	29.804	19.448
25510.50	29.831	19.475
25540.50	29.863	19.507
25570.50	29.645	19.289
25600.50	29.771	19.415
25630.50	29.777	19.421
25660.50	29.814	19.458
25690.50	29.869	19.513
25720.50	29.774	19.418
25750.50	29.714	19.358
25780.50	29.779	19.423
25810.50	29.841	19.485
25840.50	29.700	19.344
25870.50	29.820	19.464
25900.50	29.731	19.375
25930.50	29.784	19.428
25960.50	29.848	19.492
25990.50	29.787	19.431
26020.50	29.853	19.497
26050.50	29.823	19.467
26080.50	29.935	19.579
26110.50	29.892	19.536
26140.50	29.864	19.508
26170.50	29.772	19.416
26200.50	29.826	19.470
26230.50	29.942	19.586
26260.50	29.819	19.463
26290.50	29.833	19.477
26320.50	29.841	19.485
26350.50	29.842	19.486
26380.50	29.885	19.529
26410.50	29.930	19.574
26440.50	29.912	19.556
26470.50	29.887	19.531
26500.50	29.916	19.560
26530.50	29.878	19.522

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (13 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
26560.50	29.873	19.517
26590.50	29.883	19.527
26620.50	29.919	19.563
26650.50	29.920	19.564
26680.50	29.844	19.488
26710.50	29.934	19.578
26740.50	29.877	19.521
26770.50	29.888	19.532
26800.50	29.882	19.526
26830.50	29.852	19.496
26860.50	29.933	19.577
26890.50	29.976	19.620
26920.50	29.890	19.534
26950.50	29.908	19.552
26980.50	29.843	19.487
27010.50	29.969	19.613
27040.50	29.888	19.532
27070.50	29.852	19.496
27100.50	30.004	19.648
27130.50	29.939	19.583
27160.50	29.939	19.583
27190.50	29.863	19.507
27220.50	29.965	19.609
27250.50	27.175	16.819
27280.50	29.136	18.780
27310.50	29.445	19.089
27340.50	29.648	19.292
27370.50	29.612	19.256
27400.50	29.655	19.299
27426.50	29.695	19.339
27460.50	29.790	19.434
27490.50	29.775	19.419
27520.50	29.780	19.424
27550.50	29.823	19.467
27580.50	29.774	19.418
27610.50	29.778	19.422
27640.50	29.770	19.414
27670.50	29.716	19.360
27700.50	29.822	19.466
27730.50	29.856	19.500
27760.50	29.879	19.523
27790.50	29.877	19.521
27820.50	29.920	19.564
27850.50	29.869	19.513
27880.50	29.741	19.385
27910.50	29.986	19.630
27940.50	29.793	19.437

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
27970.50	29.803	19.447
28000.50	29.900	19.544
28030.50	29.851	19.495
28060.50	29.809	19.453
28090.50	29.881	19.525
28120.50	29.911	19.555
28150.50	29.890	19.534
28180.50	29.950	19.594
28210.50	29.885	19.529
28240.50	29.703	19.347
28270.50	29.792	19.436
28300.50	29.835	19.479
28330.50	29.827	19.471
28360.50	29.876	19.520
28390.50	29.801	19.445
28420.50	29.853	19.497
28450.50	29.837	19.481
28480.50	29.977	19.621
28510.50	29.770	19.414
28540.50	29.780	19.424
28570.50	29.838	19.482
28600.50	29.680	19.324
28630.50	29.908	19.552
28660.50	29.959	19.603
28690.50	29.798	19.442
28720.50	30.023	19.667
28750.50	30.070	19.714
28780.50	30.076	19.720
28810.50	30.189	19.833
28840.50	30.175	19.819
28870.50	30.216	19.860
28900.50	30.231	19.875
28930.50	30.250	19.894
28960.50	30.306	19.950
28990.50	30.229	19.873
29020.50	30.146	19.790
29050.50	30.181	19.825
29080.50	30.114	19.758
29110.50	30.208	19.852
29140.50	30.193	19.837
29170.50	30.275	19.919
29200.50	30.219	19.863
29230.50	30.229	19.873
29260.50	30.235	19.879
29290.50	30.241	19.885
29320.50	30.306	19.950
29350.50	30.230	19.874

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (14 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
29380.50	30.275	19.919
29410.50	30.248	19.892
29440.50	30.257	19.901
29470.50	30.253	19.897
29500.50	30.292	19.936
29530.50	30.304	19.948
29560.50	30.293	19.937
29590.50	30.302	19.946
29620.50	30.279	19.923
29650.50	30.323	19.967
29680.50	30.289	19.933
29710.50	30.243	19.887
29740.50	30.225	19.869
29770.50	30.285	19.929
29800.50	30.267	19.911
29830.50	30.331	19.975
29860.50	30.219	19.863
29890.50	30.302	19.946
29920.50	30.225	19.869
29950.50	30.241	19.885
29980.50	30.240	19.884
30010.50	30.281	19.925
30040.50	30.275	19.919
30070.50	30.256	19.900
30100.50	30.259	19.903
30130.50	30.188	19.832
30160.50	30.283	19.927
30190.50	30.412	20.056
30220.50	30.507	20.151
30250.50	30.502	20.146
30280.50	30.522	20.166
30310.50	30.607	20.251
30340.50	30.587	20.231
30370.50	30.593	20.237
30400.50	30.552	20.196
30430.50	30.642	20.286
30460.50	30.584	20.228
30490.50	30.601	20.245
30520.50	30.567	20.211
30550.50	30.643	20.287
30580.50	30.657	20.301
30610.50	30.620	20.264
30640.50	30.715	20.359
30670.50	30.592	20.236
30700.50	30.630	20.274
30730.50	30.618	20.262
30760.50	30.525	20.169

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
30790.50	30.620	20.264
30820.50	30.610	20.254
30850.50	30.577	20.221
30880.50	30.644	20.288
30910.50	30.687	20.331
30940.50	30.648	20.292
30970.50	30.671	20.315
31000.50	30.653	20.297
31030.50	30.662	20.306
31060.50	30.697	20.341
31090.50	30.641	20.285
31120.50	30.649	20.293
31150.50	30.628	20.272
31180.50	30.699	20.343
31210.50	30.649	20.293
31240.50	30.703	20.347
31270.50	30.645	20.289
31300.50	30.675	20.319
31330.50	30.684	20.328
31360.50	30.713	20.357
31390.50	30.740	20.384
31420.50	30.697	20.341
31450.50	30.621	20.265
31480.50	30.698	20.342
31510.50	30.654	20.298
31540.50	30.642	20.286
31570.50	29.889	19.533
31600.50	30.434	20.078
31630.50	30.419	20.063
31660.50	30.482	20.126
31690.50	30.507	20.151
31720.50	30.559	20.203
31750.50	30.499	20.143
31780.50	30.566	20.210
31810.50	30.557	20.201
31840.50	30.583	20.227
31870.50	30.548	20.192
31900.50	30.637	20.281
31930.50	30.572	20.216
31960.50	30.556	20.200
31990.50	30.508	20.152
32020.50	30.648	20.292
32050.50	30.630	20.274
32080.50	30.658	20.302
32110.50	30.581	20.225
32140.50	30.533	20.177
32170.50	30.545	20.189

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (15 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
32200.50	30.579	20.223
32230.50	30.536	20.180
32260.50	30.554	20.198
32290.50	30.591	20.235
32320.50	30.539	20.183
32350.50	30.587	20.231
32380.50	30.584	20.228
32410.50	30.554	20.198
32440.50	30.618	20.262
32470.50	30.589	20.233
32500.50	30.580	20.224
32530.50	30.623	20.267
32560.50	30.623	20.267
32590.50	30.582	20.226
32620.50	30.541	20.185
32650.50	30.638	20.282
32680.50	30.603	20.247
32710.50	30.595	20.239
32740.50	30.626	20.270
32770.50	30.575	20.219
32800.50	30.530	20.174
32830.50	30.576	20.220
32860.50	30.613	20.257
32890.50	30.557	20.201
32920.50	30.619	20.263
32950.50	30.592	20.236
32980.50	30.569	20.213
33010.50	30.653	20.297
33040.50	30.578	20.222
33070.50	30.525	20.169
33100.50	30.620	20.264
33130.50	30.609	20.253
33160.50	30.629	20.273
33190.50	30.584	20.228
33220.50	30.574	20.218
33250.50	30.562	20.206
33280.50	30.601	20.245
33310.50	30.598	20.242
33340.50	30.603	20.247
33370.50	30.667	20.311
33400.50	30.667	20.311
33430.50	30.648	20.292
33460.50	30.619	20.263
33490.50	30.561	20.205
33520.50	30.559	20.203
33550.50	30.586	20.230
33580.50	30.615	20.259
33610.50	30.617	20.261
33640.50	30.562	20.206
33670.50	30.641	20.285
33700.50	30.711	20.355
33730.50	30.699	20.343
33760.50	30.536	20.180
33790.50	30.637	20.281
33820.50	30.608	20.252
33850.50	30.641	20.285
33880.50	30.603	20.247
33910.50	30.653	20.297
33940.50	30.693	20.337
33970.50	30.657	20.301
34000.50	30.627	20.271
34030.50	30.677	20.321
34060.50	30.655	20.299
34090.50	30.655	20.299
34120.50	30.613	20.257
34150.50	30.668	20.312
34180.50	30.686	20.330
34210.50	30.571	20.215
34240.50	30.624	20.268
34270.50	30.641	20.285
34300.50	30.648	20.292
34330.50	30.589	20.233
34360.50	30.629	20.273
34390.50	30.603	20.247
34420.50	30.593	20.237
34450.50	30.603	20.247
34480.50	30.644	20.288
34510.50	30.642	20.286
34540.50	30.657	20.301
34570.50	30.736	20.380
34600.50	30.694	20.338
34630.50	30.697	20.341
34660.50	30.683	20.327
34690.50	30.663	20.307
34720.50	30.685	20.329
34750.50	30.687	20.331
34780.50	30.595	20.239
34810.50	30.606	20.250
34840.50	30.633	20.277
34870.50	30.647	20.291
34900.50	30.615	20.259
34930.50	30.659	20.303
34960.50	30.617	20.261
34990.50	30.626	20.270

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (16 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
35020.50	30.515	20.159
35050.50	30.640	20.284
35080.50	30.605	20.249
35110.50	30.619	20.263
35140.50	30.636	20.280
35170.50	30.627	20.271
35200.50	30.580	20.224
35230.50	30.589	20.233
35260.50	30.671	20.315
35290.50	30.604	20.248
35320.50	30.589	20.233
35350.50	30.615	20.259
35380.50	30.608	20.252
35410.50	30.718	20.362
35440.50	30.571	20.215
35470.50	30.592	20.236
35500.50	30.621	20.265
35530.50	30.667	20.311
35560.50	30.636	20.280
35590.50	30.606	20.250
35620.50	30.644	20.288
35650.50	30.670	20.314
35680.50	30.613	20.257
35710.50	30.638	20.282
35740.50	30.688	20.332
35770.50	30.597	20.241
35800.50	30.544	20.188
35830.50	30.618	20.262
35860.50	30.570	20.214
35890.50	30.573	20.217
35920.50	30.697	20.341
35950.50	30.589	20.233
35980.50	30.572	20.216
36010.50	30.587	20.231
36040.50	30.550	20.194
36070.50	30.634	20.278
36100.50	30.620	20.264
36130.50	30.521	20.165
36160.50	30.619	20.263
36190.50	30.521	20.165
36220.50	30.491	20.135
36250.50	30.701	20.345
36280.50	30.592	20.236
36310.50	30.603	20.247
36340.50	30.636	20.280
36370.50	30.664	20.308
36400.50	30.673	20.317

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
36430.50	30.547	20.191
36460.50	30.617	20.261
36490.50	30.567	20.211
36520.50	30.567	20.211
36550.50	30.657	20.301
36580.50	30.635	20.279
36610.50	30.578	20.222
36640.50	30.609	20.253
36670.50	30.603	20.247
36700.50	30.603	20.247
36730.50	30.552	20.196
36760.50	30.580	20.224
36790.50	30.569	20.213
36820.50	30.567	20.211
36850.50	30.614	20.258
36880.50	30.577	20.221
36910.50	30.680	20.324
36940.50	30.597	20.241
36970.50	30.624	20.268
37000.50	30.582	20.226
37030.50	30.539	20.183
37060.50	30.671	20.315
37090.50	30.676	20.320
37120.50	30.595	20.239
37150.50	30.647	20.291
37180.50	30.611	20.255
37210.50	30.656	20.300
37240.50	30.571	20.215
37270.50	30.609	20.253
37300.50	30.640	20.284
37330.50	30.595	20.239
37360.50	30.782	20.426
37390.50	30.796	20.440
37420.50	30.810	20.454
37450.50	30.775	20.419
37480.50	30.781	20.425
37510.50	30.831	20.475
37540.50	30.823	20.467
37570.50	30.720	20.364
37600.50	30.867	20.511
37630.50	30.761	20.405
37660.50	30.902	20.546
37690.50	30.933	20.577
37720.50	30.846	20.490
37750.50	30.836	20.480
37780.50	30.867	20.511
37810.50	30.800	20.444

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (17 of 18).

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
37840.50	30.896	20.540
37870.50	30.878	20.522
37900.50	30.888	20.532
37930.50	30.934	20.578
37960.50	30.833	20.477
37990.50	30.780	20.424
38020.50	30.774	20.418
38050.50	30.918	20.562
38080.50	30.834	20.478
38110.50	30.776	20.420
38140.50	30.887	20.531
38170.50	30.769	20.413
38200.50	30.817	20.461
38230.50	30.830	20.474
38260.50	30.841	20.485
38290.50	30.822	20.466
38320.50	30.788	20.432
38350.50	30.844	20.488
38380.50	30.786	20.430
38410.50	30.889	20.533
38440.50	30.814	20.458
38470.50	30.819	20.463
38500.50	30.706	20.350
38530.50	30.802	20.446
38560.50	30.846	20.490
38590.50	30.791	20.435
38620.50	30.826	20.470
38650.50	30.942	20.586
38680.50	30.875	20.519
38710.50	30.821	20.465
38740.50	30.748	20.392
38770.50	30.769	20.413
38800.50	30.760	20.404
38830.50	31.278	20.922
38860.50	31.487	21.131
38890.50	31.446	21.090
38920.50	31.568	21.212
38950.50	31.494	21.138
38980.50	31.575	21.219
39010.50	31.582	21.226
39040.50	31.564	21.208
39070.50	31.513	21.157
39100.50	31.649	21.293
39130.50	31.600	21.244
39160.50	31.586	21.230
39190.50	31.630	21.274
39220.50	31.714	21.358

Time *t (min)*	Depth *(m)*	Drawdown *dd (m)*
39250.50	31.671	21.315
39280.50	31.699	21.343
39310.50	31.568	21.212
39340.50	31.694	21.338
39370.50	31.761	21.405
39400.50	31.646	21.290
39430.50	31.580	21.224
39460.50	31.705	21.349
39490.50	31.645	21.289
39520.50	31.639	21.283
39550.50	31.695	21.339
39580.50	31.775	21.419
39610.50	31.737	21.381
39640.50	31.694	21.338
39670.50	31.718	21.362
39700.50	31.584	21.228
39730.50	31.558	21.202
39760.50	31.701	21.345
39790.50	31.795	21.439
39820.50	31.630	21.274
39850.50	31.668	21.312
39880.50	31.684	21.328
39910.50	31.665	21.309
39940.50	31.724	21.368
39970.50	31.722	21.366
40000.50	31.710	21.354
40030.50	31.763	21.407
40060.50	31.856	21.500
40090.50	31.791	21.435
40120.50	31.782	21.426
40150.50	31.732	21.376
40180.50	31.675	21.319
40210.50	31.687	21.331
40240.50	31.673	21.317
40270.50	31.720	21.364
40300.50	31.710	21.354
40330.50	31.797	21.441
40360.50	31.703	21.347
40390.50	31.732	21.376
40420.50	31.707	21.351
40450.50	31.765	21.409
40480.50	31.758	21.402
40510.50	31.713	21.357
40540.50	31.850	21.494
40570.50	31.730	21.374
40600.50	31.724	21.368
40630.50	31.739	21.383

Table I2 Recorded data during the long-term aquifer test in SPW20-001 (18 of 18).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
40660.50	31.697	21.341
40690.50	31.820	21.464
40720.50	31.697	21.341
40750.50	31.795	21.439
40780.50	31.905	21.549
40810.50	31.834	21.478
40840.50	31.800	21.444
40870.50	31.725	21.369
40900.50	31.781	21.425
40930.50	31.769	21.413
40960.50	31.785	21.429
40990.50	31.765	21.409
41020.50	31.864	21.508
41050.50	31.801	21.445
41080.50	31.709	21.353
41110.50	31.897	21.541
41140.50	31.726	21.370
41170.50	31.819	21.463
41200.50	31.677	21.321
41230.50	31.785	21.429
41260.50	31.775	21.419
41290.50	31.757	21.401
41320.50	31.700	21.344
41350.50	31.765	21.409
41380.50	31.797	21.441
41410.50	31.790	21.434
41440.50	31.789	21.433
41470.50	31.752	21.396
41500.50	31.815	21.459
41527.50	31.735	21.379

Table I3 Recovery data after the long-term aquifer test in SPW20-001 (1 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
0 (Start)	31.735	0.000
1.00	29.325	2.410
2.00	29.743	1.992
3.00	29.297	2.438
4.00	28.950	2.785
5.00	28.644	3.090
6.00	28.375	3.360
7.00	28.130	3.605
8.00	27.909	3.826
9.00	27.701	4.034
10.00	27.514	4.221
11.00	27.340	4.395
12.00	27.174	4.561
13.00	27.024	4.711
14.00	26.885	4.849
15.00	26.751	4.984
16.00	26.624	5.111
17.00	26.500	5.235
18.00	26.383	5.352
19.00	26.268	5.466
20.00	26.161	5.574
21.00	26.058	5.676
22.00	25.956	5.779
23.00	25.858	5.877
24.00	25.762	5.973
25.00	25.669	6.066
26.00	25.584	6.151
27.00	25.501	6.234
28.00	25.420	6.315
29.00	25.340	6.395
30.00	25.263	6.472
31.00	25.191	6.543
32.00	25.120	6.615
33.00	25.050	6.685
34.00	24.983	6.751
35.00	24.917	6.818
36.00	24.851	6.884
37.00	24.791	6.944
38.00	24.727	7.008
39.00	24.671	7.064
40.00	24.612	7.123
41.00	24.558	7.177
42.00	24.507	7.228
43.00	24.459	7.276
44.00	24.408	7.327
45.00	24.359	7.376
46.00	24.315	7.420

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
47.00	24.263	7.472
48.00	24.220	7.515
49.00	24.180	7.555
50.00	24.138	7.597
51.00	24.098	7.637
52.00	24.062	7.673
53.00	24.019	7.716
54.00	23.985	7.750
55.00	23.946	7.789
56.00	23.908	7.827
57.00	23.874	7.861
58.00	23.837	7.898
59.00	23.803	7.932
60.00	23.769	7.965
61.00	23.733	8.002
62.00	23.713	8.022
63.00	23.686	8.049
64.00	23.655	8.080
65.00	23.629	8.106
66.00	23.603	8.132
67.00	23.576	8.159
68.00	23.548	8.187
69.00	23.518	8.216
70.00	23.493	8.242
71.00	23.467	8.268
72.00	23.442	8.293
73.00	23.414	8.321
74.00	23.384	8.351
75.00	23.362	8.373
76.00	23.335	8.400
77.00	23.311	8.424
78.00	23.289	8.446
79.00	23.264	8.471
80.00	23.236	8.499
81.00	23.213	8.522
82.00	23.191	8.544
83.00	23.170	8.565
84.00	23.147	8.588
85.00	23.123	8.611
86.00	23.100	8.635
87.00	23.079	8.655
88.00	23.059	8.676
89.00	23.039	8.696
90.00	23.022	8.713
91.00	22.998	8.737
92.00	22.980	8.755
93.00	22.960	8.774

Table I3 Recovery data after the long-term aquifer test in SPW20-001 (2 of 4).

Time (min)	Depth (m)	Recovery (m)
94.00	22.936	8.798
95.00	22.918	8.817
96.00	22.903	8.832
97.00	22.883	8.852
98.00	22.864	8.871
99.00	22.840	8.894
100.00	22.827	8.908
105.00	22.734	9.001
110.00	22.658	9.077
115.00	22.580	9.155
120.00	22.502	9.233
125.00	22.432	9.303
130.00	22.359	9.376
135.00	22.295	9.440
140.00	22.228	9.507
145.00	22.166	9.569
150.00	22.108	9.627
155.00	22.055	9.680
160.00	21.993	9.742
165.00	21.945	9.790
170.00	21.886	9.849
175.00	21.832	9.903
180.00	21.784	9.951
185.00	21.732	10.003
190.00	21.683	10.052
195.00	21.637	10.098
200.00	21.594	10.141
205.00	21.545	10.190
210.00	21.503	10.231
215.00	21.458	10.277
220.00	21.418	10.317
225.00	21.378	10.357
230.00	21.336	10.399
235.00	21.295	10.440
240.00	21.255	10.480
245.00	21.217	10.518
250.00	21.178	10.556
255.00	21.140	10.595
260.00	21.106	10.629
265.00	21.068	10.667
270.00	21.034	10.700
275.00	20.997	10.738
280.00	20.964	10.770
285.00	20.933	10.802
290.00	20.898	10.837
295.00	20.863	10.872
300.00	20.831	10.904
305.00	20.799	10.936
310.00	20.764	10.970
315.00	20.736	10.999
320.00	20.702	11.033
325.00	20.671	11.064
330.00	20.640	11.094
335.00	20.607	11.128
340.00	20.578	11.157
345.00	20.547	11.187
350.00	20.519	11.216
355.00	20.486	11.249
360.00	20.458	11.277
365.00	20.427	11.308
370.00	20.398	11.336
375.00	20.367	11.367
380.00	20.335	11.400
385.00	20.309	11.426
390.00	20.281	11.454
395.00	20.252	11.482
400.00	20.223	11.512
405.00	20.193	11.542
410.00	20.170	11.565
415.00	20.137	11.598
420.00	20.111	11.624
425.00	20.082	11.653
430.00	20.056	11.678
435.00	20.026	11.709
440.00	20.002	11.733
445.00	19.975	11.760
450.00	19.948	11.787
455.00	19.919	11.816
460.00	19.892	11.842
465.00	19.862	11.873
470.00	19.837	11.898
475.00	19.811	11.924
480.00	19.784	11.951
485.00	19.759	11.975
490.00	19.733	12.001
495.00	19.709	12.026
500.00	19.683	12.052
505.00	19.658	12.077
510.00	19.631	12.104
515.00	19.608	12.127
520.00	19.582	12.153
525.00	19.556	12.179
530.00	19.531	12.204
535.00	19.504	12.230

Table I3 Recovery data after the long-term aquifer test in SPW20-001 (3 of 4).

Time (min)	Depth (m)	Recovery (m)
540.00	19.482	12.253
545.00	19.459	12.275
550.00	19.435	12.300
555.00	19.410	12.325
560.00	19.388	12.347
565.00	19.367	12.368
570.00	19.342	12.392
575.00	19.318	12.417
580.00	19.295	12.440
585.00	19.276	12.459
590.00	19.254	12.481
595.00	19.228	12.507
600.00	19.209	12.526
605.00	19.184	12.550
610.00	19.162	12.572
615.00	19.143	12.592
620.00	19.123	12.612
625.00	19.102	12.632
630.00	19.079	12.656
635.00	19.060	12.674
640.00	19.040	12.694
645.00	19.024	12.710
650.00	19.002	12.732
655.00	18.983	12.752
660.00	18.962	12.773
665.00	18.942	12.793
670.00	18.922	12.813
675.00	18.903	12.832
680.00	18.883	12.852
685.00	18.865	12.870
690.00	18.846	12.889
720.00	18.739	12.996
750.00	18.638	13.097
780.00	18.546	13.189
810.00	18.457	13.278
840.00	18.380	13.355
870.00	18.305	13.430
900.00	18.240	13.494
930.00	18.177	13.558
960.00	18.122	13.612
990.00	18.065	13.670
1020.00	18.011	13.724
1050.00	17.956	13.778
1080.00	17.907	13.828
1110.00	17.855	13.880
1140.00	17.809	13.926
1170.00	17.765	13.970

Time (min)	Depth (m)	Recovery (m)
1200.00	17.724	14.011
1230.00	17.687	14.048
1260.00	17.646	14.089
1290.00	17.613	14.122
1320.00	17.577	14.158
1350.00	17.545	14.190
1380.00	17.507	14.227
1410.00	17.475	14.260
1440.00	17.439	14.296
1470.00	17.406	14.329
1500.00	17.374	14.360
1530.00	17.340	14.395
1560.00	17.308	14.427
1590.00	17.277	14.458
1620.00	17.241	14.493
1650.00	17.211	14.524
1680.00	17.180	14.555
1710.00	17.153	14.582
1740.00	17.126	14.608
1770.00	17.097	14.638
1800.00	17.080	14.655
1830.00	17.053	14.681
1860.00	17.033	14.702
1890.00	17.011	14.724
1920.00	16.990	14.745
1950.00	16.970	14.765
1980.00	16.952	14.782
2010.00	16.936	14.798
2040.00	16.922	14.813
2070.00	16.905	14.830
2100.00	16.888	14.846
2130.00	16.876	14.859
2160.00	16.860	14.875
2190.00	16.843	14.891
2220.00	16.830	14.905
2250.00	16.813	14.921
2280.00	16.793	14.942
2310.00	16.777	14.957
2340.00	16.756	14.979
2370.00	16.740	14.995
2400.00	16.719	15.016
2430.00	16.700	15.035
2460.00	16.684	15.051
2490.00	16.668	15.066
2520.00	16.648	15.087
2550.00	16.633	15.101
2580.00	16.618	15.117

Table I3 Recovery data after the long-term aquifer test in SPW20-001 (4 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
2610.00	16.600	15.135
2640.00	16.587	15.148
2670.00	16.569	15.166
2700.00	16.555	15.180
2730.00	16.539	15.196
2760.00	16.530	15.205
2790.00	16.520	15.215
2820.00	16.509	15.226
2850.00	16.495	15.240
2880.00	16.482	15.253
2910.00	16.470	15.265
2940.00	16.465	15.269
2970.00	16.458	15.277
3000.00	16.442	15.293
3030.00	16.442	15.293
3060.00	16.433	15.302
3090.00	16.425	15.310
3120.00	16.419	15.316
3122.00	16.418	15.317

Table I4 Recorded data in the observation well, BL-0024, during the long-term aquifer test in the pumping well, SPW20-001 (1 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
0 (Static)	5.099	0.000
0.50	4.932	-0.167
5.50	4.930	-0.169
10.50	4.936	-0.163
15.50	4.946	-0.153
20.50	4.954	-0.145
25.50	4.965	-0.135
30.50	4.974	-0.125
35.50	4.984	-0.115
40.50	4.993	-0.107
45.50	5.003	-0.096
50.50	5.012	-0.087
55.50	5.022	-0.077
60.50	5.031	-0.068
65.50	5.042	-0.057
70.50	5.052	-0.047
75.50	5.062	-0.037
80.50	5.072	-0.028
85.50	5.081	-0.018
90.50	5.090	-0.009
95.50	5.101	0.002
100.50	5.113	0.013
105.50	5.123	0.024
110.50	5.134	0.035
115.50	5.145	0.046
120.50	5.154	0.055
125.50	5.165	0.066
130.50	5.176	0.077
135.50	5.186	0.087
140.50	5.197	0.097
145.50	5.207	0.108
150.50	5.217	0.118
155.50	5.229	0.130
160.50	5.240	0.141
165.50	5.251	0.152
170.50	5.262	0.162
175.50	5.272	0.173
180.50	5.284	0.185
185.50	5.294	0.195
190.50	5.304	0.205
195.50	5.322	0.223
200.50	5.338	0.238
205.50	5.350	0.251
210.50	5.361	0.262
215.50	5.372	0.273
220.50	5.384	0.285
225.50	5.394	0.295

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
230.50	5.405	0.306
235.50	5.415	0.316
240.50	5.426	0.327
245.50	5.437	0.338
250.50	5.448	0.349
255.50	5.459	0.360
260.50	5.470	0.371
265.50	5.480	0.381
270.50	5.491	0.392
275.50	5.499	0.400
280.50	5.510	0.411
285.50	5.519	0.420
290.50	5.536	0.436
295.50	5.547	0.448
300.50	5.558	0.459
305.50	5.567	0.468
310.50	5.578	0.479
315.50	5.588	0.489
320.50	5.599	0.500
325.50	5.609	0.509
330.50	5.618	0.519
335.50	5.626	0.527
340.50	5.634	0.535
345.50	5.643	0.544
350.50	5.651	0.552
355.50	5.658	0.559
360.50	5.666	0.567
365.50	5.673	0.573
370.50	5.680	0.581
375.50	5.687	0.588
380.50	5.694	0.595
385.50	5.700	0.601
390.50	5.708	0.609
395.50	5.715	0.616
400.50	5.723	0.624
405.50	5.729	0.630
410.50	5.735	0.636
415.50	5.742	0.642
420.50	5.747	0.648
425.50	5.753	0.654
430.50	5.759	0.660
435.50	5.765	0.666
440.50	5.771	0.672
445.50	5.776	0.677
450.50	5.782	0.683
455.50	5.788	0.689
460.50	5.793	0.694

Table I4 Recorded data in the observation well, BL-0024, during the long-term aquifer test in the pumping well, SPW20-001 (2 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
465.50	5.799	0.700
470.50	5.805	0.706
475.50	5.810	0.711
480.50	5.816	0.716
485.50	5.820	0.721
490.50	5.825	0.725
495.50	5.830	0.730
500.50	5.835	0.735
505.50	5.839	0.740
510.50	5.844	0.745
515.50	5.850	0.751
520.50	5.855	0.755
525.50	5.864	0.765
530.50	5.884	0.785
535.50	5.896	0.797
540.50	5.904	0.805
545.50	5.910	0.811
550.50	5.916	0.816
555.50	5.919	0.820
560.50	5.924	0.824
565.50	5.928	0.829
570.50	5.931	0.832
575.50	5.935	0.836
580.50	5.940	0.841
585.50	5.944	0.844
590.50	5.949	0.849
595.50	5.953	0.854
600.50	5.958	0.858
605.50	5.962	0.862
610.50	5.966	0.867
615.50	5.970	0.871
620.50	5.975	0.875
625.50	5.978	0.879
630.50	5.982	0.883
635.50	5.986	0.887
640.50	5.990	0.891
645.50	5.993	0.894
650.50	5.996	0.897
655.50	5.999	0.900
660.50	6.003	0.904
665.50	6.005	0.906
670.50	6.009	0.910
675.50	6.012	0.913
680.50	6.016	0.917
685.50	6.019	0.920
690.50	6.022	0.923
695.50	6.026	0.926

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
700.50	6.029	0.930
705.50	6.031	0.932
710.50	6.034	0.934
715.50	6.035	0.936
720.50	6.038	0.938
725.50	6.040	0.941
730.50	6.042	0.943
735.50	6.044	0.945
740.50	6.047	0.948
745.50	6.049	0.950
750.50	6.052	0.952
755.50	6.054	0.955
760.50	6.056	0.957
765.50	6.059	0.960
770.50	6.062	0.963
775.50	6.065	0.966
780.50	6.068	0.969
785.50	6.071	0.972
790.50	6.075	0.975
795.50	6.077	0.978
800.50	6.080	0.981
805.50	6.084	0.984
810.50	6.087	0.988
815.50	6.089	0.990
820.50	6.092	0.993
825.50	6.094	0.995
830.50	6.097	0.997
835.50	6.099	1.000
840.50	6.103	1.004
845.50	6.105	1.006
850.50	6.108	1.009
855.50	6.110	1.011
860.50	6.113	1.014
865.50	6.116	1.017
870.50	6.118	1.018
875.50	6.120	1.021
880.50	6.123	1.024
885.50	6.125	1.026
890.50	6.127	1.028
895.50	6.130	1.031
900.50	6.132	1.033
905.50	6.134	1.035
910.50	6.137	1.038
915.50	6.140	1.041
920.50	6.142	1.043
925.50	6.145	1.046
930.50	6.147	1.048

Table I4 Recorded data in the observation well, BL-0024, during the long-term aquifer test in the pumping well, SPW20-001 (3 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
935.50	6.150	1.050
940.50	6.152	1.053
945.50	6.154	1.055
950.50	6.157	1.057
955.50	6.159	1.060
960.50	6.161	1.062
965.50	6.164	1.064
970.50	6.166	1.067
975.50	6.168	1.069
980.50	6.172	1.073
985.50	6.174	1.075
990.50	6.177	1.078
995.50	6.180	1.081
1000.50	6.183	1.084
1005.50	6.186	1.087
1010.50	6.188	1.088
1015.50	6.190	1.091
1020.50	6.193	1.094
1025.50	6.195	1.096
1030.50	6.197	1.098
1035.50	6.200	1.100
1040.50	6.202	1.103
1045.50	6.204	1.105
1050.50	6.206	1.107
1055.50	6.209	1.109
1060.50	6.211	1.112
1065.50	6.214	1.115
1070.50	6.216	1.116
1075.50	6.218	1.119
1080.50	6.221	1.122
1085.50	6.227	1.128
1090.50	6.231	1.131
1095.50	6.234	1.134
1100.50	6.236	1.136
1105.50	6.236	1.137
1110.50	6.240	1.141
1115.50	6.242	1.143
1120.50	6.244	1.145
1125.50	6.247	1.147
1130.50	6.249	1.149
1135.50	6.251	1.152
1140.50	6.253	1.154
1145.50	6.255	1.156
1150.50	6.257	1.158
1155.50	6.259	1.160
1160.50	6.261	1.161
1165.50	6.263	1.163

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
1170.50	6.265	1.166
1175.50	6.266	1.167
1180.50	6.269	1.169
1185.50	6.269	1.170
1190.50	6.272	1.173
1195.50	6.274	1.175
1200.50	6.276	1.177
1205.50	6.277	1.178
1210.50	6.280	1.181
1215.50	6.281	1.182
1220.50	6.284	1.185
1225.50	6.285	1.186
1230.50	6.287	1.187
1235.50	6.287	1.187
1240.50	6.287	1.188
1245.50	6.289	1.190
1250.50	6.291	1.191
1255.50	6.292	1.193
1260.50	6.295	1.196
1265.50	6.296	1.196
1270.50	6.297	1.197
1275.50	6.299	1.200
1280.50	6.302	1.202
1285.50	6.303	1.204
1290.50	6.305	1.205
1295.50	6.306	1.207
1300.50	6.308	1.209
1305.50	6.310	1.211
1310.50	6.312	1.213
1315.50	6.317	1.218
1320.50	6.322	1.222
1325.50	6.324	1.224
1330.50	6.326	1.227
1335.50	6.330	1.231
1340.50	6.334	1.234
1345.50	6.336	1.236
1350.50	6.337	1.238
1355.50	6.338	1.239
1360.50	6.339	1.240
1365.50	6.338	1.239
1370.50	6.338	1.239
1375.50	6.340	1.241
1380.50	6.342	1.243
1385.50	6.344	1.245
1390.50	6.345	1.246
1395.50	6.345	1.246
1400.50	6.346	1.247

Table I4 Recorded data in the observation well, BL-0024, during the long-term aquifer test in the pumping well, SPW20-001 (4 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
1405.50	6.345	1.246
1410.50	6.346	1.246
1415.50	6.346	1.247
1420.50	6.346	1.247
1425.50	6.346	1.246
1430.50	6.346	1.247
1435.50	6.339	1.240
1440.50	6.339	1.240
1470.50	6.343	1.244
1500.50	6.347	1.247
1530.50	6.351	1.252
1560.50	6.356	1.257
1590.50	6.362	1.263
1620.50	6.368	1.268
1650.50	6.375	1.276
1680.50	6.381	1.282
1710.50	6.390	1.291
1740.50	6.400	1.300
1770.50	6.408	1.308
1800.50	6.416	1.317
1830.50	6.422	1.323
1860.50	6.436	1.337
1890.50	6.446	1.347
1920.50	6.452	1.353
1950.50	6.458	1.358
1980.50	6.463	1.364
2010.50	6.468	1.369
2040.50	6.472	1.373
2070.50	6.476	1.376
2100.50	6.479	1.379
2130.50	6.481	1.381
2160.50	6.482	1.383
2190.50	6.485	1.386
2220.50	6.488	1.389
2250.50	6.490	1.391
2280.50	6.494	1.395
2310.50	6.496	1.397
2340.50	6.498	1.399
2370.50	6.500	1.401
2400.50	6.503	1.404
2430.50	6.506	1.407
2460.50	6.510	1.411
2490.50	6.514	1.414
2520.50	6.519	1.419
2550.50	6.525	1.426
2580.50	6.531	1.431
2610.50	6.534	1.435
2640.50	6.539	1.440
2670.50	6.544	1.444
2700.50	6.547	1.448
2730.50	6.551	1.452
2760.50	6.555	1.456
2790.50	6.558	1.459
2820.50	6.563	1.464
2850.50	6.567	1.468
2880.50	6.571	1.472
2910.50	6.574	1.474
2940.50	6.577	1.477
2970.50	6.578	1.479
3000.50	6.580	1.481
3030.50	6.583	1.484
3060.50	6.585	1.486
3090.50	6.587	1.488
3120.50	6.593	1.494
3150.50	6.597	1.498
3180.50	6.601	1.502
3210.50	6.607	1.507
3240.50	6.613	1.514
3270.50	6.620	1.521
3300.50	6.624	1.525
3330.50	6.629	1.530
3360.50	6.633	1.534
3390.50	6.638	1.539
3420.50	6.647	1.547
3480.50	6.661	1.562
3540.50	6.664	1.564
3600.50	6.664	1.565
3660.50	6.665	1.566
3720.50	6.665	1.566
3780.50	6.666	1.566
3840.50	6.667	1.568
3900.50	6.672	1.572
3960.50	6.677	1.578
4020.50	6.685	1.586
4080.50	6.694	1.595
4140.50	6.703	1.603
4200.50	6.709	1.609
4260.50	6.716	1.617
4320.50	6.721	1.622
4380.50	6.726	1.627
4440.50	6.731	1.632
4500.50	6.736	1.637
4560.50	6.741	1.642
4620.50	6.754	1.655

Table I4 Recorded data in the observation well, BL-0024, during the long-term aquifer test in the pumping well, SPW20-001 (5 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
4680.50	6.758	1.659
4740.50	6.764	1.664
4800.50	6.775	1.675
4860.50	6.782	1.683
4920.50	6.787	1.688
4980.50	6.791	1.692
5040.50	6.799	1.700
5100.50	6.801	1.702
5160.50	6.801	1.702
5220.50	6.802	1.703
5280.50	6.805	1.705
5340.50	6.805	1.706
5400.50	6.803	1.704
5460.50	6.807	1.708
5520.50	6.815	1.716
5580.50	6.822	1.723
5640.50	6.827	1.728
5700.50	6.835	1.736
5760.50	6.843	1.744
5820.50	6.850	1.751
5880.50	6.853	1.754
5940.50	6.857	1.757
6000.50	6.862	1.762
6060.50	6.867	1.768
6120.50	6.872	1.773
6180.50	6.915	1.816
6240.50	6.934	1.835
6300.50	6.937	1.838
6360.50	6.943	1.844
6420.50	6.945	1.846
6480.50	6.949	1.850
6540.50	6.952	1.853
6600.50	6.974	1.875
6660.50	6.978	1.878
6720.50	6.979	1.880
6780.50	6.980	1.880
6840.50	6.979	1.880
6900.50	6.979	1.880
6960.50	6.978	1.879
7020.50	6.979	1.879
7080.50	6.978	1.879
7140.50	6.983	1.883
7200.50	6.988	1.889
7260.50	6.994	1.894
7320.50	7.000	1.901
7380.50	7.006	1.906
7440.50	7.011	1.912

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
7500.50	7.018	1.919
7560.50	7.023	1.924
7620.50	7.027	1.927
7680.50	7.028	1.929
7740.50	7.030	1.931
7800.50	7.034	1.935
7860.50	7.038	1.939
7920.50	7.045	1.946
7980.50	7.050	1.951
8040.50	7.053	1.954
8100.50	7.055	1.956
8160.50	7.058	1.959
8220.50	7.060	1.961
8280.50	7.058	1.959
8340.50	7.057	1.958
8400.50	7.057	1.958
8460.50	7.060	1.960
8520.50	7.061	1.962
8580.50	7.064	1.965
8640.50	7.066	1.967
8700.50	7.073	1.974
8760.50	7.081	1.981
8820.50	7.087	1.988
8880.50	7.096	1.996
8940.50	7.101	2.002
9000.50	7.104	2.005
9060.50	7.108	2.009
9120.50	7.108	2.009
9180.50	7.107	2.008
9240.50	7.109	2.010
9300.50	7.111	2.012
9360.50	7.115	2.016
9420.50	7.118	2.019
9480.50	7.122	2.023
9540.50	7.125	2.025
9600.50	7.127	2.028
9660.50	7.131	2.032
9720.50	7.128	2.029
9780.50	7.128	2.029
9840.50	7.126	2.027
9900.50	7.124	2.025
9960.50	7.119	2.020
10020.50	7.125	2.026
10080.50	7.126	2.027
10140.50	7.131	2.032
10200.50	7.137	2.038
10260.50	7.149	2.050

Table I4 Recorded data in the observation well, BL-0024, during the long-term aquifer test in the pumping well, SPW20-001 (6 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
10320.50	7.154	2.054
10380.50	7.159	2.060
10440.50	7.159	2.060
10500.50	7.160	2.061
10560.50	7.160	2.061
10620.50	7.159	2.060
10680.50	7.161	2.062
10740.50	7.162	2.063
10800.50	7.167	2.068
10860.50	7.172	2.073
10920.50	7.176	2.077
10980.50	7.181	2.081
11040.50	7.186	2.086
11100.50	7.186	2.087
11160.50	7.186	2.087
11220.50	7.184	2.084
11280.50	7.181	2.081
11340.50	7.177	2.078
11400.50	7.175	2.075
11460.50	7.189	2.090
11520.50	7.195	2.095
11580.50	7.199	2.100
11640.50	7.211	2.112
11700.50	7.240	2.140
11760.50	7.243	2.144
11820.50	7.248	2.149
11880.50	7.247	2.148
11940.50	7.246	2.147
12000.50	7.242	2.143
12060.50	7.240	2.141
12120.50	7.234	2.134
12180.50	7.230	2.130
12240.50	7.232	2.133
12300.50	7.230	2.131
12360.50	7.234	2.135
12420.50	7.241	2.142
12480.50	7.253	2.154
12540.50	7.259	2.159
12600.50	7.258	2.159
12660.50	7.258	2.159
12720.50	7.262	2.163
12780.50	7.268	2.169
12840.50	7.267	2.168
12900.50	7.272	2.173
12960.50	7.293	2.194
13020.50	7.387	2.288
13080.50	7.449	2.350

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
13140.50	7.487	2.388
13200.50	7.501	2.401
13260.50	7.508	2.409
13320.50	7.511	2.412
13380.50	7.514	2.415
13440.50	7.515	2.416
13500.50	7.515	2.416
13560.50	7.516	2.417
13620.50	7.519	2.419
13680.50	7.525	2.426
13740.50	7.534	2.435
13800.50	7.546	2.446
13860.50	7.556	2.457
13920.50	7.567	2.468
13980.50	7.580	2.480
14040.50	7.583	2.484
14100.50	7.602	2.503
14160.50	7.618	2.519
14220.50	7.631	2.532
14280.50	7.642	2.543
14340.50	7.646	2.547
14400.50	7.655	2.555
14460.50	7.665	2.565
14520.50	7.678	2.579
14580.50	7.693	2.593
14640.50	7.706	2.607
14700.50	7.730	2.631
14760.50	7.744	2.645
14820.50	7.749	2.650
14880.50	7.752	2.652
14940.50	7.751	2.651
15000.50	7.750	2.651
15060.50	7.748	2.649
15120.50	7.750	2.650
15180.50	7.761	2.661
15240.50	7.769	2.670
15300.50	7.778	2.679
15360.50	7.792	2.693
15420.50	7.803	2.704
15480.50	7.809	2.710
15540.50	7.813	2.713
15600.50	7.809	2.710
15660.50	7.818	2.719
15720.50	7.816	2.717
15780.50	7.816	2.717
15840.50	7.817	2.718
15900.50	7.822	2.723

Table I4 Recorded data in the observation well, BL-0024, during the long-term aquifer test in the pumping well, SPW20-001 (7 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
15960.50	7.830	2.731
16020.50	7.841	2.742
16080.50	7.852	2.752
16140.50	7.860	2.761
16200.50	7.868	2.768
16260.50	7.871	2.771
16320.50	7.873	2.774
16380.50	7.871	2.772
16440.50	7.872	2.773
16500.50	7.867	2.768
16560.50	7.864	2.765
16620.50	7.864	2.765
16680.50	7.870	2.771
16740.50	7.879	2.779
16800.50	7.891	2.792
16860.50	7.909	2.810
16920.50	7.919	2.819
16980.50	7.923	2.824
17040.50	7.925	2.826
17100.50	7.923	2.824
17160.50	7.920	2.821
17220.50	7.917	2.818
17280.50	7.915	2.816
17340.50	7.913	2.814
17400.50	7.916	2.817
17460.50	7.921	2.821
17520.50	7.926	2.827
17580.50	7.932	2.833
17640.50	7.933	2.833
17700.50	7.932	2.833
17760.50	7.929	2.830
17820.50	7.920	2.820
17880.50	7.912	2.813
17940.50	7.902	2.803
18000.50	7.897	2.798
18060.50	7.914	2.815
18120.50	7.914	2.815
18180.50	7.914	2.814
18240.50	7.914	2.814
18300.50	7.922	2.822
18360.50	7.945	2.846
18420.50	7.968	2.869
18480.50	7.981	2.882
18540.50	7.988	2.889
18600.50	7.990	2.891
18660.50	7.991	2.892
18720.50	7.995	2.896

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
18780.50	8.012	2.913
18840.50	8.044	2.945
18900.50	8.057	2.958
18960.50	8.077	2.978
19020.50	8.094	2.995
19080.50	8.109	3.010
19140.50	8.125	3.026
19200.50	8.132	3.033
19260.50	8.132	3.033
19320.50	8.133	3.034
19380.50	8.137	3.038
19440.50	8.147	3.048
19500.50	8.147	3.048
19560.50	8.149	3.050
19620.50	8.151	3.052
19680.50	8.164	3.065
19740.50	8.180	3.081
19800.50	8.196	3.096
19860.50	8.210	3.111
19920.50	8.216	3.117
19980.50	8.218	3.119
20040.50	8.218	3.119
20100.50	8.217	3.118
20160.50	8.212	3.113
20220.50	8.212	3.113
20280.50	8.212	3.113
20340.50	8.214	3.115
20400.50	8.223	3.124
20460.50	8.233	3.134
20520.50	8.235	3.136
20580.50	8.238	3.139
20640.50	8.257	3.158
20700.50	8.261	3.162
20760.50	8.259	3.160
20820.50	8.255	3.156
20880.50	8.279	3.179
20940.50	8.278	3.179
21000.50	8.281	3.182
21060.50	8.286	3.187
21120.50	8.293	3.194
21180.50	8.304	3.205
21240.50	8.315	3.216
21300.50	8.325	3.226
21360.50	8.330	3.231
21420.50	8.331	3.232
21480.50	8.334	3.234
21540.50	8.334	3.234

Table I4 Recorded data in the observation well, BL-0024, during the long-term aquifer test in the pumping well, SPW20-001 (8 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
21600.50	8.332	3.233
21660.50	8.331	3.232
21720.50	8.332	3.233
21780.50	8.334	3.235
21840.50	8.336	3.237
21900.50	8.340	3.241
21960.50	8.345	3.246
22020.50	8.350	3.251
22080.50	8.353	3.254
22140.50	8.351	3.252
22200.50	8.351	3.252
22260.50	8.346	3.246
22320.50	8.340	3.241
22380.50	8.335	3.236
22440.50	8.329	3.230
22500.50	8.328	3.229
22560.50	8.332	3.233
22620.50	8.340	3.241
22680.50	8.350	3.251
22740.50	8.355	3.255
22800.50	8.362	3.263
22860.50	8.369	3.270
22920.50	8.370	3.271
22980.50	8.369	3.269
23040.50	8.367	3.268
23100.50	8.370	3.270
23160.50	8.375	3.275
23220.50	8.380	3.281
23280.50	8.384	3.285
23340.50	8.391	3.292
23400.50	8.399	3.299
23460.50	8.405	3.306
23520.50	8.412	3.312
23580.50	8.414	3.315
23640.50	8.414	3.315
23700.50	8.419	3.320
23760.50	8.417	3.318
23820.50	8.414	3.315
23880.50	8.423	3.323
23940.50	8.426	3.327
24000.50	8.430	3.331
24060.50	8.441	3.341
24120.50	8.456	3.357
24180.50	8.464	3.364
24240.50	8.467	3.367
24300.50	8.466	3.367
24360.50	8.451	3.351
24420.50	8.444	3.345
24480.50	8.442	3.343
24540.50	8.446	3.346
24600.50	8.450	3.351
24660.50	8.454	3.355
24720.50	8.458	3.359
24780.50	8.466	3.367
24840.50	8.475	3.376
24900.50	8.482	3.382
24960.50	8.491	3.391
25020.50	8.496	3.397
25080.50	8.500	3.401
25140.50	8.501	3.402
25200.50	8.502	3.403
25260.50	8.498	3.399
25320.50	8.496	3.397
25380.50	8.495	3.396
25440.50	8.495	3.396
25500.50	8.499	3.400
25560.50	8.502	3.403
25620.50	8.506	3.406
25680.50	8.507	3.408
25740.50	8.510	3.411
25800.50	8.515	3.416
25860.50	8.519	3.419
25920.50	8.519	3.420
25980.50	8.515	3.416
26040.50	8.515	3.416
26100.50	8.518	3.419
26160.50	8.522	3.423
26220.50	8.529	3.429
26280.50	8.532	3.433
26340.50	8.537	3.438
26400.50	8.541	3.442
26460.50	8.543	3.444
26520.50	8.548	3.449
26580.50	8.553	3.454
26640.50	8.558	3.459
26700.50	8.560	3.461
26760.50	8.561	3.462
26820.50	8.560	3.461
26880.50	8.561	3.462
26940.50	8.566	3.467
27000.50	8.570	3.470
27060.50	8.572	3.472
27120.50	8.573	3.474
27180.50	8.578	3.479

Table I4 Recorded data in the observation well, BL-0024, during the long-term aquifer test in the pumping well, SPW20-001 (9 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
27240.50	8.578	3.479
27300.50	8.525	3.426
27360.50	8.533	3.434
27420.50	8.548	3.449
27480.50	8.561	3.461
27540.50	8.571	3.472
27600.50	8.580	3.481
27660.50	8.586	3.487
27720.50	8.593	3.493
27780.50	8.599	3.500
27840.50	8.606	3.506
27900.50	8.611	3.512
27960.50	8.616	3.517
28020.50	8.619	3.520
28080.50	8.621	3.522
28140.50	8.624	3.525
28200.50	8.623	3.524
28260.50	8.621	3.522
28320.50	8.620	3.521
28380.50	8.620	3.520
28440.50	8.622	3.523
28500.50	8.622	3.523
28560.50	8.625	3.526
28620.50	8.627	3.528
28680.50	8.630	3.531
28740.50	8.633	3.534
28800.50	8.645	3.546
28860.50	8.655	3.556
28920.50	8.663	3.564
28980.50	8.671	3.571
29040.50	8.675	3.576
29100.50	8.678	3.579
29160.50	8.684	3.585
29220.50	8.689	3.589
29280.50	8.690	3.591
29340.50	8.696	3.596
29400.50	8.701	3.601
29460.50	8.706	3.607
29520.50	8.714	3.615
29580.50	8.721	3.622
29640.50	8.726	3.627
29700.50	8.729	3.630
29760.50	8.730	3.631
29820.50	8.730	3.631
29880.50	8.730	3.630
29940.50	8.731	3.632
30000.50	8.746	3.647

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
30060.50	8.747	3.647
30120.50	8.750	3.650
30180.50	8.754	3.655
30240.50	8.763	3.664
30300.50	8.773	3.674
30360.50	8.783	3.684
30420.50	8.791	3.692
30480.50	8.797	3.697
30540.50	8.800	3.701
30600.50	8.805	3.706
30660.50	8.807	3.708
30720.50	8.813	3.713
30780.50	8.816	3.717
30840.50	8.821	3.722
30900.50	8.828	3.728
30960.50	8.833	3.733
31020.50	8.840	3.741
31080.50	8.844	3.745
31140.50	8.846	3.747
31200.50	8.846	3.747
31260.50	8.849	3.750
31320.50	8.845	3.746
31380.50	8.843	3.744
31440.50	8.844	3.745
31500.50	8.846	3.747
31560.50	8.851	3.752
31620.50	8.838	3.739
31680.50	8.845	3.746
31740.50	8.855	3.756
31800.50	8.863	3.764
31860.50	8.871	3.772
31920.50	8.878	3.779
31980.50	8.884	3.785
32040.50	8.887	3.788
32100.50	8.887	3.788
32160.50	8.889	3.790
32220.50	8.892	3.793
32280.50	8.895	3.796
32340.50	8.900	3.801
32400.50	8.906	3.807
32460.50	8.914	3.814
32520.50	8.922	3.822
32580.50	8.926	3.827
32640.50	8.929	3.830
32700.50	8.930	3.831
32760.50	8.929	3.830
32820.50	8.927	3.828

Table I4 Recorded data in the observation well, BL-0024, during the long-term aquifer test in the pumping well, SPW20-001 (10 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
32880.50	8.925	3.826
32940.50	8.922	3.823
33000.50	8.924	3.825
33060.50	8.926	3.827
33120.50	8.930	3.831
33180.50	8.934	3.834
33240.50	8.939	3.840
33300.50	8.944	3.845
33360.50	8.954	3.854
33420.50	8.960	3.861
33480.50	8.960	3.861
33540.50	8.962	3.862
33600.50	8.958	3.859
33660.50	8.959	3.860
33720.50	8.959	3.860
33780.50	8.959	3.860
33840.50	8.962	3.863
33900.50	8.969	3.870
33960.50	8.978	3.879
34020.50	8.986	3.887
34080.50	8.991	3.892
34140.50	8.997	3.897
34200.50	8.999	3.900
34260.50	8.999	3.900
34320.50	8.998	3.899
34380.50	8.994	3.895
34440.50	8.992	3.893
34500.50	8.992	3.893
34560.50	8.994	3.895
34620.50	8.999	3.899
34680.50	9.007	3.907
34740.50	9.015	3.916
34800.50	9.019	3.920
34860.50	9.023	3.923
34920.50	9.023	3.924
34980.50	9.021	3.922
35040.50	9.017	3.918
35100.50	9.012	3.913
35160.50	9.008	3.909
35220.50	9.008	3.908
35280.50	9.011	3.912
35340.50	9.017	3.918
35400.50	9.023	3.924
35460.50	9.033	3.934
35520.50	9.042	3.942
35580.50	9.048	3.948
35640.50	9.050	3.951

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
35700.50	9.052	3.953
35760.50	9.050	3.951
35820.50	9.046	3.947
35880.50	9.040	3.940
35940.50	9.042	3.943
36000.50	9.047	3.947
36060.50	9.054	3.955
36120.50	9.064	3.964
36180.50	9.073	3.974
36240.50	9.080	3.981
36300.50	9.086	3.987
36360.50	9.089	3.990
36420.50	9.090	3.991
36480.50	9.085	3.986
36540.50	9.079	3.980
36600.50	9.073	3.974
36660.50	9.070	3.971
36720.50	9.069	3.970
36780.50	9.072	3.973
36840.50	9.077	3.978
36900.50	9.084	3.985
36960.50	9.092	3.993
37020.50	9.099	4.000
37080.50	9.105	4.005
37140.50	9.108	4.009
37200.50	9.107	4.008
37260.50	9.102	4.003
37320.50	9.098	3.999
37380.50	9.097	3.998
37440.50	9.100	4.001
37500.50	9.110	4.011
37560.50	9.118	4.019
37620.50	9.126	4.027
37680.50	9.138	4.039
37740.50	9.147	4.047
37800.50	9.153	4.054
37860.50	9.156	4.057
37920.50	9.154	4.055
37980.50	9.149	4.050
38040.50	9.144	4.045
38100.50	9.139	4.039
38160.50	9.136	4.037
38220.50	9.136	4.037
38280.50	9.139	4.040
38340.50	9.145	4.046
38400.50	9.154	4.055
38460.50	9.164	4.064

Table I4 Recorded data in the observation well, BL-0024, during the long-term aquifer test in the pumping well, SPW20-001 (11 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
38520.50	9.173	4.074
38580.50	9.177	4.078
38640.50	9.179	4.080
38700.50	9.180	4.081
38760.50	9.176	4.077
38820.50	9.174	4.075
38880.50	9.182	4.083
38940.50	9.200	4.101
39000.50	9.218	4.119
39060.50	9.235	4.136
39120.50	9.251	4.152
39180.50	9.267	4.168
39240.50	9.279	4.180
39300.50	9.286	4.186
39360.50	9.289	4.189
39420.50	9.288	4.189
39480.50	9.286	4.187
39540.50	9.285	4.186
39600.50	9.281	4.182
39660.50	9.281	4.181
39720.50	9.285	4.186
39780.50	9.294	4.195
39840.50	9.304	4.205
39900.50	9.316	4.216
39960.50	9.328	4.229
40020.50	9.379	4.280
40080.50	9.398	4.299
40140.50	9.403	4.304
40200.50	9.403	4.304
40260.50	9.404	4.305
40320.50	9.403	4.303
40380.50	9.404	4.304
40440.50	9.409	4.310
40500.50	9.414	4.315
40560.50	9.422	4.323
40620.50	9.433	4.333
40680.50	9.442	4.342
40740.50	9.449	4.349
40800.50	9.453	4.354
40860.50	9.454	4.355
40920.50	9.451	4.352
40980.50	9.447	4.348
41040.50	9.442	4.343
41100.50	9.437	4.337
41160.50	9.437	4.338
41220.50	9.441	4.342
41280.50	9.448	4.349
41340.50	9.458	4.358
41400.50	9.465	4.366
41460.50	9.476	4.376

Table I5 Recovery data in the observation well, BL-0024, after the long-term aquifer test in the pumping well, SPW20-001 (1 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
0 (Start)	9.476	0.000
2.00	9.477	-0.001
7.00	9.477	-0.001
12.00	9.479	-0.003
17.00	9.478	-0.003
22.00	9.479	-0.003
27.00	9.480	-0.004
32.00	9.481	-0.005
37.00	9.482	-0.006
42.00	9.482	-0.007
47.00	9.483	-0.007
52.00	9.484	-0.008
57.00	9.485	-0.010
62.00	9.487	-0.011
67.00	9.487	-0.011
72.00	9.484	-0.009
77.00	9.479	-0.004
82.00	9.472	0.004
87.00	9.462	0.014
92.00	9.453	0.023
97.00	9.440	0.035
102.00	9.425	0.051
107.00	9.410	0.066
112.00	9.394	0.081
117.00	9.379	0.097
122.00	9.362	0.114
127.00	9.345	0.131
132.00	9.327	0.148
137.00	9.311	0.165
142.00	9.294	0.182
147.00	9.277	0.199
152.00	9.259	0.217
157.00	9.244	0.232
162.00	9.227	0.249
167.00	9.213	0.263
172.00	9.198	0.278
177.00	9.183	0.293
182.00	9.168	0.308
187.00	9.152	0.323
192.00	9.138	0.338
197.00	9.123	0.353
202.00	9.111	0.365
207.00	9.095	0.381
212.00	9.080	0.395
217.00	9.067	0.409
222.00	9.053	0.423
227.00	9.038	0.437
232.00	9.025	0.451
237.00	9.011	0.464
242.00	8.997	0.478
247.00	8.984	0.491
252.00	8.972	0.504
257.00	8.961	0.515
262.00	8.948	0.528
267.00	8.934	0.541
272.00	8.921	0.554
277.00	8.909	0.567
282.00	8.898	0.578
287.00	8.885	0.591
292.00	8.873	0.602
297.00	8.862	0.614
302.00	8.850	0.625
307.00	8.841	0.635
312.00	8.829	0.646
317.00	8.819	0.657
322.00	8.808	0.668
327.00	8.797	0.679
332.00	8.787	0.689
337.00	8.777	0.698
342.00	8.766	0.709
347.00	8.757	0.719
352.00	8.747	0.728
357.00	8.738	0.737
362.00	8.728	0.747
367.00	8.718	0.758
372.00	8.708	0.768
377.00	8.699	0.777
382.00	8.689	0.786
387.00	8.680	0.796
392.00	8.670	0.805
397.00	8.662	0.814
402.00	8.652	0.824
407.00	8.643	0.833
412.00	8.634	0.841
417.00	8.626	0.850
422.00	8.617	0.859
427.00	8.609	0.867
432.00	8.600	0.875
437.00	8.592	0.883
442.00	8.585	0.891
447.00	8.578	0.898
452.00	8.571	0.905
457.00	8.563	0.913
462.00	8.555	0.921

Table I5 Recovery data in the observation well, BL-0024, after the long-term aquifer test in the pumping well, SPW20-001 (2 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
467.00	8.547	0.928
472.00	8.540	0.935
477.00	8.533	0.943
482.00	8.526	0.950
487.00	8.519	0.957
492.00	8.510	0.965
497.00	8.503	0.973
502.00	8.496	0.980
507.00	8.489	0.987
512.00	8.482	0.993
517.00	8.476	0.999
522.00	8.469	1.006
527.00	8.462	1.013
532.00	8.457	1.019
537.00	8.449	1.027
542.00	8.443	1.033
547.00	8.437	1.039
552.00	8.429	1.047
557.00	8.423	1.052
562.00	8.417	1.059
567.00	8.410	1.066
572.00	8.404	1.072
577.00	8.397	1.078
582.00	8.390	1.086
587.00	8.384	1.092
592.00	8.378	1.097
597.00	8.371	1.105
602.00	8.365	1.110
607.00	8.359	1.116
612.00	8.353	1.123
617.00	8.347	1.128
622.00	8.341	1.134
627.00	8.335	1.141
632.00	8.329	1.147
637.00	8.323	1.153
642.00	8.317	1.159
647.00	8.312	1.164
652.00	8.305	1.171
657.00	8.299	1.176
662.00	8.294	1.182
667.00	8.288	1.188
672.00	8.283	1.193
677.00	8.278	1.198
682.00	8.272	1.204
687.00	8.266	1.210
692.00	8.261	1.215
697.00	8.255	1.221

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
702.00	8.249	1.227
707.00	8.244	1.231
712.00	8.238	1.238
717.00	8.233	1.242
722.00	8.228	1.248
727.00	8.223	1.253
732.00	8.217	1.259
737.00	8.211	1.265
742.00	8.205	1.270
747.00	8.201	1.275
752.00	8.195	1.281
757.00	8.189	1.287
762.00	8.184	1.292
767.00	8.179	1.297
772.00	8.174	1.302
777.00	8.168	1.308
782.00	8.163	1.312
787.00	8.158	1.318
792.00	8.154	1.322
797.00	8.149	1.327
802.00	8.144	1.332
807.00	8.139	1.337
812.00	8.134	1.341
817.00	8.129	1.346
822.00	8.124	1.352
827.00	8.119	1.357
832.00	8.113	1.362
837.00	8.107	1.369
842.00	8.102	1.374
847.00	8.096	1.380
852.00	8.090	1.386
857.00	8.085	1.391
862.00	8.079	1.397
867.00	8.073	1.403
872.00	8.067	1.408
877.00	8.062	1.414
882.00	8.056	1.419
887.00	8.050	1.426
892.00	8.045	1.430
897.00	8.040	1.435
902.00	8.035	1.440
907.00	8.031	1.444
912.00	8.026	1.450
917.00	8.021	1.455
922.00	8.016	1.460
927.00	8.010	1.465
932.00	8.004	1.471

Table I5 Recovery data in the observation well, BL-0024, after the long-term aquifer test in the pumping well, SPW20-001 (3 of 4).

Time (min)	Depth (m)	Recovery (m)
937.00	7.999	1.477
942.00	7.994	1.482
947.00	7.989	1.487
952.00	7.985	1.491
957.00	7.979	1.497
962.00	7.973	1.502
967.00	7.968	1.507
972.00	7.963	1.512
977.00	7.958	1.518
982.00	7.953	1.523
987.00	7.949	1.526
992.00	7.944	1.531
997.00	7.939	1.536
1002.00	7.935	1.541
1007.00	7.932	1.544
1012.00	7.928	1.548
1017.00	7.924	1.552
1022.00	7.920	1.556
1027.00	7.915	1.560
1032.00	7.912	1.564
1037.00	7.907	1.569
1042.00	7.903	1.572
1047.00	7.899	1.577
1052.00	7.894	1.581
1057.00	7.889	1.586
1062.00	7.886	1.590
1067.00	7.881	1.594
1072.00	7.877	1.599
1077.00	7.873	1.603
1082.00	7.869	1.607
1087.00	7.865	1.611
1092.00	7.861	1.614
1097.00	7.857	1.618
1102.00	7.854	1.621
1107.00	7.850	1.626
1112.00	7.846	1.630
1117.00	7.843	1.633
1122.00	7.840	1.636
1127.00	7.837	1.639
1132.00	7.833	1.642
1137.00	7.830	1.646
1142.00	7.827	1.648
1147.00	7.825	1.651
1152.00	7.821	1.654
1157.00	7.819	1.657
1162.00	7.815	1.660
1167.00	7.812	1.663
1172.00	7.810	1.666
1177.00	7.807	1.668
1182.00	7.805	1.671
1187.00	7.803	1.673
1192.00	7.801	1.675
1197.00	7.799	1.677
1202.00	7.797	1.679
1207.00	7.793	1.683
1212.00	7.790	1.686
1217.00	7.788	1.687
1222.00	7.787	1.689
1227.00	7.783	1.693
1232.00	7.780	1.695
1237.00	7.777	1.698
1242.00	7.775	1.701
1247.00	7.773	1.703
1252.00	7.769	1.706
1257.00	7.768	1.708
1262.00	7.765	1.711
1267.00	7.762	1.713
1272.00	7.760	1.716
1277.00	7.756	1.719
1282.00	7.754	1.721
1287.00	7.752	1.724
1292.00	7.749	1.727
1297.00	7.748	1.728
1302.00	7.745	1.731
1307.00	7.742	1.733
1312.00	7.740	1.736
1317.00	7.737	1.738
1322.00	7.736	1.740
1327.00	7.733	1.743
1332.00	7.731	1.745
1337.00	7.727	1.748
1342.00	7.726	1.750
1347.00	7.724	1.752
1352.00	7.721	1.755
1357.00	7.718	1.758
1362.00	7.716	1.760
1367.00	7.714	1.762
1372.00	7.711	1.764
1377.00	7.709	1.767
1382.00	7.706	1.769
1387.00	7.704	1.772
1392.00	7.702	1.774
1397.00	7.700	1.776
1402.00	7.697	1.778

Table I5 Recovery data in the observation well, BL-0024, after the long-term aquifer test in the pumping well, SPW20-001 (4 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
1407.00	7.696	1.779
1412.00	7.693	1.782
1417.00	7.692	1.784
1422.00	7.690	1.786
1427.00	7.688	1.788
1432.00	7.686	1.790
1437.00	7.683	1.792
1467.00	7.672	1.803
1497.00	7.661	1.815
1527.00	7.651	1.824
1557.00	7.641	1.835
1587.00	7.629	1.847
1617.00	7.617	1.858
1647.00	7.603	1.872
1677.00	7.591	1.884
1707.00	7.580	1.895
1737.00	7.567	1.909
1767.00	7.553	1.922
1797.00	7.538	1.938
1827.00	7.523	1.953
1857.00	7.512	1.964
1887.00	7.500	1.976
1917.00	7.489	1.987
1947.00	7.480	1.996
1977.00	7.469	2.006
2007.00	7.460	2.016
2037.00	7.451	2.024
2067.00	7.444	2.031
2097.00	7.436	2.039
2127.00	7.430	2.046
2157.00	7.422	2.054
2187.00	7.414	2.062
2217.00	7.407	2.069
2247.00	7.398	2.078
2277.00	7.387	2.088
2307.00	7.379	2.097
2337.00	7.367	2.108
2367.00	7.358	2.117
2397.00	7.346	2.130
2427.00	7.334	2.142
2457.00	7.323	2.153
2487.00	7.312	2.164
2517.00	7.303	2.173
2547.00	7.290	2.185
2577.00	7.282	2.194
2607.00	7.273	2.202
2637.00	7.264	2.211
2667.00	7.254	2.221
2697.00	7.246	2.230
2727.00	7.241	2.235
2757.00	7.232	2.244
2787.00	7.223	2.252
2817.00	7.216	2.260
2847.00	7.211	2.265
2877.00	7.204	2.271
2907.00	7.198	2.278
2937.00	7.191	2.285
2967.00	7.184	2.291
2997.00	7.177	2.298
3027.00	7.169	2.306
3057.00	7.162	2.314
3087.00	7.157	2.319
3117.00	7.153	2.322
3137.00	7.150	2.326

Table I6 Recorded data in the observation well, BL-0098, during the long-term aquifer test in the pumping well, SPW20-001 (1 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
0 (Static)	5.561	0.000
0.50	5.359	-0.202
5.50	5.356	-0.205
10.50	5.356	-0.205
15.50	5.357	-0.204
20.50	5.358	-0.203
25.50	5.360	-0.201
30.50	5.363	-0.198
35.50	5.367	-0.194
40.50	5.372	-0.189
45.50	5.378	-0.183
50.50	5.384	-0.177
55.50	5.391	-0.170
60.50	5.396	-0.165
65.50	5.405	-0.156
70.50	5.412	-0.149
75.50	5.421	-0.140
80.50	5.430	-0.131
85.50	5.439	-0.121
90.50	5.449	-0.112
95.50	5.458	-0.103
100.50	5.470	-0.091
105.50	5.480	-0.081
110.50	5.489	-0.072
115.50	5.498	-0.063
120.50	5.512	-0.049
125.50	5.523	-0.038
130.50	5.534	-0.027
135.50	5.544	-0.017
140.50	5.555	-0.006
145.50	5.567	0.007
150.50	5.580	0.019
155.50	5.592	0.031
160.50	5.604	0.043
165.50	5.616	0.055
170.50	5.628	0.067
175.50	5.641	0.080
180.50	5.654	0.093
185.50	5.666	0.105
190.50	5.678	0.118
195.50	5.691	0.130
200.50	5.707	0.146
205.50	5.723	0.162
210.50	5.740	0.179
215.50	5.754	0.194
220.50	5.770	0.209
225.50	5.785	0.224
230.50	5.800	0.239
235.50	5.815	0.254
240.50	5.829	0.269
245.50	5.845	0.284
250.50	5.861	0.300
255.50	5.875	0.315
260.50	5.894	0.333
265.50	5.912	0.351
270.50	5.929	0.368
275.50	5.946	0.385
280.50	5.964	0.403
285.50	5.982	0.421
290.50	5.999	0.438
295.50	6.018	0.457
300.50	6.037	0.476
305.50	6.055	0.494
310.50	6.074	0.513
315.50	6.092	0.531
320.50	6.112	0.551
325.50	6.132	0.571
330.50	6.152	0.591
335.50	6.176	0.615
340.50	6.197	0.637
345.50	6.219	0.658
350.50	6.242	0.681
355.50	6.262	0.701
360.50	6.284	0.723
365.50	6.307	0.746
370.50	6.328	0.767
375.50	6.352	0.791
380.50	6.374	0.813
385.50	6.400	0.839
390.50	6.425	0.864
395.50	6.449	0.889
400.50	6.473	0.912
405.50	6.497	0.936
410.50	6.520	0.959
415.50	6.543	0.982
420.50	6.564	1.004
425.50	6.588	1.027
430.50	6.607	1.046
435.50	6.630	1.069
440.50	6.651	1.090
445.50	6.672	1.111
450.50	6.692	1.132
455.50	6.714	1.153
460.50	6.734	1.173

Table I6 Recorded data in the observation well, BL-0098, during the long-term aquifer test in the pumping well, SPW20-001 (2 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
465.50	6.754	1.193
470.50	6.776	1.216
475.50	6.797	1.236
480.50	6.817	1.256
485.50	6.838	1.277
490.50	6.856	1.296
495.50	6.877	1.316
500.50	6.897	1.336
505.50	6.916	1.355
510.50	6.935	1.374
515.50	6.953	1.392
520.50	6.973	1.413
525.50	6.991	1.431
530.50	7.011	1.450
535.50	7.030	1.469
540.50	7.047	1.487
545.50	7.066	1.505
550.50	7.084	1.523
555.50	7.101	1.540
560.50	7.119	1.558
565.50	7.137	1.576
570.50	7.153	1.593
575.50	7.171	1.611
580.50	7.189	1.628
585.50	7.205	1.644
590.50	7.222	1.661
595.50	7.239	1.678
600.50	7.255	1.695
605.50	7.272	1.711
610.50	7.288	1.727
615.50	7.304	1.743
620.50	7.320	1.759
625.50	7.334	1.773
630.50	7.351	1.790
635.50	7.366	1.805
640.50	7.382	1.821
645.50	7.396	1.835
650.50	7.411	1.850
655.50	7.426	1.865
660.50	7.439	1.879
665.50	7.454	1.893
670.50	7.468	1.907
675.50	7.482	1.921
680.50	7.497	1.936
685.50	7.511	1.950
690.50	7.524	1.963
695.50	7.537	1.977

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
700.50	7.550	1.989
705.50	7.563	2.002
710.50	7.575	2.014
715.50	7.588	2.027
720.50	7.600	2.039
725.50	7.613	2.052
730.50	7.625	2.065
735.50	7.637	2.076
740.50	7.649	2.088
745.50	7.660	2.099
750.50	7.671	2.110
755.50	7.683	2.122
760.50	7.694	2.133
765.50	7.705	2.144
770.50	7.716	2.155
775.50	7.726	2.165
780.50	7.738	2.177
785.50	7.748	2.187
790.50	7.757	2.197
795.50	7.768	2.207
800.50	7.777	2.217
805.50	7.787	2.226
810.50	7.799	2.238
815.50	7.808	2.247
820.50	7.818	2.257
825.50	7.828	2.267
830.50	7.837	2.276
835.50	7.847	2.286
840.50	7.856	2.295
845.50	7.866	2.305
850.50	7.876	2.315
855.50	7.884	2.323
860.50	7.894	2.333
865.50	7.903	2.342
870.50	7.913	2.352
875.50	7.922	2.361
880.50	7.931	2.370
885.50	7.940	2.379
890.50	7.949	2.388
895.50	7.958	2.398
900.50	7.967	2.406
905.50	7.975	2.414
910.50	7.984	2.423
915.50	7.992	2.431
920.50	8.001	2.440
925.50	8.010	2.449
930.50	8.019	2.458

Table I6 Recorded data in the observation well, BL-0098, during the long-term aquifer test in the pumping well, SPW20-001 (3 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
935.50	8.027	2.466
940.50	8.034	2.473
945.50	8.043	2.482
950.50	8.051	2.490
955.50	8.058	2.498
960.50	8.067	2.506
965.50	8.075	2.514
970.50	8.083	2.522
975.50	8.091	2.530
980.50	8.099	2.538
985.50	8.107	2.546
990.50	8.115	2.554
995.50	8.123	2.562
1000.50	8.130	2.569
1005.50	8.138	2.577
1010.50	8.145	2.584
1015.50	8.154	2.593
1020.50	8.161	2.600
1025.50	8.169	2.608
1030.50	8.177	2.616
1035.50	8.184	2.624
1040.50	8.192	2.632
1045.50	8.199	2.638
1050.50	8.207	2.646
1055.50	8.214	2.653
1060.50	8.222	2.661
1065.50	8.230	2.669
1070.50	8.237	2.676
1075.50	8.244	2.683
1080.50	8.252	2.691
1085.50	8.259	2.698
1090.50	8.266	2.706
1095.50	8.273	2.712
1100.50	8.280	2.719
1105.50	8.286	2.725
1110.50	8.293	2.732
1115.50	8.301	2.740
1120.50	8.307	2.746
1125.50	8.314	2.753
1130.50	8.321	2.760
1135.50	8.328	2.767
1140.50	8.335	2.774
1145.50	8.341	2.780
1150.50	8.348	2.787
1155.50	8.354	2.793
1160.50	8.361	2.800
1165.50	8.367	2.806

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
1170.50	8.373	2.812
1175.50	8.379	2.818
1180.50	8.386	2.825
1185.50	8.391	2.830
1190.50	8.399	2.838
1195.50	8.404	2.843
1200.50	8.410	2.849
1205.50	8.415	2.854
1210.50	8.422	2.862
1215.50	8.428	2.867
1220.50	8.434	2.873
1225.50	8.440	2.879
1230.50	8.445	2.884
1235.50	8.451	2.890
1240.50	8.457	2.896
1245.50	8.461	2.900
1250.50	8.467	2.906
1255.50	8.473	2.913
1260.50	8.479	2.918
1265.50	8.483	2.923
1270.50	8.489	2.928
1275.50	8.495	2.934
1280.50	8.501	2.940
1285.50	8.506	2.945
1290.50	8.512	2.951
1295.50	8.515	2.954
1300.50	8.521	2.960
1305.50	8.525	2.964
1310.50	8.532	2.971
1315.50	8.536	2.975
1320.50	8.542	2.981
1325.50	8.547	2.986
1330.50	8.549	2.988
1335.50	8.556	2.995
1340.50	8.561	3.000
1345.50	8.565	3.004
1350.50	8.570	3.009
1355.50	8.574	3.013
1360.50	8.579	3.018
1365.50	8.583	3.022
1370.50	8.588	3.028
1375.50	8.593	3.032
1380.50	8.596	3.036
1385.50	8.601	3.040
1390.50	8.604	3.043
1395.50	8.609	3.048
1400.50	8.612	3.051

Table I6 Recorded data in the observation well, BL-0098, during the long-term aquifer test in the pumping well, SPW20-001 (4 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
1405.50	8.617	3.056
1410.50	8.619	3.058
1415.50	8.622	3.061
1420.50	8.624	3.064
1425.50	8.628	3.067
1430.50	8.631	3.070
1435.50	8.635	3.074
1440.50	8.638	3.077
1470.50	8.658	3.097
1500.50	8.677	3.116
1530.50	8.695	3.135
1560.50	8.712	3.151
1590.50	8.728	3.167
1620.50	8.746	3.185
1650.50	8.762	3.201
1680.50	8.779	3.218
1710.50	8.797	3.236
1740.50	8.814	3.253
1770.50	8.831	3.270
1800.50	8.849	3.288
1830.50	8.867	3.306
1860.50	8.885	3.324
1890.50	8.903	3.342
1920.50	8.922	3.361
1950.50	8.939	3.378
1980.50	8.956	3.395
2010.50	8.970	3.409
2040.50	8.984	3.423
2070.50	8.997	3.436
2100.50	9.007	3.446
2130.50	9.017	3.456
2160.50	9.024	3.463
2190.50	9.032	3.471
2220.50	9.039	3.479
2250.50	9.045	3.484
2280.50	9.052	3.491
2310.50	9.059	3.498
2340.50	9.064	3.503
2370.50	9.070	3.509
2400.50	9.076	3.516
2430.50	9.082	3.521
2460.50	9.089	3.528
2490.50	9.096	3.535
2520.50	9.104	3.543
2550.50	9.113	3.552
2580.50	9.121	3.560
2610.50	9.131	3.570

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
2640.50	9.139	3.578
2670.50	9.149	3.589
2700.50	9.159	3.599
2730.50	9.169	3.608
2760.50	9.181	3.620
2790.50	9.191	3.630
2820.50	9.200	3.639
2850.50	9.210	3.650
2880.50	9.221	3.660
2910.50	9.228	3.668
2940.50	9.238	3.677
2970.50	9.246	3.686
3000.50	9.253	3.692
3030.50	9.261	3.700
3060.50	9.268	3.707
3090.50	9.275	3.714
3120.50	9.283	3.722
3150.50	9.291	3.730
3180.50	9.299	3.738
3210.50	9.309	3.748
3240.50	9.318	3.757
3270.50	9.328	3.767
3300.50	9.339	3.778
3330.50	9.349	3.788
3360.50	9.359	3.798
3390.50	9.371	3.810
3420.50	9.381	3.821
3480.50	9.400	3.839
3540.50	9.416	3.855
3600.50	9.429	3.868
3660.50	9.439	3.878
3720.50	9.448	3.887
3780.50	9.456	3.895
3840.50	9.463	3.902
3900.50	9.473	3.912
3960.50	9.481	3.920
4020.50	9.495	3.934
4080.50	9.508	3.947
4140.50	9.523	3.962
4200.50	9.540	3.979
4260.50	9.557	3.997
4320.50	9.573	4.012
4380.50	9.588	4.027
4440.50	9.604	4.043
4500.50	9.620	4.059
4560.50	9.635	4.074
4620.50	9.651	4.090

Table I6 Recorded data in the observation well, BL-0098, during the long-term aquifer test in the pumping well, SPW20-001 (5 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
4680.50	9.667	4.106
4740.50	9.684	4.123
4800.50	9.701	4.140
4860.50	9.718	4.157
4920.50	9.733	4.172
4980.50	9.748	4.187
5040.50	9.761	4.200
5100.50	9.771	4.211
5160.50	9.780	4.219
5220.50	9.783	4.222
5280.50	9.786	4.226
5340.50	9.790	4.229
5400.50	9.791	4.230
5460.50	9.794	4.233
5520.50	9.798	4.237
5580.50	9.804	4.243
5640.50	9.813	4.252
5700.50	9.828	4.267
5760.50	9.846	4.285
5820.50	9.864	4.303
5880.50	9.877	4.316
5940.50	9.895	4.334
6000.50	9.910	4.349
6060.50	9.923	4.363
6120.50	9.938	4.377
6180.50	9.950	4.389
6240.50	9.962	4.402
6300.50	9.975	4.414
6360.50	9.989	4.428
6420.50	10.003	4.442
6480.50	10.016	4.455
6540.50	10.028	4.467
6600.50	10.038	4.477
6660.50	10.047	4.486
6720.50	10.055	4.494
6780.50	10.062	4.501
6840.50	10.068	4.507
6900.50	10.070	4.510
6960.50	10.073	4.512
7020.50	10.076	4.515
7080.50	10.081	4.520
7140.50	10.081	4.520
7200.50	10.081	4.520
7260.50	10.088	4.527
7320.50	10.097	4.536
7380.50	10.105	4.544
7440.50	10.111	4.551

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
7500.50	10.123	4.562
7560.50	10.132	4.571
7620.50	10.141	4.580
7680.50	10.152	4.591
7740.50	10.162	4.601
7800.50	10.173	4.612
7860.50	10.183	4.622
7920.50	10.195	4.634
7980.50	10.210	4.650
8040.50	10.224	4.663
8100.50	10.235	4.674
8160.50	10.245	4.684
8220.50	10.253	4.692
8280.50	10.261	4.700
8340.50	10.264	4.703
8400.50	10.267	4.707
8460.50	10.270	4.709
8520.50	10.270	4.709
8580.50	10.274	4.713
8640.50	10.281	4.720
8700.50	10.288	4.727
8760.50	10.298	4.737
8820.50	10.309	4.748
8880.50	10.320	4.759
8940.50	10.330	4.769
9000.50	10.341	4.780
9060.50	10.347	4.786
9120.50	10.352	4.791
9180.50	10.357	4.796
9240.50	10.362	4.801
9300.50	10.366	4.805
9360.50	10.374	4.813
9420.50	10.381	4.820
9480.50	10.390	4.829
9540.50	10.398	4.838
9600.50	10.406	4.845
9660.50	10.412	4.851
9720.50	10.417	4.856
9780.50	10.417	4.856
9840.50	10.415	4.854
9900.50	10.413	4.852
9960.50	10.411	4.850
10020.50	10.409	4.848
10080.50	10.410	4.849
10140.50	10.413	4.852
10200.50	10.421	4.860
10260.50	10.429	4.868

Table I6 Recorded data in the observation well, BL-0098, during the long-term aquifer test in the pumping well, SPW20-001 (6 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
10320.50	10.437	4.876
10380.50	10.445	4.884
10440.50	10.451	4.890
10500.50	10.456	4.895
10560.50	10.458	4.897
10620.50	10.458	4.897
10680.50	10.456	4.895
10740.50	10.455	4.895
10800.50	10.456	4.895
10860.50	10.458	4.898
10920.50	10.470	4.909
10980.50	10.489	4.928
11040.50	10.507	4.946
11100.50	10.520	4.959
11160.50	10.530	4.969
11220.50	10.536	4.975
11280.50	10.536	4.976
11340.50	10.535	4.974
11400.50	10.532	4.971
11460.50	10.530	4.969
11520.50	10.530	4.969
11580.50	10.533	4.972
11640.50	10.538	4.977
11700.50	10.548	4.987
11760.50	10.557	4.996
11820.50	10.566	5.005
11880.50	10.574	5.013
11940.50	10.579	5.018
12000.50	10.581	5.020
12060.50	10.578	5.018
12120.50	10.575	5.014
12180.50	10.570	5.009
12240.50	10.568	5.007
12300.50	10.565	5.005
12360.50	10.569	5.008
12420.50	10.576	5.015
12480.50	10.583	5.022
12540.50	10.591	5.030
12600.50	10.599	5.038
12660.50	10.601	5.040
12720.50	10.598	5.037
12780.50	10.591	5.030
12840.50	10.585	5.024
12900.50	10.583	5.022
12960.50	10.565	5.004
13020.50	10.630	5.069
13080.50	10.719	5.159

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
13140.50	10.797	5.236
13200.50	10.861	5.300
13260.50	10.908	5.347
13320.50	10.947	5.386
13380.50	10.977	5.416
13440.50	10.998	5.437
13500.50	11.013	5.452
13560.50	11.024	5.463
13620.50	11.032	5.471
13680.50	11.041	5.480
13740.50	11.053	5.492
13800.50	11.065	5.504
13860.50	11.082	5.521
13920.50	11.099	5.538
13980.50	11.117	5.556
14040.50	11.134	5.573
14100.50	11.150	5.589
14160.50	11.168	5.607
14220.50	11.185	5.624
14280.50	11.197	5.636
14340.50	11.207	5.646
14400.50	11.217	5.656
14460.50	11.229	5.668
14520.50	11.244	5.683
14580.50	11.260	5.699
14640.50	11.279	5.718
14700.50	11.297	5.736
14760.50	11.312	5.751
14820.50	11.323	5.762
14880.50	11.328	5.767
14940.50	11.331	5.770
15000.50	11.329	5.768
15060.50	11.324	5.763
15120.50	11.320	5.759
15180.50	11.318	5.757
15240.50	11.322	5.761
15300.50	11.330	5.770
15360.50	11.342	5.781
15420.50	11.355	5.794
15480.50	11.366	5.805
15540.50	11.374	5.813
15600.50	11.374	5.813
15660.50	11.373	5.812
15720.50	11.368	5.807
15780.50	11.362	5.801
15840.50	11.356	5.795
15900.50	11.355	5.794

Table I6 Recorded data in the observation well, BL-0098, during the long-term aquifer test in the pumping well, SPW20-001 (7 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
15960.50	11.358	5.797
16020.50	11.366	5.805
16080.50	11.377	5.816
16140.50	11.387	5.826
16200.50	11.396	5.836
16260.50	11.403	5.843
16320.50	11.408	5.847
16380.50	11.411	5.851
16440.50	11.412	5.851
16500.50	11.408	5.847
16560.50	11.402	5.841
16620.50	11.398	5.838
16680.50	11.400	5.839
16740.50	11.404	5.843
16800.50	11.414	5.853
16860.50	11.425	5.864
16920.50	11.435	5.874
16980.50	11.445	5.884
17040.50	11.453	5.892
17100.50	11.457	5.896
17160.50	11.458	5.897
17220.50	11.456	5.895
17280.50	11.453	5.892
17340.50	11.450	5.889
17400.50	11.448	5.887
17460.50	11.452	5.892
17520.50	11.458	5.897
17580.50	11.467	5.906
17640.50	11.475	5.914
17700.50	11.481	5.920
17760.50	11.486	5.925
17820.50	11.484	5.923
17880.50	11.476	5.915
17940.50	11.462	5.901
18000.50	11.447	5.886
18060.50	11.436	5.875
18120.50	11.424	5.863
18180.50	11.418	5.857
18240.50	11.423	5.862
18300.50	11.415	5.854
18360.50	11.427	5.867
18420.50	11.450	5.889
18480.50	11.475	5.914
18540.50	11.492	5.931
18600.50	11.504	5.943
18660.50	11.513	5.952
18720.50	11.521	5.960

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
18780.50	11.529	5.968
18840.50	11.540	5.979
18900.50	11.556	5.995
18960.50	11.574	6.013
19020.50	11.592	6.031
19080.50	11.612	6.051
19140.50	11.629	6.068
19200.50	11.644	6.083
19260.50	11.653	6.093
19320.50	11.657	6.096
19380.50	11.658	6.097
19440.50	11.652	6.092
19500.50	11.648	6.087
19560.50	11.644	6.084
19620.50	11.645	6.084
19680.50	11.650	6.089
19740.50	11.663	6.102
19800.50	11.676	6.115
19860.50	11.688	6.127
19920.50	11.698	6.137
19980.50	11.704	6.143
20040.50	11.704	6.143
20100.50	11.702	6.141
20160.50	11.696	6.135
20220.50	11.691	6.130
20280.50	11.688	6.127
20340.50	11.688	6.128
20400.50	11.693	6.132
20460.50	11.700	6.139
20520.50	11.707	6.146
20580.50	11.716	6.155
20640.50	11.722	6.161
20700.50	11.724	6.163
20760.50	11.724	6.163
20820.50	11.719	6.159
20880.50	11.712	6.151
20940.50	11.704	6.144
21000.50	11.699	6.138
21060.50	11.697	6.136
21120.50	11.701	6.140
21180.50	11.708	6.147
21240.50	11.720	6.159
21300.50	11.734	6.173
21360.50	11.745	6.184
21420.50	11.755	6.194
21480.50	11.763	6.202
21540.50	11.767	6.206

Table I6 Recorded data in the observation well, BL-0098, during the long-term aquifer test in the pumping well, SPW20-001 (8 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
21600.50	11.769	6.208
21660.50	11.769	6.208
21720.50	11.770	6.209
21780.50	11.775	6.214
21840.50	11.779	6.218
21900.50	11.787	6.227
21960.50	11.795	6.235
22020.50	11.805	6.244
22080.50	11.812	6.252
22140.50	11.816	6.255
22200.50	11.816	6.255
22260.50	11.812	6.251
22320.50	11.803	6.242
22380.50	11.793	6.232
22440.50	11.784	6.223
22500.50	11.776	6.215
22560.50	11.775	6.214
22620.50	11.779	6.218
22680.50	11.786	6.225
22740.50	11.792	6.231
22800.50	11.798	6.238
22860.50	11.808	6.247
22920.50	11.813	6.252
22980.50	11.819	6.258
23040.50	11.819	6.258
23100.50	11.824	6.263
23160.50	11.829	6.268
23220.50	11.834	6.273
23280.50	11.841	6.280
23340.50	11.851	6.291
23400.50	11.863	6.302
23460.50	11.874	6.313
23520.50	11.885	6.324
23580.50	11.894	6.333
23640.50	11.900	6.339
23700.50	11.901	6.340
23760.50	11.898	6.337
23820.50	11.895	6.334
23880.50	11.888	6.327
23940.50	11.883	6.322
24000.50	11.881	6.320
24060.50	11.880	6.319
24120.50	11.886	6.325
24180.50	11.893	6.332
24240.50	11.898	6.337
24300.50	11.901	6.340
24360.50	11.897	6.336

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
24420.50	11.885	6.324
24480.50	11.876	6.316
24540.50	11.876	6.315
24600.50	11.875	6.314
24660.50	11.877	6.316
24720.50	11.881	6.320
24780.50	11.888	6.327
24840.50	11.898	6.337
24900.50	11.909	6.349
24960.50	11.921	6.361
25020.50	11.933	6.372
25080.50	11.939	6.378
25140.50	11.944	6.383
25200.50	11.946	6.385
25260.50	11.943	6.382
25320.50	11.940	6.379
25380.50	11.934	6.373
25440.50	11.930	6.369
25500.50	11.928	6.367
25560.50	11.927	6.366
25620.50	11.929	6.368
25680.50	11.930	6.370
25740.50	11.934	6.373
25800.50	11.936	6.375
25860.50	11.935	6.374
25920.50	11.936	6.375
25980.50	11.933	6.372
26040.50	11.932	6.371
26100.50	11.929	6.368
26160.50	11.930	6.369
26220.50	11.933	6.372
26280.50	11.937	6.376
26340.50	11.942	6.381
26400.50	11.948	6.387
26460.50	11.954	6.393
26520.50	11.961	6.400
26580.50	11.968	6.407
26640.50	11.974	6.413
26700.50	11.978	6.417
26760.50	11.980	6.419
26820.50	11.980	6.419
26880.50	11.981	6.420
26940.50	11.981	6.420
27000.50	11.982	6.421
27060.50	11.986	6.425
27120.50	11.989	6.428
27180.50	11.993	6.432

Table I6 Recorded data in the observation well, BL-0098, during the long-term aquifer test in the pumping well, SPW20-001 (9 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
27240.50	12.000	6.439
27300.50	11.955	6.395
27360.50	11.939	6.378
27420.50	11.935	6.374
27480.50	11.939	6.379
27540.50	11.946	6.385
27600.50	11.954	6.393
27660.50	11.962	6.401
27720.50	11.971	6.410
27780.50	11.978	6.417
27840.50	11.986	6.426
27900.50	11.996	6.435
27960.50	12.002	6.441
28020.50	12.006	6.445
28080.50	12.010	6.449
28140.50	12.013	6.452
28200.50	12.012	6.451
28260.50	12.008	6.447
28320.50	12.003	6.442
28380.50	11.997	6.436
28440.50	11.992	6.431
28500.50	11.989	6.429
28560.50	11.989	6.428
28620.50	11.987	6.427
28680.50	11.988	6.428
28740.50	11.989	6.428
28800.50	12.000	6.439
28860.50	12.012	6.451
28920.50	12.026	6.465
28980.50	12.038	6.477
29040.50	12.049	6.488
29100.50	12.058	6.497
29160.50	12.065	6.504
29220.50	12.071	6.511
29280.50	12.077	6.516
29340.50	12.082	6.521
29400.50	12.088	6.528
29460.50	12.094	6.533
29520.50	12.099	6.539
29580.50	12.104	6.543
29640.50	12.108	6.547
29700.50	12.109	6.548
29760.50	12.108	6.547
29820.50	12.107	6.546
29880.50	12.102	6.541
29940.50	12.099	6.538
30000.50	12.096	6.535

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
30060.50	12.094	6.533
30120.50	12.092	6.531
30180.50	12.093	6.532
30240.50	12.097	6.536
30300.50	12.109	6.548
30360.50	12.119	6.558
30420.50	12.131	6.570
30480.50	12.142	6.581
30540.50	12.150	6.589
30600.50	12.159	6.598
30660.50	12.165	6.604
30720.50	12.168	6.607
30780.50	12.173	6.612
30840.50	12.177	6.616
30900.50	12.182	6.621
30960.50	12.187	6.626
31020.50	12.195	6.635
31080.50	12.201	6.641
31140.50	12.206	6.645
31200.50	12.210	6.649
31260.50	12.210	6.649
31320.50	12.207	6.646
31380.50	12.204	6.643
31440.50	12.201	6.640
31500.50	12.198	6.637
31560.50	12.198	6.637
31620.50	12.186	6.625
31680.50	12.185	6.624
31740.50	12.189	6.629
31800.50	12.196	6.635
31860.50	12.206	6.645
31920.50	12.216	6.656
31980.50	12.224	6.663
32040.50	12.231	6.670
32100.50	12.230	6.670
32160.50	12.235	6.674
32220.50	12.235	6.674
32280.50	12.234	6.674
32340.50	12.237	6.676
32400.50	12.240	6.679
32460.50	12.245	6.684
32520.50	12.253	6.692
32580.50	12.261	6.700
32640.50	12.267	6.706
32700.50	12.270	6.709
32760.50	12.270	6.709
32820.50	12.266	6.705

Table I6 Recorded data in the observation well, BL-0098, during the long-term aquifer test in the pumping well, SPW20-001 (10 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
32880.50	12.263	6.702
32940.50	12.254	6.693
33000.50	12.251	6.690
33060.50	12.248	6.687
33120.50	12.249	6.688
33180.50	12.252	6.691
33240.50	12.257	6.696
33300.50	12.264	6.704
33360.50	12.275	6.714
33420.50	12.281	6.720
33480.50	12.286	6.725
33540.50	12.288	6.727
33600.50	12.285	6.724
33660.50	12.279	6.718
33720.50	12.276	6.715
33780.50	12.272	6.711
33840.50	12.270	6.709
33900.50	12.274	6.713
33960.50	12.281	6.720
34020.50	12.289	6.728
34080.50	12.298	6.738
34140.50	12.308	6.747
34200.50	12.313	6.752
34260.50	12.316	6.755
34320.50	12.313	6.752
34380.50	12.307	6.746
34440.50	12.299	6.738
34500.50	12.294	6.733
34560.50	12.292	6.732
34620.50	12.295	6.734
34680.50	12.301	6.740
34740.50	12.311	6.750
34800.50	12.319	6.759
34860.50	12.325	6.765
34920.50	12.329	6.768
34980.50	12.328	6.767
35040.50	12.323	6.762
35100.50	12.313	6.752
35160.50	12.302	6.742
35220.50	12.294	6.733
35280.50	12.287	6.726
35340.50	12.286	6.725
35400.50	12.289	6.728
35460.50	12.296	6.735
35520.50	12.307	6.746
35580.50	12.316	6.755
35640.50	12.324	6.763

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
35700.50	12.331	6.770
35760.50	12.330	6.769
35820.50	12.324	6.764
35880.50	12.313	6.752
35940.50	12.302	6.741
36000.50	12.298	6.737
36060.50	12.298	6.737
36120.50	12.304	6.743
36180.50	12.314	6.753
36240.50	12.325	6.764
36300.50	12.336	6.775
36360.50	12.343	6.782
36420.50	12.346	6.786
36480.50	12.345	6.784
36540.50	12.337	6.776
36600.50	12.324	6.763
36660.50	12.314	6.753
36720.50	12.303	6.742
36780.50	12.296	6.735
36840.50	12.296	6.735
36900.50	12.298	6.738
36960.50	12.305	6.744
37020.50	12.314	6.753
37080.50	12.323	6.763
37140.50	12.329	6.768
37200.50	12.331	6.771
37260.50	12.328	6.767
37320.50	12.319	6.758
37380.50	12.311	6.750
37440.50	12.307	6.746
37500.50	12.307	6.746
37560.50	12.314	6.754
37620.50	12.324	6.763
37680.50	12.336	6.775
37740.50	12.348	6.787
37800.50	12.362	6.802
37860.50	12.367	6.806
37920.50	12.369	6.808
37980.50	12.365	6.804
38040.50	12.359	6.798
38100.50	12.346	6.786
38160.50	12.333	6.772
38220.50	12.325	6.764
38280.50	12.320	6.759
38340.50	12.320	6.759
38400.50	12.326	6.765
38460.50	12.336	6.775

Table I6 Recorded data in the observation well, BL-0098, during the long-term aquifer test in the pumping well, SPW20-001 (11 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
38520.50	12.348	6.787
38580.50	12.358	6.797
38640.50	12.364	6.803
38700.50	12.367	6.806
38760.50	12.363	6.802
38820.50	12.359	6.798
38880.50	12.360	6.800
38940.50	12.375	6.814
39000.50	12.396	6.835
39060.50	12.419	6.858
39120.50	12.444	6.884
39180.50	12.468	6.907
39240.50	12.492	6.931
39300.50	12.510	6.949
39360.50	12.521	6.960
39420.50	12.528	6.967
39480.50	12.528	6.967
39540.50	12.524	6.963
39600.50	12.518	6.957
39660.50	12.511	6.950
39720.50	12.508	6.947
39780.50	12.509	6.948
39840.50	12.516	6.955
39900.50	12.528	6.967
39960.50	12.542	6.981
40020.50	12.558	6.997
40080.50	12.571	7.010
40140.50	12.583	7.022
40200.50	12.592	7.031
40260.50	12.598	7.037
40320.50	12.602	7.041
40380.50	12.605	7.044
40440.50	12.612	7.052
40500.50	12.621	7.060
40560.50	12.633	7.072
40620.50	12.646	7.085
40680.50	12.661	7.101
40740.50	12.672	7.111
40800.50	12.682	7.121
40860.50	12.685	7.124
40920.50	12.682	7.121
40980.50	12.675	7.114
41040.50	12.662	7.101
41100.50	12.648	7.087
41160.50	12.639	7.078
41220.50	12.631	7.070
41280.50	12.630	7.069

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
41340.50	12.635	7.074
41400.50	12.642	7.082
41460.50	12.654	7.094

Table I7 Recovery data in the observation well, BL-0098, after the long-term aquifer test in the pumping well, SPW20-001 (1 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
0 (Start)	12.658	0.000
2.00	12.658	-0.001
7.00	12.659	-0.001
12.00	12.660	-0.002
17.00	12.661	-0.003
22.00	12.662	-0.004
27.00	12.663	-0.006
32.00	12.663	-0.006
37.00	12.664	-0.007
42.00	12.667	-0.009
47.00	12.667	-0.010
52.00	12.668	-0.010
57.00	12.670	-0.012
62.00	12.671	-0.013
67.00	12.673	-0.016
72.00	12.672	-0.015
77.00	12.672	-0.015
82.00	12.670	-0.013
87.00	12.667	-0.009
92.00	12.662	-0.004
97.00	12.656	0.001
102.00	12.648	0.010
107.00	12.638	0.019
112.00	12.627	0.030
117.00	12.617	0.040
122.00	12.604	0.053
127.00	12.591	0.067
132.00	12.576	0.082
137.00	12.562	0.096
142.00	12.546	0.112
147.00	12.530	0.127
152.00	12.513	0.145
157.00	12.497	0.161
162.00	12.478	0.180
167.00	12.461	0.197
172.00	12.441	0.217
177.00	12.423	0.235
182.00	12.403	0.254
187.00	12.384	0.274
192.00	12.366	0.292
197.00	12.345	0.312
202.00	12.326	0.331
207.00	12.306	0.351
212.00	12.285	0.373
217.00	12.266	0.392
222.00	12.246	0.411
227.00	12.226	0.432
232.00	12.205	0.453
237.00	12.185	0.473
242.00	12.166	0.492
247.00	12.145	0.513
252.00	12.126	0.532
257.00	12.105	0.552
262.00	12.085	0.573
267.00	12.064	0.594
272.00	12.045	0.612
277.00	12.024	0.634
282.00	12.005	0.653
287.00	11.985	0.673
292.00	11.964	0.694
297.00	11.947	0.711
302.00	11.930	0.728
307.00	11.911	0.747
312.00	11.890	0.767
317.00	11.871	0.787
322.00	11.851	0.807
327.00	11.832	0.826
332.00	11.813	0.845
337.00	11.793	0.865
342.00	11.774	0.883
347.00	11.756	0.902
352.00	11.737	0.921
357.00	11.719	0.939
362.00	11.701	0.957
367.00	11.681	0.976
372.00	11.663	0.995
377.00	11.646	1.011
382.00	11.629	1.029
387.00	11.611	1.047
392.00	11.592	1.066
397.00	11.576	1.082
402.00	11.557	1.100
407.00	11.541	1.117
412.00	11.522	1.135
417.00	11.506	1.152
422.00	11.489	1.169
427.00	11.473	1.185
432.00	11.456	1.202
437.00	11.439	1.218
442.00	11.423	1.234
447.00	11.408	1.250
452.00	11.392	1.265
457.00	11.375	1.282
462.00	11.359	1.298

Table I7 Recovery data in the observation well, BL-0098, after the long-term aquifer test in the pumping well, SPW20-001 (2 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
467.00	11.344	1.314
472.00	11.329	1.328
477.00	11.313	1.344
482.00	11.298	1.360
487.00	11.284	1.373
492.00	11.267	1.390
497.00	11.252	1.405
502.00	11.238	1.419
507.00	11.223	1.434
512.00	11.209	1.448
517.00	11.195	1.463
522.00	11.180	1.477
527.00	11.167	1.491
532.00	11.152	1.506
537.00	11.138	1.519
542.00	11.125	1.533
547.00	11.111	1.547
552.00	11.097	1.560
557.00	11.085	1.572
562.00	11.070	1.587
567.00	11.058	1.600
572.00	11.046	1.611
577.00	11.033	1.624
582.00	11.020	1.638
587.00	11.007	1.651
592.00	10.994	1.664
597.00	10.982	1.676
602.00	10.968	1.689
607.00	10.956	1.702
612.00	10.942	1.715
617.00	10.930	1.727
622.00	10.918	1.740
627.00	10.905	1.752
632.00	10.894	1.764
637.00	10.882	1.776
642.00	10.870	1.788
647.00	10.858	1.799
652.00	10.847	1.811
657.00	10.835	1.823
662.00	10.823	1.834
667.00	10.811	1.847
672.00	10.800	1.858
677.00	10.788	1.869
682.00	10.778	1.880
687.00	10.765	1.893
692.00	10.754	1.904
697.00	10.742	1.915

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
702.00	10.732	1.925
707.00	10.721	1.937
712.00	10.709	1.949
717.00	10.699	1.959
722.00	10.689	1.968
727.00	10.677	1.981
732.00	10.666	1.991
737.00	10.654	2.004
742.00	10.645	2.013
747.00	10.634	2.023
752.00	10.623	2.034
757.00	10.612	2.046
762.00	10.602	2.056
767.00	10.591	2.066
772.00	10.581	2.076
777.00	10.571	2.087
782.00	10.559	2.099
787.00	10.550	2.108
792.00	10.540	2.118
797.00	10.529	2.129
802.00	10.519	2.139
807.00	10.509	2.149
812.00	10.498	2.160
817.00	10.488	2.170
822.00	10.477	2.181
827.00	10.467	2.190
832.00	10.459	2.199
837.00	10.447	2.210
842.00	10.437	2.220
847.00	10.428	2.230
852.00	10.418	2.240
857.00	10.407	2.250
862.00	10.397	2.260
867.00	10.388	2.270
872.00	10.378	2.279
877.00	10.369	2.288
882.00	10.358	2.300
887.00	10.349	2.309
892.00	10.339	2.318
897.00	10.329	2.329
902.00	10.318	2.340
907.00	10.309	2.348
912.00	10.299	2.358
917.00	10.290	2.368
922.00	10.280	2.378
927.00	10.271	2.387
932.00	10.261	2.397

Table I7 Recovery data in the observation well, BL-0098, after the long-term aquifer test in the pumping well, SPW20-001 (3 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
937.00	10.251	2.407
942.00	10.241	2.416
947.00	10.231	2.427
952.00	10.223	2.435
957.00	10.213	2.445
962.00	10.204	2.454
967.00	10.193	2.465
972.00	10.184	2.473
977.00	10.175	2.483
982.00	10.165	2.493
987.00	10.156	2.501
992.00	10.147	2.510
997.00	10.137	2.521
1002.00	10.128	2.530
1007.00	10.119	2.539
1012.00	10.111	2.546
1017.00	10.101	2.557
1022.00	10.092	2.565
1027.00	10.083	2.575
1032.00	10.074	2.584
1037.00	10.064	2.594
1042.00	10.055	2.602
1047.00	10.048	2.610
1052.00	10.038	2.620
1057.00	10.030	2.628
1062.00	10.019	2.638
1067.00	10.010	2.648
1072.00	10.002	2.656
1077.00	9.992	2.665
1082.00	9.984	2.674
1087.00	9.975	2.682
1092.00	9.967	2.691
1097.00	9.958	2.699
1102.00	9.950	2.708
1107.00	9.940	2.718
1112.00	9.933	2.725
1117.00	9.925	2.733
1122.00	9.915	2.743
1127.00	9.907	2.750
1132.00	9.899	2.758
1137.00	9.890	2.767
1142.00	9.882	2.776
1147.00	9.874	2.784
1152.00	9.865	2.792
1157.00	9.857	2.800
1162.00	9.849	2.808
1167.00	9.843	2.815
1172.00	9.835	2.823
1177.00	9.827	2.831
1182.00	9.818	2.839
1187.00	9.812	2.846
1192.00	9.802	2.856
1197.00	9.795	2.862
1202.00	9.788	2.869
1207.00	9.780	2.877
1212.00	9.773	2.884
1217.00	9.765	2.892
1222.00	9.758	2.899
1227.00	9.751	2.907
1232.00	9.744	2.914
1237.00	9.737	2.921
1242.00	9.730	2.928
1247.00	9.722	2.935
1252.00	9.716	2.942
1257.00	9.710	2.948
1262.00	9.702	2.956
1267.00	9.696	2.961
1272.00	9.690	2.968
1277.00	9.682	2.975
1282.00	9.676	2.982
1287.00	9.670	2.988
1292.00	9.663	2.994
1297.00	9.657	3.001
1302.00	9.650	3.008
1307.00	9.644	3.014
1312.00	9.637	3.021
1317.00	9.632	3.026
1322.00	9.625	3.033
1327.00	9.619	3.039
1332.00	9.614	3.043
1337.00	9.608	3.050
1342.00	9.601	3.057
1347.00	9.595	3.062
1352.00	9.589	3.068
1357.00	9.585	3.073
1362.00	9.578	3.079
1367.00	9.573	3.084
1372.00	9.566	3.091
1377.00	9.562	3.096
1382.00	9.556	3.102
1387.00	9.550	3.108
1392.00	9.546	3.112
1397.00	9.541	3.117
1402.00	9.536	3.122

Table I7 Recovery data in the observation well, BL-0098, after the long-term aquifer test in the pumping well, SPW20-001 (4 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
1407.00	9.530	3.128
1412.00	9.525	3.133
1417.00	9.519	3.138
1422.00	9.515	3.143
1427.00	9.509	3.148
1432.00	9.505	3.153
1437.00	9.498	3.159
1467.00	9.471	3.186
1497.00	9.442	3.216
1527.00	9.415	3.243
1557.00	9.388	3.270
1587.00	9.362	3.296
1617.00	9.336	3.321
1647.00	9.309	3.348
1677.00	9.283	3.375
1707.00	9.256	3.401
1737.00	9.232	3.426
1767.00	9.205	3.452
1797.00	9.179	3.478
1827.00	9.153	3.504
1857.00	9.127	3.531
1887.00	9.104	3.553
1917.00	9.081	3.576
1947.00	9.061	3.597
1977.00	9.040	3.617
2007.00	9.019	3.639
2037.00	9.000	3.657
2067.00	8.984	3.674
2097.00	8.966	3.691
2127.00	8.951	3.707
2157.00	8.935	3.722
2187.00	8.920	3.738
2217.00	8.904	3.754
2247.00	8.889	3.769
2277.00	8.871	3.787
2307.00	8.855	3.803
2337.00	8.837	3.821
2367.00	8.819	3.839
2397.00	8.799	3.859
2427.00	8.779	3.879
2457.00	8.757	3.901
2487.00	8.736	3.921
2517.00	8.714	3.943
2547.00	8.692	3.966
2577.00	8.669	3.988
2607.00	8.648	4.009
2637.00	8.625	4.032
2667.00	8.605	4.053
2697.00	8.582	4.075
2727.00	8.562	4.096
2757.00	8.545	4.112
2787.00	8.529	4.128
2817.00	8.511	4.146
2847.00	8.495	4.163
2877.00	8.478	4.180
2907.00	8.465	4.192
2937.00	8.452	4.206
2967.00	8.438	4.220
2997.00	8.426	4.232
3027.00	8.410	4.247
3057.00	8.399	4.258
3087.00	8.386	4.272
3117.00	8.376	4.282
3147.00	8.365	4.292

Table I8 Recorded data in the observation well, BL-0102, during the long-term aquifer test in the pumping well, SPW20-001 (1 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
0 (Static)	10.991	0.000
0.50	11.201	0.210
5.50	14.558	3.568
10.50	15.535	4.545
15.50	16.038	5.047
20.50	16.639	5.648
25.50	17.140	6.149
30.50	17.480	6.489
35.50	17.809	6.818
40.50	18.096	7.105
45.50	18.343	7.352
50.50	18.593	7.602
55.50	18.834	7.843
60.50	19.067	8.076
65.50	19.281	8.290
70.50	19.482	8.492
75.50	19.686	8.695
80.50	19.877	8.886
85.50	20.053	9.062
90.50	20.223	9.232
95.50	20.385	9.395
100.50	20.543	9.552
105.50	20.687	9.696
110.50	20.824	9.834
115.50	20.951	9.960
120.50	21.072	10.082
125.50	21.190	10.199
130.50	21.291	10.300
135.50	21.391	10.400
140.50	21.491	10.501
145.50	21.588	10.597
150.50	21.685	10.694
155.50	21.784	10.793
160.50	21.873	10.883
165.50	21.960	10.969
170.50	22.040	11.049
175.50	22.115	11.124
180.50	22.190	11.199
185.50	22.266	11.275
190.50	22.342	11.351
195.50	22.412	11.422
200.50	22.480	11.489
205.50	22.541	11.550
210.50	22.601	11.610
215.50	22.657	11.667
220.50	22.713	11.723
225.50	22.766	11.775
230.50	22.818	11.827
235.50	22.870	11.879
240.50	22.916	11.926
245.50	22.962	11.971
250.50	23.005	12.014
255.50	23.045	12.054
260.50	23.081	12.090
265.50	23.120	12.129
270.50	23.158	12.167
275.50	23.194	12.203
280.50	23.230	12.239
285.50	23.266	12.276
290.50	23.303	12.312
295.50	23.340	12.349
300.50	23.372	12.381
305.50	23.406	12.415
310.50	23.441	12.450
315.50	23.476	12.485
320.50	23.510	12.519
325.50	23.543	12.552
330.50	23.573	12.582
335.50	23.599	12.609
340.50	23.616	12.625
345.50	23.641	12.650
350.50	23.672	12.681
355.50	23.698	12.707
360.50	23.724	12.733
365.50	23.747	12.757
370.50	23.774	12.783
375.50	23.798	12.807
380.50	23.817	12.826
385.50	23.839	12.848
390.50	23.859	12.869
395.50	23.887	12.896
400.50	23.910	12.920
405.50	23.933	12.942
410.50	23.955	12.964
415.50	23.975	12.984
420.50	23.992	13.001
425.50	24.007	13.016
430.50	24.020	13.030
435.50	24.038	13.047
440.50	24.054	13.064
445.50	24.073	13.083
450.50	24.092	13.101
455.50	24.107	13.116
460.50	24.124	13.133

Table I8 Recorded data in the observation well, BL-0102, during the long-term aquifer test in the pumping well, SPW20-001 (2 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
465.50	24.139	13.148
470.50	24.155	13.164
475.50	24.172	13.181
480.50	24.187	13.196
485.50	24.196	13.205
490.50	24.200	13.209
495.50	24.209	13.218
500.50	24.226	13.235
505.50	24.254	13.263
510.50	24.282	13.292
515.50	24.304	13.313
520.50	24.324	13.333
525.50	24.340	13.349
530.50	24.355	13.364
535.50	24.368	13.377
540.50	24.385	13.394
545.50	24.395	13.404
550.50	24.406	13.415
555.50	24.416	13.425
560.50	24.428	13.437
565.50	24.435	13.444
570.50	24.445	13.455
575.50	24.459	13.468
580.50	24.469	13.479
585.50	24.478	13.488
590.50	24.483	13.492
595.50	24.488	13.497
600.50	24.492	13.501
605.50	24.498	13.507
610.50	24.495	13.504
615.50	24.496	13.505
620.50	24.499	13.509
625.50	24.501	13.510
630.50	24.505	13.514
635.50	24.507	13.516
640.50	24.511	13.520
645.50	24.515	13.524
650.50	24.521	13.530
655.50	24.530	13.539
660.50	24.535	13.545
665.50	24.540	13.550
670.50	24.546	13.555
675.50	24.553	13.563
680.50	24.560	13.569
685.50	24.567	13.576
690.50	24.574	13.583
695.50	24.582	13.592

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
700.50	24.589	13.598
705.50	24.597	13.606
710.50	24.605	13.614
715.50	24.611	13.620
720.50	24.615	13.624
725.50	24.620	13.629
730.50	24.624	13.634
735.50	24.632	13.641
740.50	24.641	13.650
745.50	24.647	13.657
750.50	24.656	13.665
755.50	24.666	13.675
760.50	24.681	13.690
765.50	24.689	13.698
770.50	24.696	13.705
775.50	24.704	13.713
780.50	24.710	13.720
785.50	24.716	13.725
790.50	24.723	13.732
795.50	24.729	13.738
800.50	24.736	13.745
805.50	24.742	13.751
810.50	24.748	13.757
815.50	24.755	13.764
820.50	24.763	13.772
825.50	24.771	13.780
830.50	24.778	13.787
835.50	24.786	13.795
840.50	24.794	13.803
845.50	24.798	13.807
850.50	24.804	13.813
855.50	24.809	13.818
860.50	24.815	13.824
865.50	24.820	13.829
870.50	24.825	13.834
875.50	24.830	13.839
880.50	24.835	13.844
885.50	24.840	13.849
890.50	24.842	13.852
895.50	24.845	13.854
900.50	24.858	13.867
905.50	24.862	13.871
910.50	24.868	13.877
915.50	24.871	13.881
920.50	24.877	13.886
925.50	24.882	13.892
930.50	24.886	13.895

Table I8 Recorded data in the observation well, BL-0102, during the long-term aquifer test in the pumping well, SPW20-001 (3 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
935.50	24.890	13.899
940.50	24.894	13.903
945.50	24.899	13.908
950.50	24.904	13.913
955.50	24.909	13.918
960.50	24.912	13.922
965.50	24.919	13.928
970.50	24.924	13.933
975.50	24.928	13.938
980.50	24.934	13.943
985.50	24.940	13.949
990.50	24.945	13.954
995.50	24.950	13.959
1000.50	24.955	13.964
1005.50	24.958	13.967
1010.50	24.963	13.973
1015.50	24.968	13.977
1020.50	24.975	13.984
1025.50	24.981	13.990
1030.50	24.986	13.995
1035.50	24.991	14.000
1040.50	24.992	14.001
1045.50	24.994	14.003
1050.50	24.998	14.007
1055.50	25.001	14.010
1060.50	25.005	14.014
1065.50	25.009	14.019
1070.50	25.012	14.022
1075.50	25.016	14.025
1080.50	25.020	14.029
1085.50	25.024	14.033
1090.50	25.027	14.036
1095.50	25.031	14.040
1100.50	25.036	14.045
1105.50	25.039	14.049
1110.50	25.044	14.053
1115.50	25.053	14.062
1120.50	25.058	14.067
1125.50	25.063	14.072
1130.50	25.067	14.077
1135.50	25.071	14.080
1140.50	25.075	14.084
1145.50	25.080	14.089
1150.50	25.085	14.094
1155.50	25.090	14.099
1160.50	25.095	14.104
1165.50	25.100	14.109
1170.50	25.106	14.115
1175.50	25.109	14.119
1180.50	25.115	14.124
1185.50	25.118	14.127
1190.50	25.123	14.132
1195.50	25.129	14.138
1200.50	25.133	14.142
1205.50	25.137	14.147
1210.50	25.143	14.152
1215.50	25.147	14.157
1220.50	25.152	14.161
1225.50	25.157	14.166
1230.50	25.159	14.168
1235.50	25.161	14.171
1240.50	25.164	14.173
1245.50	25.169	14.178
1250.50	25.172	14.181
1255.50	25.177	14.186
1260.50	25.181	14.190
1265.50	25.183	14.192
1270.50	25.185	14.194
1275.50	25.189	14.199
1280.50	25.194	14.203
1285.50	25.196	14.206
1290.50	25.200	14.209
1295.50	25.202	14.212
1300.50	25.215	14.225
1305.50	25.219	14.228
1310.50	25.221	14.230
1315.50	25.221	14.230
1320.50	25.225	14.234
1325.50	25.228	14.237
1330.50	25.231	14.240
1335.50	25.230	14.239
1340.50	25.228	14.238
1345.50	25.230	14.240
1350.50	25.233	14.242
1355.50	25.236	14.245
1360.50	25.238	14.247
1365.50	25.242	14.251
1370.50	25.245	14.254
1375.50	25.248	14.258
1380.50	25.250	14.260
1385.50	25.252	14.262
1390.50	25.255	14.264
1395.50	25.258	14.267
1400.50	25.260	14.269

Table I8 Recorded data in the observation well, BL-0102, during the long-term aquifer test in the pumping well, SPW20-001 (4 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
1405.50	25.263	14.273
1410.50	25.268	14.277
1415.50	25.263	14.273
1420.50	25.269	14.278
1425.50	25.272	14.281
1430.50	25.276	14.286
1435.50	25.280	14.289
1440.50	25.284	14.293
1470.50	25.305	14.314
1500.50	25.313	14.322
1530.50	25.330	14.339
1560.50	25.341	14.351
1590.50	25.364	14.373
1620.50	25.383	14.392
1650.50	25.405	14.414
1680.50	25.423	14.433
1710.50	25.438	14.448
1740.50	25.459	14.469
1770.50	25.477	14.486
1800.50	25.496	14.505
1830.50	25.510	14.519
1860.50	25.526	14.536
1890.50	25.538	14.548
1920.50	25.550	14.559
1950.50	25.570	14.579
1980.50	25.588	14.597
2010.50	25.607	14.617
2040.50	25.623	14.632
2070.50	25.637	14.647
2100.50	25.650	14.660
2130.50	25.662	14.671
2160.50	25.670	14.679
2190.50	25.685	14.694
2220.50	25.698	14.707
2250.50	25.704	14.713
2280.50	25.711	14.720
2310.50	25.719	14.728
2340.50	25.727	14.736
2370.50	25.729	14.739
2400.50	25.730	14.739
2430.50	25.748	14.757
2460.50	25.761	14.770
2490.50	25.769	14.778
2520.50	25.778	14.787
2550.50	25.786	14.795
2580.50	25.824	14.834
2610.50	25.837	14.846

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
2640.50	25.847	14.857
2670.50	25.858	14.868
2700.50	25.878	14.887
2730.50	25.878	14.887
2760.50	25.871	14.880
2790.50	25.871	14.880
2820.50	25.876	14.885
2850.50	25.872	14.881
2950.50	25.868	14.877
2970.50	25.854	14.863
3000.50	25.870	14.879
3030.50	25.881	14.890
3060.50	25.885	14.894
3090.50	25.892	14.901
3120.50	25.896	14.905
3150.50	25.903	14.912
3180.50	25.928	14.937
3210.50	25.967	14.976
3240.50	25.984	14.993
3270.50	25.998	15.007
3300.50	26.018	15.027
3330.50	26.029	15.038
3360.50	26.039	15.049
3390.50	26.050	15.060
3420.50	26.059	15.068
3480.50	26.073	15.082
3540.50	26.089	15.099
3600.50	26.101	15.110
3660.50	26.110	15.119
3720.50	26.125	15.134
3780.50	26.131	15.140
3840.50	26.131	15.140
3900.50	26.125	15.134
3960.50	26.131	15.140
4020.50	26.137	15.146
4080.50	26.141	15.150
4140.50	26.148	15.158
4200.50	26.170	15.180
4260.50	26.189	15.198
4320.50	26.195	15.205
4380.50	26.214	15.223
4440.50	26.222	15.232
4500.50	26.239	15.248
4560.50	26.250	15.259
4620.50	26.263	15.272
4680.50	26.277	15.286
4740.50	26.292	15.301

Table I8 Recorded data in the observation well, BL-0102, during the long-term aquifer test in the pumping well, SPW20-001 (5 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
4800.50	26.305	15.314
4860.50	26.319	15.328
4920.50	26.333	15.342
4980.50	26.336	15.346
5040.50	26.344	15.354
5100.50	26.351	15.360
5160.50	26.357	15.366
5220.50	26.362	15.371
5280.50	26.371	15.381
5340.50	26.378	15.388
5400.50	26.406	15.416
5460.50	26.432	15.442
5520.50	26.465	15.475
5580.50	26.494	15.503
5640.50	26.516	15.525
5700.50	26.529	15.538
5760.50	26.541	15.550
5820.50	26.559	15.568
5880.50	26.565	15.574
5940.50	26.568	15.577
6000.50	26.573	15.582
6060.50	26.581	15.590
6120.50	26.584	15.593
6180.50	26.586	15.595
6240.50	26.617	15.626
6300.50	26.629	15.638
6360.50	26.642	15.651
6420.50	26.647	15.656
6480.50	26.659	15.668
6540.50	26.683	15.692
6600.50	26.692	15.701
6660.50	26.692	15.701
6720.50	26.695	15.705
6780.50	26.684	15.693
6840.50	26.685	15.694
6900.50	26.692	15.701
6960.50	26.692	15.702
7020.50	26.689	15.698
7080.50	26.684	15.693
7140.50	26.696	15.706
7200.50	26.704	15.713
7260.50	26.729	15.738
7320.50	26.730	15.739
7380.50	26.733	15.742
7440.50	26.740	15.749
7500.50	26.743	15.752
7560.50	26.747	15.757

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
7620.50	26.754	15.763
7680.50	26.761	15.770
7740.50	26.764	15.774
7800.50	26.771	15.780
7860.50	26.777	15.786
7920.50	26.778	15.787
7980.50	26.780	15.789
8040.50	26.780	15.789
8100.50	26.788	15.797
8160.50	26.789	15.798
8220.50	26.789	15.798
8280.50	26.786	15.795
8340.50	26.786	15.795
8400.50	26.785	15.794
8460.50	26.782	15.791
8520.50	26.787	15.796
8580.50	26.792	15.801
8640.50	26.799	15.808
8700.50	26.805	15.814
8760.50	26.811	15.821
8820.50	26.829	15.839
8880.50	26.840	15.849
8940.50	26.846	15.855
9000.50	26.847	15.856
9060.50	26.855	15.864
9120.50	26.855	15.864
9180.50	26.854	15.863
9240.50	26.855	15.864
9300.50	26.857	15.866
9360.50	26.861	15.870
9420.50	26.865	15.874
9480.50	26.869	15.878
9540.50	26.872	15.881
9600.50	26.872	15.881
9660.50	26.866	15.876
9720.50	26.861	15.871
9780.50	26.854	15.863
9840.50	26.853	15.863
9900.50	26.851	15.861
9960.50	26.849	15.858
10020.50	26.850	15.859
10080.50	26.851	15.861
10140.50	26.857	15.866
10200.50	26.863	15.872
10260.50	26.870	15.880
10320.50	26.879	15.888
10380.50	26.879	15.888

Table I8 Recorded data in the observation well, BL-0102, during the long-term aquifer test in the pumping well, SPW20-001 (6 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
10440.50	26.883	15.892
10500.50	26.887	15.897
10560.50	26.891	15.900
10620.50	26.889	15.898
10680.50	26.889	15.899
10740.50	26.896	15.905
10800.50	26.896	15.905
10860.50	26.897	15.906
10920.50	26.912	15.921
10980.50	26.924	15.934
11040.50	26.937	15.946
11100.50	26.940	15.949
11160.50	26.941	15.951
11220.50	26.944	15.953
11280.50	26.943	15.952
11340.50	26.945	15.954
11400.50	26.946	15.956
11460.50	26.960	15.969
11520.50	26.976	15.985
11580.50	26.971	15.981
11640.50	26.988	15.998
11700.50	26.992	16.001
11760.50	26.996	16.005
11820.50	27.000	16.009
11880.50	27.002	16.011
11940.50	27.003	16.012
12000.50	27.003	16.012
12060.50	27.002	16.011
12120.50	26.999	16.008
12180.50	27.001	16.010
12240.50	27.002	16.011
12300.50	27.003	16.012
12360.50	27.004	16.013
12420.50	27.014	16.023
12480.50	27.023	16.032
12540.50	27.025	16.034
12600.50	27.031	16.040
12660.50	27.030	16.040
12720.50	27.035	16.044
12780.50	27.033	16.042
12840.50	27.036	16.045
12900.50	24.196	13.205
12960.50	29.659	18.668
13020.50	29.727	18.736
13080.50	29.203	18.212
13140.50	28.900	17.910
13200.50	28.653	17.662
13260.50	28.585	17.594
13320.50	28.566	17.575
13380.50	28.553	17.562
13440.50	28.557	17.566
13500.50	28.556	17.565
13560.50	28.557	17.566
13620.50	28.560	17.569
13680.50	28.567	17.576
13740.50	28.572	17.581
13800.50	28.580	17.589
13860.50	28.593	17.602
13920.50	28.607	17.616
13980.50	28.565	17.574
14040.50	28.620	17.629
14100.50	28.920	17.929
14160.50	28.970	17.980
14220.50	28.990	17.999
14280.50	29.006	18.015
14340.50	29.022	18.031
14400.50	29.032	18.041
14460.50	29.033	18.042
14520.50	29.042	18.051
14580.50	29.044	18.053
14640.50	29.049	18.058
14700.50	29.053	18.062
14760.50	29.054	18.063
14820.50	29.049	18.058
14880.50	29.044	18.054
14940.50	29.041	18.051
15000.50	29.043	18.052
15060.50	29.044	18.053
15120.50	29.045	18.054
15180.50	29.050	18.059
15240.50	29.054	18.063
15300.50	29.056	18.066
15360.50	29.059	18.069
15420.50	29.065	18.074
15480.50	29.065	18.074
15540.50	29.061	18.071
15600.50	29.049	18.059
15660.50	29.038	18.047
15720.50	29.036	18.045
15780.50	29.036	18.045
15840.50	29.035	18.044
15900.50	29.038	18.048
15960.50	29.043	18.052
16020.50	29.048	18.057

Table I8 Recorded data in the observation well, BL-0102, during the long-term aquifer test in the pumping well, SPW20-001 (7 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
16080.50	29.053	18.062
16140.50	29.060	18.070
16200.50	29.063	18.072
16260.50	29.063	18.072
16320.50	29.060	18.069
16380.50	29.067	18.076
16440.50	29.064	18.074
16500.50	29.059	18.068
16560.50	29.055	18.064
16620.50	29.063	18.072
16680.50	29.066	18.076
16740.50	29.064	18.073
16800.50	29.071	18.081
16860.50	29.080	18.089
16920.50	29.084	18.093
16980.50	29.084	18.093
17040.50	29.070	18.079
17100.50	29.064	18.074
17160.50	29.060	18.070
17220.50	29.056	18.065
17280.50	29.055	18.064
17340.50	29.050	18.059
17400.50	29.053	18.062
17460.50	29.053	18.062
17520.50	29.063	18.072
17580.50	29.073	18.082
17640.50	29.077	18.086
17700.50	29.076	18.085
17760.50	29.070	18.080
17820.50	29.066	18.076
17880.50	29.061	18.070
17940.50	29.055	18.064
18000.50	29.050	18.059
18060.50	29.042	18.052
18120.50	29.032	18.041
18180.50	29.032	18.041
18240.50	28.067	17.076
18300.50	29.221	18.230
18360.50	29.398	18.407
18420.50	29.351	18.360
18480.50	29.340	18.350
18540.50	29.342	18.351
18600.50	29.351	18.360
18660.50	29.323	18.333
18720.50	29.322	18.331
18780.50	29.326	18.335
18840.50	29.335	18.344

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
18900.50	29.337	18.346
18960.50	29.354	18.363
19020.50	29.367	18.376
19080.50	29.380	18.389
19140.50	29.393	18.402
19200.50	29.398	18.407
19260.50	29.402	18.411
19320.50	29.400	18.409
19380.50	29.402	18.412
19440.50	29.396	18.405
19500.50	29.399	18.408
19560.50	29.402	18.411
19620.50	29.466	18.475
19680.50	29.540	18.549
19740.50	29.493	18.502
19800.50	29.523	18.532
19860.50	29.534	18.543
19920.50	29.534	18.543
19980.50	29.531	18.540
20040.50	29.521	18.530
20100.50	29.517	18.526
20160.50	29.517	18.527
20220.50	29.526	18.535
20280.50	29.526	18.535
20340.50	29.529	18.538
20400.50	29.532	18.541
20460.50	29.536	18.545
20520.50	29.552	18.561
20580.50	29.569	18.578
20640.50	29.570	18.579
20700.50	29.576	18.585
20760.50	29.572	18.581
20820.50	29.563	18.572
20880.50	29.567	18.576
20940.50	29.569	18.578
21000.50	29.568	18.577
21060.50	29.570	18.580
21120.50	29.571	18.580
21180.50	29.578	18.587
21240.50	29.588	18.597
21300.50	29.589	18.598
21360.50	29.591	18.601
21420.50	29.589	18.599
21480.50	29.591	18.600
21540.50	29.595	18.605
21600.50	29.598	18.607
21660.50	29.600	18.610

Table I8 Recorded data in the observation well, BL-0102, during the long-term aquifer test in the pumping well, SPW20-001 (8 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
21720.50	29.602	18.611
21780.50	29.605	18.614
21840.50	29.605	18.614
21900.50	29.608	18.617
21960.50	29.612	18.621
22020.50	29.620	18.629
22080.50	29.621	18.630
22140.50	29.609	18.618
22200.50	29.600	18.609
22260.50	29.590	18.599
22320.50	29.586	18.595
22380.50	29.580	18.590
22440.50	29.584	18.593
22500.50	29.578	18.587
22560.50	29.581	18.590
22620.50	29.580	18.589
22680.50	29.585	18.594
22740.50	29.580	18.589
22800.50	29.576	18.586
22860.50	29.577	18.586
22920.50	29.571	18.580
22980.50	29.566	18.575
23040.50	29.568	18.577
23100.50	29.571	18.581
23160.50	29.573	18.582
23220.50	29.585	18.594
23280.50	29.590	18.599
23340.50	29.597	18.606
23400.50	29.605	18.614
23460.50	29.618	18.627
23520.50	29.622	18.631
23580.50	29.622	18.631
23640.50	29.629	18.638
23700.50	29.628	18.637
23760.50	29.624	18.634
23820.50	29.619	18.629
23880.50	29.615	18.624
23940.50	29.618	18.627
24000.50	29.627	18.636
24060.50	29.629	18.639
24120.50	29.611	18.620
24180.50	29.602	18.611
24240.50	29.587	18.597
24300.50	29.579	18.589
24360.50	29.297	18.306
24420.50	29.405	18.414
24480.50	29.424	18.433

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
24540.50	29.435	18.445
24600.50	29.444	18.453
24660.50	29.450	18.459
24720.50	29.461	18.470
24780.50	29.469	18.479
24840.50	29.476	18.486
24900.50	29.482	18.491
24960.50	29.490	18.500
25020.50	29.494	18.503
25080.50	29.497	18.506
25140.50	29.504	18.513
25200.50	29.502	18.512
25260.50	29.498	18.507
25320.50	29.492	18.501
25380.50	29.494	18.504
25440.50	29.489	18.498
25500.50	29.490	18.499
25560.50	29.490	18.499
25620.50	29.487	18.496
25680.50	29.487	18.496
25740.50	29.487	18.496
25800.50	29.488	18.497
25860.50	29.500	18.509
25920.50	29.522	18.531
25980.50	29.544	18.554
26040.50	29.553	18.563
26100.50	29.555	18.564
26160.50	29.557	18.567
26220.50	29.561	18.570
26280.50	29.557	18.566
26340.50	29.557	18.567
26400.50	29.562	18.571
26460.50	29.573	18.582
26520.50	29.586	18.595
26580.50	29.591	18.600
26640.50	29.591	18.600
26700.50	29.594	18.603
26760.50	29.596	18.605
26820.50	29.592	18.601
26880.50	29.596	18.606
26940.50	29.594	18.603
27000.50	29.593	18.602
27060.50	29.599	18.608
27120.50	29.607	18.616
27180.50	29.612	18.622
27240.50	25.900	14.909
27300.50	29.092	18.101

Table I8 Recorded data in the observation well, BL-0102, during the long-term aquifer test in the pumping well, SPW20-001 (9 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
27360.50	29.349	18.358
27430.50	29.792	18.801
27480.50	29.832	18.841
27540.50	29.859	18.868
27600.50	29.867	18.876
27660.50	29.883	18.892
27720.50	29.899	18.908
27780.50	29.910	18.919
27840.50	29.916	18.925
27900.50	29.928	18.937
27960.50	29.936	18.945
28020.50	29.937	18.947
28080.50	29.948	18.957
28140.50	29.946	18.955
28200.50	29.929	18.938
28260.50	29.908	18.918
28320.50	29.899	18.908
28380.50	29.916	18.925
28440.50	29.919	18.928
28500.50	29.923	18.933
28560.50	29.917	18.926
28620.50	29.922	18.932
28680.50	29.915	18.924
28740.50	30.098	19.107
28800.50	29.911	18.920
28860.50	29.945	18.954
28920.50	29.964	18.973
28980.50	29.978	18.987
29040.50	29.980	18.989
29100.50	29.988	18.997
29160.50	29.989	18.998
29220.50	29.995	19.005
29280.50	30.004	19.013
29340.50	30.010	19.020
29400.50	30.010	19.019
29460.50	30.015	19.024
29520.50	30.021	19.030
29580.50	30.020	19.030
29640.50	30.026	19.035
29700.50	30.019	19.028
29760.50	30.020	19.029
29820.50	30.020	19.029
29880.50	30.018	19.027
29940.50	30.022	19.032
30000.50	30.017	19.026
30060.50	30.013	19.023
30120.50	30.015	19.024

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
30180.50	30.053	19.063
30240.50	30.242	19.251
30300.50	30.277	19.286
30360.50	30.298	19.308
30420.50	30.312	19.321
30480.50	30.324	19.333
30540.50	30.331	19.340
30600.50	30.336	19.345
30660.50	30.336	19.345
30720.50	30.342	19.351
30780.50	30.346	19.355
30840.50	30.349	19.358
30900.50	30.346	19.355
30960.50	30.355	19.364
31020.50	30.361	19.371
31080.50	30.366	19.376
31140.50	30.363	19.372
31200.50	30.368	19.378
31260.50	30.371	19.380
31320.50	30.376	19.385
31380.50	30.388	19.398
31440.50	30.391	19.400
31500.50	30.388	19.397
31560.50	28.898	17.907
31620.50	30.230	19.239
31680.50	30.275	19.285
31740.50	30.302	19.311
31800.50	30.316	19.325
31860.50	30.331	19.340
31920.50	30.335	19.345
31980.50	30.343	19.352
32040.50	30.343	19.352
32100.50	30.345	19.354
32160.50	30.344	19.354
32220.50	30.349	19.358
32280.50	30.350	19.359
32340.50	30.348	19.357
32400.50	30.356	19.365
32460.50	30.363	19.372
32520.50	30.363	19.372
32580.50	30.363	19.372
32640.50	30.363	19.372
32700.50	30.360	19.369
32760.50	30.360	19.369
32820.50	30.357	19.367
32880.50	30.361	19.371
32940.50	30.356	19.365

Table I8 Recorded data in the observation well, BL-0102, during the long-term aquifer test in the pumping well, SPW20-001 (10 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
33000.50	30.354	19.363
33060.50	30.354	19.363
33120.50	30.355	19.364
33180.50	30.370	19.379
33240.50	30.377	19.386
33300.50	30.379	19.388
33360.50	30.386	19.396
33420.50	30.393	19.402
33480.50	30.390	19.400
33540.50	30.396	19.405
33600.50	30.393	19.402
33660.50	30.391	19.400
33720.50	30.395	19.404
33780.50	30.397	19.407
33840.50	30.405	19.414
33900.50	30.407	19.416
33960.50	30.407	19.416
34020.50	30.411	19.420
34080.50	30.413	19.422
34140.50	30.415	19.424
34200.50	30.415	19.424
34260.50	30.415	19.424
34320.50	30.409	19.419
34380.50	30.404	19.413
34440.50	30.398	19.407
34500.50	30.391	19.400
34560.50	30.394	19.403
34620.50	30.406	19.416
34680.50	30.410	19.419
34740.50	30.392	19.402
34800.50	30.394	19.403
34860.50	30.395	19.404
34920.50	30.394	19.403
34980.50	30.390	19.400
35040.50	30.386	19.396
35100.50	30.381	19.391
35160.50	30.378	19.387
35220.50	30.377	19.387
35280.50	30.377	19.386
35340.50	30.378	19.388
35400.50	30.385	19.394
35460.50	30.390	19.399
35520.50	30.390	19.399
35580.50	30.401	19.410
35640.50	30.399	19.409
35700.50	30.400	19.409
35760.50	30.396	19.405

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
35820.50	30.392	19.401
35880.50	30.333	19.342
35940.50	30.361	19.370
36000.50	30.370	19.379
36060.50	30.379	19.388
36120.50	30.391	19.400
36180.50	30.397	19.407
36240.50	30.398	19.407
36300.50	30.410	19.420
36360.50	30.410	19.419
36420.50	30.409	19.418
36480.50	30.405	19.414
36540.50	30.402	19.411
36600.50	30.397	19.406
36660.50	30.390	19.399
36720.50	30.391	19.400
36780.50	30.394	19.403
36840.50	30.394	19.404
36900.50	30.397	19.406
36960.50	30.403	19.412
37020.50	30.405	19.414
37080.50	30.407	19.417
37140.50	30.411	19.420
37200.50	30.407	19.416
37260.50	30.407	19.416
37320.50	30.399	19.408
37380.50	30.534	19.544
37440.50	30.541	19.550
37500.50	30.551	19.560
37560.50	30.559	19.568
37620.50	30.570	19.579
37680.50	30.577	19.586
37740.50	30.586	19.595
37800.50	30.596	19.606
37860.50	30.601	19.610
37920.50	30.599	19.608
37980.50	30.594	19.603
38040.50	30.583	19.592
38100.50	30.575	19.584
38160.50	30.581	19.591
38220.50	30.583	19.592
38280.50	30.585	19.595
38340.50	30.578	19.587
38400.50	30.573	19.582
38460.50	30.577	19.587
38520.50	30.577	19.587
38580.50	30.577	19.586

Table I8 Recorded data in the observation well, BL-0102, during the long-term aquifer test in the pumping well, SPW20-001 (11 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
38640.50	30.578	19.587
38700.50	30.579	19.588
38760.50	30.567	19.576
38820.50	30.859	19.868
38880.50	31.115	20.124
38940.50	31.187	20.196
39000.50	31.222	20.232
39060.50	31.243	20.252
39120.50	31.264	20.273
39180.50	31.277	20.286
39240.50	31.295	20.304
39300.50	31.303	20.312
39360.50	31.310	20.319
39420.50	31.310	20.319
39480.50	31.317	20.326
39540.50	31.321	20.330
39600.50	31.326	20.335
39660.50	31.324	20.333
39720.50	31.324	20.333
39780.50	31.329	20.339
39840.50	31.335	20.344
39900.50	31.342	20.351
39960.50	31.347	20.356
40020.50	31.364	20.373
40080.50	31.379	20.388
40140.50	31.389	20.399
40200.50	31.388	20.397
40260.50	31.385	20.394
40320.50	31.384	20.393
40380.50	31.392	20.401
40440.50	31.399	20.408
40500.50	31.400	20.409
40560.50	31.407	20.416
40620.50	31.413	20.422
40680.50	31.416	20.426
40740.50	31.414	20.423
40800.50	31.411	20.421
40860.50	31.405	20.414
40920.50	31.400	20.409
40980.50	31.389	20.399
41040.50	31.386	20.395
41100.50	31.371	20.380
41160.50	31.368	20.377
41220.50	31.364	20.373
41280.50	31.367	20.377
41340.50	31.378	20.387
41400.50	31.380	20.390

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
41460.50	31.386	20.396

Table I9 Recovery data in the observation well, BL-0102, after the long-term aquifer test in the pumping well, SPW20-001 (1 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
0 (Start)	31.386	0.000
2.00	31.387	-0.001
7.00	31.388	-0.002
12.00	31.388	-0.002
17.00	31.388	-0.002
22.00	31.390	-0.004
27.00	31.389	-0.003
32.00	31.390	-0.005
37.00	31.389	-0.004
42.00	31.391	-0.006
47.00	31.392	-0.007
52.00	31.390	-0.005
57.00	31.392	-0.006
62.00	29.699	1.686
67.00	28.431	2.955
72.00	27.608	3.778
77.00	26.996	4.390
82.00	26.494	4.892
87.00	26.075	5.311
92.00	25.722	5.664
97.00	25.413	5.973
102.00	25.151	6.235
107.00	24.924	6.461
112.00	24.731	6.654
117.00	24.555	6.831
122.00	24.410	6.976
127.00	24.274	7.111
132.00	24.145	7.241
137.00	24.022	7.364
142.00	23.908	7.478
147.00	23.803	7.583
152.00	23.705	7.681
157.00	23.611	7.775
162.00	23.525	7.860
167.00	23.445	7.940
172.00	23.365	8.021
177.00	23.292	8.094
182.00	23.217	8.169
187.00	23.150	8.236
192.00	23.083	8.302
197.00	23.020	8.366
202.00	22.958	8.427
207.00	22.902	8.484
212.00	22.846	8.540
217.00	22.790	8.595
222.00	22.737	8.648
227.00	22.684	8.702
232.00	22.631	8.754
237.00	22.580	8.806
242.00	22.531	8.855
247.00	22.482	8.903
252.00	22.436	8.950
257.00	22.391	8.995
262.00	22.347	9.039
267.00	22.303	9.083
272.00	22.262	9.123
277.00	22.220	9.165
282.00	22.180	9.205
287.00	22.140	9.246
292.00	22.101	9.285
297.00	22.061	9.325
302.00	22.023	9.363
307.00	21.985	9.400
312.00	21.948	9.438
317.00	21.912	9.474
322.00	21.875	9.511
327.00	21.840	9.545
332.00	21.806	9.580
337.00	21.771	9.614
342.00	21.737	9.649
347.00	21.706	9.680
352.00	21.672	9.713
357.00	21.641	9.744
362.00	21.609	9.777
367.00	21.577	9.809
372.00	21.546	9.840
377.00	21.515	9.871
382.00	21.485	9.901
387.00	21.453	9.932
392.00	21.423	9.963
397.00	21.393	9.993
402.00	21.361	10.025
407.00	21.332	10.054
412.00	21.303	10.083
417.00	21.272	10.114
422.00	21.242	10.144
427.00	21.213	10.173
432.00	21.183	10.203
437.00	21.155	10.231
442.00	21.126	10.260
447.00	21.097	10.288
452.00	21.069	10.317
457.00	21.040	10.345
462.00	21.012	10.374

Table I9 Recovery data in the observation well, BL-0102, after the long-term aquifer test in the pumping well, SPW20-001 (2 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
467.00	20.985	10.401
472.00	20.957	10.429
477.00	20.929	10.457
482.00	20.903	10.483
487.00	20.875	10.511
492.00	20.847	10.538
497.00	20.820	10.566
502.00	20.793	10.593
507.00	20.766	10.620
512.00	20.740	10.646
517.00	20.713	10.673
522.00	20.688	10.698
527.00	20.660	10.726
532.00	20.633	10.752
537.00	20.607	10.779
542.00	20.581	10.805
547.00	20.556	10.829
552.00	20.532	10.854
557.00	20.507	10.879
562.00	20.481	10.905
567.00	20.456	10.929
572.00	20.431	10.955
577.00	20.406	10.980
582.00	20.382	11.004
587.00	20.357	11.029
592.00	20.333	11.053
597.00	20.309	11.077
602.00	20.285	11.100
607.00	20.261	11.125
612.00	20.237	11.148
617.00	20.214	11.172
622.00	20.192	11.193
627.00	20.167	11.218
632.00	20.145	11.240
637.00	20.124	11.262
642.00	20.101	11.285
647.00	20.079	11.306
652.00	20.057	11.328
657.00	20.035	11.350
662.00	20.015	11.371
667.00	19.994	11.392
672.00	19.974	11.411
677.00	19.954	11.432
682.00	19.933	11.452
687.00	19.912	11.473
692.00	19.892	11.493
697.00	19.874	11.512

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
702.00	19.853	11.532
707.00	19.833	11.552
712.00	19.812	11.573
717.00	19.794	11.592
722.00	19.775	11.611
727.00	19.754	11.632
732.00	19.734	11.651
737.00	19.715	11.671
742.00	19.697	11.689
747.00	19.677	11.708
752.00	19.659	11.726
757.00	19.641	11.745
762.00	19.623	11.763
767.00	19.606	11.780
772.00	19.589	11.797
777.00	19.571	11.815
782.00	19.553	11.832
787.00	19.536	11.850
792.00	19.521	11.865
797.00	19.505	11.881
802.00	19.488	11.897
807.00	19.472	11.914
812.00	19.456	11.930
817.00	19.440	11.946
822.00	19.424	11.962
827.00	19.409	11.977
832.00	19.394	11.992
837.00	19.379	12.006
842.00	19.364	12.022
847.00	19.350	12.036
852.00	19.336	12.050
857.00	19.321	12.065
862.00	19.306	12.079
867.00	19.292	12.093
872.00	19.279	12.106
877.00	19.265	12.121
882.00	19.252	12.134
887.00	19.239	12.147
892.00	19.226	12.160
897.00	19.213	12.173
902.00	19.201	12.185
907.00	19.188	12.197
912.00	19.176	12.209
917.00	19.163	12.222
922.00	19.152	12.234
927.00	19.140	12.245
932.00	19.130	12.256

Table I9 Recovery data in the observation well, BL-0102, after the long-term aquifer test in the pumping well, SPW20-001 (3 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
937.00	19.117	12.269
942.00	19.106	12.279
947.00	19.096	12.290
952.00	19.085	12.301
957.00	19.073	12.312
962.00	19.062	12.323
967.00	19.051	12.334
972.00	19.041	12.345
977.00	19.031	12.355
982.00	19.021	12.365
987.00	19.011	12.375
992.00	19.002	12.384
997.00	18.993	12.393
1002.00	18.982	12.404
1007.00	18.973	12.413
1012.00	18.964	12.422
1017.00	18.954	12.432
1022.00	18.945	12.440
1027.00	18.936	12.449
1032.00	18.927	12.459
1037.00	18.917	12.469
1042.00	18.908	12.478
1047.00	18.899	12.486
1052.00	18.890	12.495
1057.00	18.880	12.506
1062.00	18.870	12.515
1067.00	18.861	12.525
1072.00	18.853	12.533
1077.00	18.843	12.543
1082.00	18.834	12.551
1087.00	18.825	12.560
1092.00	18.816	12.569
1097.00	18.807	12.578
1102.00	18.799	12.586
1107.00	18.790	12.596
1112.00	18.781	12.605
1117.00	18.774	12.611
1122.00	18.764	12.621
1127.00	18.756	12.630
1132.00	18.747	12.639
1137.00	18.738	12.647
1142.00	18.731	12.655
1147.00	18.723	12.663
1152.00	18.714	12.672
1157.00	18.706	12.680
1162.00	18.699	12.687
1167.00	18.690	12.696

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
1172.00	18.683	12.703
1177.00	18.674	12.711
1182.00	18.668	12.718
1187.00	18.661	12.725
1192.00	18.652	12.734
1197.00	18.645	12.741
1202.00	18.638	12.748
1207.00	18.630	12.756
1212.00	18.623	12.762
1217.00	18.616	12.770
1222.00	18.608	12.778
1227.00	18.601	12.785
1232.00	18.594	12.791
1237.00	18.586	12.800
1242.00	18.580	12.806
1247.00	18.573	12.813
1252.00	18.566	12.820
1257.00	18.560	12.826
1262.00	18.553	12.833
1267.00	18.547	12.839
1272.00	18.540	12.846
1277.00	18.533	12.852
1282.00	18.528	12.857
1287.00	18.522	12.863
1292.00	18.515	12.871
1297.00	18.509	12.877
1302.00	18.502	12.884
1307.00	18.495	12.890
1312.00	18.489	12.896
1317.00	18.483	12.902
1322.00	18.477	12.909
1327.00	18.471	12.915
1332.00	18.465	12.920
1337.00	18.459	12.927
1342.00	18.454	12.931
1347.00	18.448	12.938
1352.00	18.441	12.944
1357.00	18.436	12.950
1362.00	18.430	12.956
1367.00	18.423	12.962
1372.00	18.418	12.968
1377.00	18.413	12.973
1382.00	18.406	12.979
1387.00	18.401	12.985
1392.00	18.396	12.990
1397.00	18.390	12.995
1402.00	18.384	13.002

Table I9 Recovery data in the observation well, BL-0102, after the long-term aquifer test in the pumping well, SPW20-001 (4 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
1407.00	18.379	13.007
1412.00	18.373	13.013
1417.00	18.368	13.018
1422.00	18.362	13.023
1427.00	18.356	13.029
1432.00	18.352	13.034
1437.00	18.345	13.040
1467.00	18.312	13.074
1497.00	18.280	13.105
1527.00	18.246	13.139
1557.00	18.214	13.171
1587.00	18.180	13.206
1617.00	18.149	13.237
1647.00	18.116	13.269
1677.00	18.086	13.300
1707.00	18.053	13.332
1737.00	18.024	13.361
1767.00	17.995	13.391
1797.00	17.966	13.420
1827.00	17.938	13.448
1857.00	17.914	13.472
1887.00	17.889	13.496
1917.00	17.867	13.518
1947.00	17.847	13.539
1977.00	17.828	13.558
2007.00	17.807	13.579
2037.00	17.789	13.596
2067.00	17.773	13.612
2097.00	17.758	13.628
2127.00	17.742	13.643
2157.00	17.726	13.659
2187.00	17.714	13.672
2217.00	17.699	13.686
2247.00	17.684	13.702
2277.00	17.667	13.719
2307.00	17.651	13.735
2337.00	17.632	13.754
2367.00	17.617	13.768
2397.00	17.596	13.790
2427.00	17.577	13.809
2457.00	17.557	13.829
2487.00	17.540	13.846
2517.00	17.522	13.864
2547.00	17.503	13.882
2577.00	17.487	13.899
2607.00	17.468	13.918
2637.00	17.452	13.934
2667.00	17.436	13.950
2697.00	17.421	13.965
2727.00	17.405	13.981
2757.00	17.387	13.999
2787.00	17.375	14.011
2817.00	17.363	14.023
2847.00	17.353	14.032
2877.00	17.341	14.045
2907.00	17.329	14.057
2937.00	17.316	14.069
2967.00	17.305	14.081
2997.00	17.298	14.087
3027.00	17.284	14.101
3057.00	17.270	14.116
3082.00	17.268	14.118

Table I10 Recorded data in the observation well, BL-0104, during the long-term aquifer test in the pumping well, SPW20-001 (1 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
0 (Static)	5.649	0.000
0.50	5.610	-0.039
5.50	5.638	-0.011
10.50	5.741	0.093
15.50	5.863	0.214
20.50	5.991	0.342
25.50	6.124	0.476
30.50	6.256	0.608
35.50	6.383	0.735
40.50	6.503	0.854
45.50	6.616	0.968
50.50	6.713	1.064
55.50	6.767	1.118
60.50	6.797	1.149
65.50	6.822	1.173
70.50	6.842	1.194
75.50	6.861	1.213
80.50	6.866	1.218
85.50	6.877	1.228
90.50	6.891	1.243
95.50	6.908	1.260
100.50	6.926	1.277
105.50	6.939	1.290
110.50	6.951	1.303
115.50	6.964	1.315
120.50	6.973	1.325
125.50	6.981	1.332
130.50	6.994	1.345
135.50	7.009	1.360
140.50	7.022	1.373
145.50	7.033	1.384
150.50	7.045	1.397
155.50	7.055	1.406
160.50	7.064	1.415
165.50	7.074	1.425
170.50	7.087	1.438
175.50	7.095	1.447
180.50	7.103	1.454
185.50	7.111	1.462
190.50	7.118	1.470
195.50	7.123	1.475
200.50	7.134	1.485
205.50	7.144	1.495
210.50	7.156	1.507
215.50	7.167	1.519
220.50	7.179	1.530
225.50	7.188	1.539
230.50	7.198	1.550
235.50	7.208	1.560
240.50	7.217	1.569
245.50	7.229	1.581
250.50	7.238	1.590
255.50	7.242	1.594
260.50	7.248	1.599
265.50	7.255	1.607
270.50	7.264	1.615
275.50	7.271	1.622
280.50	7.281	1.633
285.50	7.291	1.642
290.50	7.302	1.653
295.50	7.309	1.660
300.50	7.316	1.668
305.50	7.326	1.678
310.50	7.337	1.689
315.50	7.344	1.695
320.50	7.350	1.702
325.50	7.355	1.707
330.50	7.360	1.711
335.50	7.366	1.717
340.50	7.379	1.731
345.50	7.406	1.758
350.50	7.422	1.774
355.50	7.417	1.768
360.50	7.402	1.754
365.50	7.397	1.749
370.50	7.397	1.749
375.50	7.402	1.754
380.50	7.406	1.757
385.50	7.408	1.759
390.50	7.411	1.762
395.50	7.418	1.769
400.50	7.425	1.776
405.50	7.431	1.782
410.50	7.439	1.791
415.50	7.448	1.799
420.50	7.455	1.806
425.50	7.461	1.813
430.50	7.467	1.818
435.50	7.472	1.823
440.50	7.476	1.827
445.50	7.480	1.832
450.50	7.485	1.836
455.50	7.487	1.838
460.50	7.489	1.841

Table I10 Recorded data in the observation well, BL-0104, during the long-term aquifer test in the pumping well, SPW20-001 (2 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
465.50	7.491	1.842
470.50	7.494	1.846
475.50	7.499	1.850
480.50	7.502	1.854
485.50	7.507	1.859
490.50	7.513	1.865
495.50	7.524	1.876
500.50	7.532	1.884
505.50	7.539	1.890
510.50	7.544	1.896
515.50	7.551	1.903
520.50	7.555	1.907
525.50	7.564	1.915
530.50	7.561	1.912
535.50	7.563	1.914
540.50	7.558	1.910
545.50	7.557	1.909
550.50	7.551	1.903
555.50	7.551	1.902
560.50	7.554	1.905
565.50	7.558	1.909
570.50	7.571	1.923
575.50	7.580	1.932
580.50	7.586	1.937
585.50	7.589	1.941
590.50	7.591	1.943
595.50	7.595	1.946
600.50	7.599	1.950
605.50	7.602	1.953
610.50	7.606	1.958
615.50	7.609	1.961
620.50	7.610	1.962
625.50	7.611	1.963
630.50	7.615	1.967
635.50	7.618	1.969
640.50	7.618	1.970
645.50	7.618	1.969
650.50	7.618	1.969
655.50	7.617	1.968
660.50	7.619	1.970
665.50	7.624	1.975
670.50	7.628	1.980
675.50	7.633	1.985
680.50	7.636	1.987
685.50	7.636	1.988
690.50	7.638	1.989
695.50	7.639	1.991
700.50	7.642	1.993
705.50	7.644	1.996
710.50	7.647	1.999
715.50	7.649	2.001
720.50	7.652	2.003
725.50	7.653	2.004
730.50	7.654	2.005
735.50	7.655	2.007
740.50	7.657	2.009
745.50	7.659	2.010
750.50	7.660	2.012
755.50	7.663	2.014
760.50	7.665	2.017
765.50	7.668	2.019
770.50	7.670	2.022
775.50	7.669	2.021
780.50	7.664	2.016
785.50	7.658	2.009
790.50	7.651	2.002
795.50	7.628	1.979
800.50	7.611	1.962
805.50	7.605	1.956
810.50	7.603	1.954
815.50	7.602	1.954
820.50	7.604	1.955
825.50	7.607	1.959
830.50	7.610	1.962
835.50	7.615	1.966
840.50	7.618	1.970
845.50	7.621	1.972
850.50	7.623	1.975
855.50	7.624	1.976
860.50	7.622	1.974
865.50	7.623	1.974
870.50	7.625	1.976
875.50	7.627	1.978
880.50	7.628	1.980
885.50	7.629	1.981
890.50	7.631	1.982
895.50	7.632	1.983
900.50	7.632	1.984
905.50	7.633	1.985
910.50	7.635	1.986
915.50	7.637	1.988
920.50	7.638	1.990
925.50	7.641	1.993
930.50	7.643	1.994

Table I10 Recorded data in the observation well, BL-0104, during the long-term aquifer test in the pumping well, SPW20-001 (3 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
935.50	7.646	1.997
940.50	7.648	1.999
945.50	7.650	2.002
950.50	7.652	2.004
955.50	7.654	2.005
960.50	7.655	2.006
965.50	7.656	2.008
970.50	7.658	2.009
975.50	7.659	2.011
980.50	7.662	2.014
985.50	7.664	2.016
990.50	7.668	2.019
995.50	7.670	2.022
1000.50	7.672	2.024
1005.50	7.675	2.026
1010.50	7.676	2.027
1015.50	7.678	2.029
1020.50	7.679	2.031
1025.50	7.681	2.033
1030.50	7.683	2.034
1035.50	7.685	2.037
1040.50	7.688	2.039
1045.50	7.691	2.042
1050.50	7.693	2.045
1055.50	7.686	2.038
1060.50	7.681	2.033
1065.50	7.680	2.031
1070.50	7.680	2.032
1075.50	7.682	2.034
1080.50	7.683	2.034
1085.50	7.685	2.037
1090.50	7.686	2.038
1095.50	7.688	2.039
1100.50	7.689	2.040
1105.50	7.689	2.041
1110.50	7.691	2.043
1115.50	7.693	2.044
1120.50	7.693	2.045
1125.50	7.695	2.047
1130.50	7.697	2.049
1135.50	7.698	2.050
1140.50	7.700	2.051
1145.50	7.701	2.052
1150.50	7.703	2.054
1155.50	7.704	2.055
1160.50	7.706	2.057
1165.50	7.707	2.058

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
1170.50	7.709	2.060
1175.50	7.711	2.062
1180.50	7.713	2.064
1185.50	7.713	2.065
1190.50	7.715	2.067
1195.50	7.717	2.068
1200.50	7.719	2.070
1205.50	7.719	2.071
1210.50	7.722	2.073
1215.50	7.722	2.074
1220.50	7.724	2.075
1225.50	7.725	2.076
1230.50	7.726	2.078
1235.50	7.727	2.079
1240.50	7.729	2.080
1245.50	7.729	2.081
1250.50	7.730	2.082
1255.50	7.732	2.084
1260.50	7.734	2.085
1265.50	7.734	2.085
1270.50	7.735	2.086
1275.50	7.736	2.087
1280.50	7.739	2.090
1285.50	7.739	2.091
1290.50	7.740	2.092
1295.50	7.741	2.092
1300.50	7.743	2.095
1305.50	7.745	2.096
1310.50	7.745	2.096
1315.50	7.747	2.098
1320.50	7.748	2.100
1325.50	7.748	2.100
1330.50	7.751	2.102
1335.50	7.753	2.104
1340.50	7.755	2.106
1345.50	7.756	2.108
1350.50	7.758	2.109
1355.50	7.759	2.110
1360.50	7.761	2.112
1365.50	7.762	2.114
1370.50	7.763	2.114
1375.50	7.764	2.116
1380.50	7.766	2.117
1385.50	7.769	2.120
1390.50	7.771	2.122
1395.50	7.770	2.122
1400.50	7.770	2.122

Table I10 Recorded data in the observation well, BL-0104, during the long-term aquifer test in the pumping well, SPW20-001 (4 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
1405.50	7.770	2.122
1410.50	7.770	2.122
1415.50	7.771	2.122
1420.50	7.771	2.122
1425.50	7.771	2.123
1430.50	7.773	2.124
1435.50	7.772	2.123
1440.50	7.773	2.125
1470.50	7.780	2.131
1500.50	7.787	2.138
1530.50	7.793	2.144
1560.50	7.800	2.151
1590.50	7.800	2.151
1620.50	7.804	2.156
1650.50	7.812	2.164
1680.50	7.821	2.172
1710.50	7.833	2.184
1740.50	7.842	2.193
1770.50	7.850	2.201
1800.50	7.858	2.210
1830.50	7.869	2.221
1860.50	7.878	2.229
1890.50	7.887	2.238
1920.50	7.895	2.247
1950.50	7.905	2.256
1980.50	7.911	2.263
2010.50	7.920	2.272
2040.50	7.925	2.276
2070.50	7.930	2.282
2100.50	7.935	2.286
2130.50	7.938	2.289
2160.50	7.940	2.291
2190.50	7.942	2.293
2220.50	7.945	2.296
2250.50	7.949	2.300
2280.50	7.959	2.310
2310.50	7.961	2.313
2340.50	7.964	2.316
2370.50	7.968	2.319
2400.50	7.971	2.322
2430.50	7.973	2.325
2460.50	7.980	2.331
2490.50	7.982	2.334
2520.50	7.982	2.334
2550.50	7.986	2.338
2580.50	7.993	2.344
2610.50	8.001	2.352

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
2640.50	8.005	2.357
2670.50	8.009	2.361
2700.50	8.013	2.365
2730.50	8.016	2.368
2760.50	8.019	2.370
2790.50	8.031	2.382
2820.50	8.035	2.387
2850.50	8.038	2.390
2880.50	8.019	2.370
2910.50	8.020	2.372
2940.50	8.025	2.376
2970.50	8.027	2.378
3000.50	8.029	2.380
3030.50	8.030	2.382
3060.50	8.033	2.385
3090.50	8.036	2.387
3120.50	8.040	2.391
3150.50	8.043	2.394
3180.50	8.047	2.398
3210.50	8.053	2.404
3240.50	8.058	2.410
3270.50	8.066	2.417
3300.50	8.076	2.427
3330.50	8.082	2.433
3360.50	8.087	2.438
3390.50	8.092	2.443
3420.50	8.096	2.448
3480.50	8.104	2.455
3540.50	8.082	2.433
3600.50	8.086	2.437
3660.50	8.091	2.442
3720.50	8.094	2.445
3780.50	8.096	2.448
3840.50	8.099	2.450
3900.50	8.104	2.455
3960.50	8.108	2.459
4020.50	8.114	2.465
4080.50	8.121	2.473
4140.50	8.129	2.480
4200.50	8.138	2.489
4260.50	8.150	2.502
4320.50	8.159	2.511
4380.50	8.168	2.520
4440.50	8.174	2.526
4500.50	8.179	2.530
4560.50	8.182	2.533
4620.50	8.191	2.542

Table I10 Recorded data in the observation well, BL-0104, during the long-term aquifer test in the pumping well, SPW20-001 (5 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
4680.50	8.201	2.553
4740.50	8.207	2.559
4800.50	8.215	2.567
4860.50	8.222	2.573
4920.50	8.231	2.583
4980.50	8.237	2.589
5040.50	8.242	2.594
5100.50	8.245	2.596
5160.50	8.250	2.601
5220.50	8.252	2.604
5280.50	8.257	2.609
5340.50	8.261	2.613
5400.50	8.267	2.618
5460.50	8.270	2.621
5520.50	8.273	2.624
5580.50	8.278	2.630
5640.50	8.285	2.636
5700.50	8.293	2.645
5760.50	8.301	2.653
5820.50	8.315	2.667
5880.50	8.319	2.671
5940.50	8.324	2.676
6000.50	8.330	2.681
6060.50	8.332	2.683
6120.50	8.336	2.687
6180.50	8.338	2.689
6240.50	8.334	2.685
6300.50	8.336	2.688
6360.50	8.344	2.696
6420.50	8.356	2.707
6480.50	8.361	2.712
6540.50	8.366	2.717
6600.50	8.366	2.718
6660.50	8.370	2.721
6720.50	8.372	2.724
6780.50	8.368	2.720
6840.50	8.370	2.722
6900.50	8.372	2.724
6960.50	8.374	2.725
7020.50	8.376	2.727
7080.50	8.380	2.731
7140.50	8.384	2.735
7200.50	8.389	2.741
7260.50	8.395	2.747
7320.50	8.400	2.751
7380.50	8.406	2.757
7440.50	8.411	2.763

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
7500.50	8.417	2.768
7560.50	8.421	2.772
7620.50	8.424	2.775
7680.50	8.428	2.779
7740.50	8.432	2.783
7800.50	8.436	2.788
7860.50	8.440	2.792
7920.50	8.445	2.796
7980.50	8.450	2.801
8040.50	8.454	2.806
8100.50	8.458	2.810
8160.50	8.463	2.814
8220.50	8.466	2.818
8280.50	8.470	2.822
8340.50	8.475	2.827
8400.50	8.477	2.829
8460.50	8.481	2.832
8520.50	8.484	2.836
8580.50	8.489	2.841
8640.50	8.493	2.845
8700.50	8.499	2.850
8760.50	8.507	2.859
8820.50	8.514	2.865
8880.50	8.521	2.872
8940.50	8.525	2.877
9000.50	8.531	2.883
9060.50	8.535	2.887
9120.50	8.538	2.890
9180.50	8.540	2.891
9240.50	8.544	2.895
9300.50	8.547	2.899
9360.50	8.548	2.899
9420.50	8.553	2.904
9480.50	8.559	2.910
9540.50	8.562	2.913
9600.50	8.565	2.917
9660.50	8.561	2.913
9720.50	8.576	2.928
9780.50	8.577	2.928
9840.50	8.576	2.928
9900.50	8.577	2.928
9960.50	8.578	2.929
10020.50	8.582	2.933
10080.50	8.585	2.937
10140.50	8.588	2.939
10200.50	8.593	2.944
10260.50	8.600	2.951

Table I10 Recorded data in the observation well, BL-0104, during the long-term aquifer test in the pumping well, SPW20-001 (6 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
10320.50	8.605	2.957
10380.50	8.608	2.959
10440.50	8.611	2.962
10500.50	8.613	2.965
10560.50	8.614	2.965
10620.50	8.614	2.966
10680.50	8.617	2.969
10740.50	8.620	2.971
10800.50	8.624	2.975
10860.50	8.629	2.980
10920.50	8.634	2.986
10980.50	8.640	2.992
11040.50	8.647	2.999
11100.50	8.651	3.003
11160.50	8.654	3.006
11220.50	8.655	3.006
11280.50	8.654	3.006
11340.50	8.653	3.005
11400.50	8.654	3.005
11460.50	8.656	3.007
11520.50	8.660	3.011
11580.50	8.666	3.017
11640.50	8.673	3.024
11700.50	8.680	3.031
11760.50	8.685	3.037
11820.50	8.689	3.040
11880.50	8.693	3.044
11940.50	8.694	3.045
12000.50	8.694	3.045
12060.50	8.694	3.045
12120.50	8.693	3.044
12180.50	8.693	3.045
12240.50	8.695	3.046
12300.50	8.697	3.048
12360.50	8.700	3.052
12420.50	8.706	3.058
12480.50	8.712	3.063
12540.50	8.719	3.070
12600.50	8.723	3.074
12660.50	8.724	3.075
12720.50	8.724	3.075
12780.50	8.723	3.074
12840.50	8.723	3.074
12900.50	8.684	3.036
12960.50	8.788	3.140
13020.50	8.876	3.227
13080.50	8.904	3.255
13140.50	8.910	3.261
13200.50	8.915	3.266
13260.50	8.920	3.271
13320.50	8.925	3.277
13380.50	8.929	3.280
13440.50	8.932	3.283
13500.50	8.935	3.287
13560.50	8.939	3.290
13620.50	8.941	3.293
13680.50	8.946	3.297
13740.50	8.953	3.304
13800.50	8.961	3.312
13860.50	8.970	3.321
13920.50	8.979	3.330
13980.50	8.986	3.337
14040.50	8.994	3.345
14100.50	9.013	3.365
14160.50	9.028	3.380
14220.50	9.037	3.388
14280.50	9.046	3.397
14340.50	9.059	3.411
14400.50	9.067	3.419
14460.50	9.077	3.429
14520.50	9.082	3.434
14580.50	9.090	3.441
14640.50	9.099	3.451
14700.50	9.110	3.461
14760.50	9.120	3.471
14820.50	9.124	3.475
14880.50	9.127	3.479
14940.50	9.131	3.482
15000.50	9.133	3.484
15060.50	9.134	3.486
15120.50	9.138	3.489
15180.50	9.143	3.495
15240.50	9.153	3.505
15300.50	9.166	3.518
15360.50	9.176	3.528
15420.50	9.187	3.538
15480.50	9.194	3.546
15540.50	9.196	3.548
15600.50	9.196	3.548
15660.50	9.195	3.547
15720.50	9.196	3.547
15780.50	9.195	3.546
15840.50	9.196	3.548
15900.50	9.201	3.552

Table I10 Recorded data in the observation well, BL-0104, during the long-term aquifer test in the pumping well, SPW20-001 (7 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
15960.50	9.209	3.561
16020.50	9.218	3.570
16080.50	9.228	3.579
16140.50	9.237	3.588
16200.50	9.247	3.598
16260.50	9.252	3.603
16320.50	9.258	3.609
16380.50	9.259	3.610
16440.50	9.263	3.614
16500.50	9.263	3.614
16560.50	9.264	3.615
16620.50	9.266	3.617
16680.50	9.271	3.622
16740.50	9.278	3.629
16800.50	9.286	3.638
16860.50	9.296	3.647
16920.50	9.303	3.654
16980.50	9.313	3.665
17040.50	9.309	3.660
17100.50	9.313	3.665
17160.50	9.323	3.675
17220.50	9.322	3.674
17280.50	9.325	3.676
17340.50	9.322	3.674
17400.50	9.325	3.677
17460.50	9.331	3.683
17520.50	9.338	3.690
17580.50	9.346	3.697
17640.50	9.344	3.696
17700.50	9.349	3.700
17760.50	9.350	3.701
17820.50	9.345	3.696
17880.50	9.341	3.692
17940.50	9.333	3.684
18000.50	9.335	3.686
18060.50	9.336	3.687
18120.50	9.332	3.683
18180.50	9.333	3.684
18240.50	9.297	3.649
18300.50	9.339	3.691
18360.50	9.366	3.718
18420.50	9.393	3.745
18480.50	9.402	3.753
18540.50	9.410	3.761
18600.50	9.416	3.767
18660.50	9.421	3.773
18720.50	9.424	3.775

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
18780.50	9.431	3.782
18840.50	9.443	3.795
18900.50	9.456	3.808
18960.50	9.471	3.822
19020.50	9.485	3.836
19080.50	9.496	3.848
19140.50	9.510	3.861
19200.50	9.518	3.870
19260.50	9.524	3.875
19320.50	9.529	3.880
19380.50	9.533	3.884
19440.50	9.532	3.883
19500.50	9.533	3.885
19560.50	9.537	3.888
19620.50	9.544	3.895
19680.50	9.558	3.909
19740.50	9.568	3.920
19800.50	9.576	3.927
19860.50	9.585	3.937
19920.50	9.588	3.939
19980.50	9.590	3.941
20040.50	9.587	3.938
20100.50	9.586	3.938
20160.50	9.580	3.932
20220.50	9.582	3.933
20280.50	9.584	3.935
20340.50	9.585	3.937
20400.50	9.593	3.945
20460.50	9.600	3.952
20520.50	9.607	3.958
20580.50	9.615	3.967
20640.50	9.622	3.974
20700.50	9.639	3.990
20760.50	9.658	4.009
20820.50	9.660	4.011
20880.50	9.664	4.016
20940.50	9.666	4.018
21000.50	9.660	4.011
21060.50	9.662	4.014
21120.50	9.665	4.016
21180.50	9.673	4.025
21240.50	9.684	4.035
21300.50	9.693	4.045
21360.50	9.699	4.050
21420.50	9.703	4.054
21480.50	9.709	4.060
21540.50	9.712	4.063

Table I10 Recorded data in the observation well, BL-0104, during the long-term aquifer test in the pumping well, SPW20-001 (8 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
21600.50	9.714	4.066
21660.50	9.709	4.060
21720.50	9.716	4.068
21780.50	9.722	4.073
21840.50	9.725	4.077
21900.50	9.731	4.083
21960.50	9.737	4.089
22020.50	9.744	4.095
22080.50	9.748	4.100
22140.50	9.749	4.100
22200.50	9.750	4.101
22260.50	9.742	4.094
22320.50	9.739	4.091
22380.50	9.732	4.083
22440.50	9.723	4.074
22500.50	9.720	4.072
22560.50	9.723	4.075
22620.50	9.731	4.082
22680.50	9.739	4.090
22740.50	9.741	4.093
22800.50	9.742	4.094
22860.50	9.748	4.099
22920.50	9.752	4.103
22980.50	9.754	4.105
23040.50	9.755	4.106
23100.50	9.761	4.113
23160.50	9.773	4.125
23220.50	9.780	4.132
23280.50	9.783	4.134
23340.50	9.790	4.141
23400.50	9.796	4.148
23460.50	9.805	4.157
23520.50	9.813	4.165
23580.50	9.816	4.168
23640.50	9.820	4.171
23700.50	9.820	4.172
23760.50	9.819	4.171
23820.50	9.820	4.171
23880.50	9.820	4.171
23940.50	9.821	4.172
24000.50	9.823	4.175
24060.50	9.826	4.177
24120.50	9.830	4.181
24180.50	9.834	4.185
24240.50	9.837	4.188
24300.50	9.833	4.185
24360.50	9.813	4.165

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
24420.50	9.812	4.163
24480.50	9.812	4.163
24540.50	9.821	4.173
24600.50	9.827	4.178
24660.50	9.831	4.183
24720.50	9.836	4.188
24780.50	9.845	4.196
24840.50	9.857	4.208
24900.50	9.863	4.214
24960.50	9.874	4.226
25020.50	9.883	4.234
25080.50	9.888	4.239
25140.50	9.891	4.242
25200.50	9.892	4.244
25260.50	9.891	4.242
25320.50	9.890	4.241
25380.50	9.891	4.243
25440.50	9.891	4.242
25500.50	9.893	4.244
25560.50	9.895	4.247
25620.50	9.897	4.248
25680.50	9.898	4.250
25740.50	9.900	4.252
25800.50	9.903	4.254
25860.50	9.905	4.256
25920.50	9.903	4.254
25980.50	9.903	4.255
26040.50	9.905	4.256
26100.50	9.901	4.253
26160.50	9.904	4.255
26220.50	9.964	4.315
26280.50	9.950	4.301
26340.50	9.953	4.304
26400.50	9.956	4.308
26460.50	9.958	4.310
26520.50	9.952	4.303
26580.50	9.955	4.306
26640.50	9.960	4.311
26700.50	9.961	4.312
26760.50	9.961	4.313
26820.50	9.962	4.313
26880.50	9.967	4.318
26940.50	9.969	4.320
27000.50	9.977	4.328
27060.50	9.978	4.329
27120.50	9.979	4.331
27180.50	9.983	4.334

Table I10 Recorded data in the observation well, BL-0104, during the long-term aquifer test in the pumping well, SPW20-001 (9 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
27240.50	9.942	4.293
27300.50	9.912	4.264
27360.50	9.929	4.281
27420.50	9.993	4.344
27480.50	10.015	4.366
27540.50	10.024	4.376
27600.50	10.032	4.383
27660.50	10.038	4.389
27720.50	10.044	4.396
27780.50	10.049	4.400
27840.50	10.056	4.407
27900.50	10.061	4.412
27960.50	10.066	4.417
28020.50	10.069	4.420
28080.50	10.070	4.422
28140.50	10.072	4.424
28200.50	10.070	4.421
28260.50	10.068	4.419
28320.50	10.067	4.418
28380.50	10.068	4.419
28440.50	10.069	4.420
28500.50	10.069	4.420
28560.50	10.069	4.420
28620.50	10.071	4.422
28680.50	10.071	4.422
28740.50	10.074	4.425
28800.50	10.080	4.431
28860.50	10.086	4.438
28920.50	10.093	4.445
28980.50	10.099	4.450
29040.50	10.102	4.453
29100.50	10.105	4.456
29160.50	10.107	4.459
29220.50	10.111	4.462
29280.50	10.112	4.464
29340.50	10.117	4.469
29400.50	10.120	4.471
29460.50	10.124	4.476
29520.50	10.129	4.480
29580.50	10.133	4.484
29640.50	10.137	4.488
29700.50	10.136	4.487
29760.50	10.139	4.490
29820.50	10.138	4.489
29880.50	10.138	4.490
29940.50	10.141	4.492
30000.50	10.139	4.490

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
30060.50	10.138	4.489
30120.50	10.140	4.491
30180.50	10.144	4.496
30240.50	10.158	4.509
30300.50	10.171	4.523
30360.50	10.180	4.532
30420.50	10.188	4.539
30480.50	10.192	4.543
30540.50	10.193	4.544
30600.50	10.198	4.550
30660.50	10.206	4.557
30720.50	10.209	4.561
30780.50	10.222	4.573
30840.50	10.228	4.579
30900.50	10.231	4.583
30960.50	10.235	4.586
31020.50	10.240	4.592
31080.50	10.243	4.594
31140.50	10.245	4.597
31200.50	10.247	4.598
31260.50	10.249	4.600
31320.50	10.246	4.597
31380.50	10.245	4.597
31440.50	10.244	4.596
31500.50	10.246	4.597
31560.50	10.246	4.598
31620.50	10.233	4.584
31680.50	10.236	4.587
31740.50	10.245	4.596
31800.50	10.253	4.605
31860.50	10.260	4.612
31920.50	10.266	4.618
31980.50	10.271	4.622
32040.50	10.273	4.625
32100.50	10.273	4.625
32160.50	10.276	4.628
32220.50	10.279	4.630
32280.50	10.281	4.633
32340.50	10.284	4.636
32400.50	10.289	4.640
32460.50	10.296	4.648
32520.50	10.302	4.654
32580.50	10.307	4.658
32640.50	10.310	4.662
32700.50	10.311	4.663
32760.50	10.312	4.663
32820.50	10.310	4.662

Table I10 Recorded data in the observation well, BL-0104, during the long-term aquifer test in the pumping well, SPW20-001 (10 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
32880.50	10.309	4.661
32940.50	10.307	4.658
33000.50	10.308	4.660
33060.50	10.310	4.662
33120.50	10.312	4.663
33180.50	10.315	4.666
33240.50	10.319	4.670
33300.50	10.324	4.676
33360.50	10.332	4.684
33420.50	10.337	4.689
33480.50	10.339	4.690
33540.50	10.340	4.692
33600.50	10.339	4.690
33660.50	10.338	4.689
33720.50	10.338	4.690
33780.50	10.338	4.690
33840.50	10.347	4.699
33900.50	10.353	4.705
33960.50	10.360	4.711
34020.50	10.366	4.717
34080.50	10.371	4.723
34140.50	10.376	4.727
34200.50	10.379	4.730
34260.50	10.378	4.730
34320.50	10.378	4.729
34380.50	10.376	4.727
34440.50	10.375	4.726
34500.50	10.379	4.731
34560.50	10.384	4.736
34620.50	10.388	4.739
34680.50	10.395	4.746
34740.50	10.397	4.749
34800.50	10.407	4.758
34860.50	10.410	4.762
34920.50	10.412	4.764
34980.50	10.409	4.760
35040.50	10.406	4.757
35100.50	10.403	4.755
35160.50	10.401	4.752
35220.50	10.400	4.751
35280.50	10.399	4.750
35340.50	10.402	4.753
35400.50	10.408	4.759
35460.50	10.415	4.766
35520.50	10.421	4.773
35580.50	10.428	4.780
35640.50	10.433	4.784

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
35700.50	10.433	4.785
35760.50	10.432	4.784
35820.50	10.432	4.783
35880.50	10.417	4.769
35940.50	10.419	4.771
36000.50	10.417	4.769
36060.50	10.422	4.774
36120.50	10.432	4.783
36180.50	10.439	4.790
36240.50	10.441	4.792
36300.50	10.449	4.800
36360.50	10.458	4.810
36420.50	10.463	4.815
36480.50	10.461	4.812
36540.50	10.459	4.810
36600.50	10.455	4.807
36660.50	10.455	4.806
36720.50	10.452	4.804
36780.50	10.453	4.804
36840.50	10.453	4.805
36900.50	10.453	4.805
36960.50	10.459	4.810
37020.50	10.462	4.814
37080.50	10.466	4.818
37140.50	10.470	4.821
37200.50	10.479	4.830
37260.50	10.476	4.827
37320.50	10.475	4.826
37380.50	10.479	4.830
37440.50	10.481	4.832
37500.50	10.486	4.838
37560.50	10.494	4.845
37620.50	10.497	4.848
37680.50	10.503	4.855
37740.50	10.508	4.860
37800.50	10.514	4.865
37860.50	10.516	4.867
37920.50	10.521	4.872
37980.50	10.518	4.869
38040.50	10.513	4.865
38100.50	10.508	4.860
38160.50	10.504	4.855
38220.50	10.503	4.854
38280.50	10.505	4.856
38340.50	10.510	4.862
38400.50	10.520	4.871
38460.50	10.527	4.879

Table I10 Recorded data in the observation well, BL-0104, during the long-term aquifer test in the pumping well, SPW20-001 (11 of 11).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
38520.50	10.536	4.887
38580.50	10.541	4.893
38640.50	10.544	4.895
38700.50	10.542	4.894
38760.50	10.537	4.889
38820.50	10.537	4.889
38880.50	10.551	4.902
38940.50	10.569	4.920
39000.50	10.584	4.936
39060.50	10.596	4.948
39120.50	10.608	4.960
39180.50	10.612	4.963
39240.50	10.622	4.973
39300.50	10.638	4.989
39360.50	10.636	4.987
39420.50	10.634	4.986
39480.50	10.632	4.984
39540.50	10.632	4.983
39600.50	10.627	4.979
39660.50	10.624	4.975
39720.50	10.626	4.977
39780.50	10.629	4.980
39840.50	10.636	4.988
39900.50	10.645	4.997
39960.50	10.656	5.007
40020.50	10.665	5.016
40080.50	10.710	5.061
40140.50	10.715	5.067
40200.50	10.709	5.060
40260.50	10.703	5.054
40320.50	10.692	5.043
40380.50	10.699	5.050
40440.50	10.702	5.054
40500.50	10.707	5.058
40560.50	10.711	5.062
40620.50	10.716	5.068
40680.50	10.724	5.075
40740.50	10.728	5.079
40800.50	10.732	5.083
40860.50	10.731	5.083
40920.50	10.729	5.081
40980.50	10.725	5.076
41040.50	10.719	5.070
41100.50	10.718	5.069
41160.50	10.716	5.067
41220.50	10.719	5.070
41280.50	10.725	5.076
41340.50	10.732	5.083
41400.50	10.735	5.086
41460.50	10.744	5.095

Table I11 Recovery data in the observation well, BL-0104, after the long-term aquifer test in the pumping well, SPW20-001 (1 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
0 (Start)	10.744	0.000
2.00	10.746	-0.001
7.00	10.745	-0.001
12.00	10.747	-0.002
17.00	10.747	-0.003
22.00	10.748	-0.004
27.00	10.748	-0.003
32.00	10.748	-0.004
37.00	10.749	-0.005
42.00	10.749	-0.005
47.00	10.750	-0.006
52.00	10.750	-0.006
57.00	10.751	-0.007
62.00	10.748	-0.004
67.00	10.735	0.009
72.00	10.712	0.032
77.00	10.688	0.057
82.00	10.663	0.081
87.00	10.641	0.104
92.00	10.618	0.126
97.00	10.595	0.150
102.00	10.571	0.174
107.00	10.549	0.195
112.00	10.528	0.217
117.00	10.508	0.237
122.00	10.487	0.257
127.00	10.467	0.277
132.00	10.448	0.296
137.00	10.428	0.316
142.00	10.411	0.333
147.00	10.393	0.351
152.00	10.377	0.368
157.00	10.361	0.383
162.00	10.345	0.399
167.00	10.331	0.413
172.00	10.315	0.429
177.00	10.301	0.444
182.00	10.287	0.458
187.00	10.273	0.471
192.00	10.260	0.485
197.00	10.246	0.498
202.00	10.235	0.510
207.00	10.222	0.522
212.00	10.210	0.535
217.00	10.198	0.546
222.00	10.186	0.558
227.00	10.175	0.570
232.00	10.163	0.581
237.00	10.153	0.591
242.00	10.140	0.604
247.00	10.129	0.616
252.00	10.118	0.627
257.00	10.107	0.637
262.00	10.098	0.646
267.00	10.088	0.657
272.00	10.078	0.666
277.00	10.069	0.676
282.00	10.061	0.684
287.00	10.052	0.693
292.00	10.043	0.701
297.00	10.035	0.709
302.00	10.026	0.718
307.00	10.018	0.727
312.00	10.009	0.735
317.00	10.002	0.742
322.00	9.993	0.751
327.00	9.986	0.758
332.00	9.978	0.766
337.00	9.971	0.773
342.00	9.963	0.781
347.00	9.956	0.788
352.00	9.948	0.796
357.00	9.942	0.803
362.00	9.934	0.810
367.00	9.927	0.817
372.00	9.919	0.826
377.00	9.912	0.832
382.00	9.906	0.838
387.00	9.899	0.845
392.00	9.893	0.852
397.00	9.887	0.858
402.00	9.879	0.865
407.00	9.872	0.872
412.00	9.866	0.878
417.00	9.860	0.884
422.00	9.853	0.891
427.00	9.847	0.897
432.00	9.839	0.905
437.00	9.833	0.911
442.00	9.826	0.918
447.00	9.820	0.924
452.00	9.815	0.929
457.00	9.808	0.936
462.00	9.802	0.942

Table I11 Recovery data in the observation well, BL-0104, after the long-term aquifer test in the pumping well, SPW20-001 (2 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
467.00	9.797	0.948
472.00	9.791	0.954
477.00	9.786	0.959
482.00	9.780	0.964
487.00	9.774	0.970
492.00	9.769	0.976
497.00	9.763	0.981
502.00	9.759	0.986
507.00	9.753	0.991
512.00	9.748	0.996
517.00	9.743	1.001
522.00	9.738	1.006
527.00	9.733	1.011
532.00	9.728	1.017
537.00	9.723	1.022
542.00	9.718	1.027
547.00	9.713	1.032
552.00	9.707	1.037
557.00	9.702	1.042
562.00	9.697	1.047
567.00	9.693	1.052
572.00	9.688	1.056
577.00	9.684	1.061
582.00	9.678	1.067
587.00	9.673	1.071
592.00	9.669	1.076
597.00	9.665	1.080
602.00	9.659	1.085
607.00	9.655	1.089
612.00	9.651	1.094
617.00	9.646	1.098
622.00	9.642	1.103
627.00	9.637	1.108
632.00	9.632	1.113
637.00	9.627	1.117
642.00	9.623	1.121
647.00	9.618	1.126
652.00	9.614	1.131
657.00	9.609	1.135
662.00	9.605	1.139
667.00	9.601	1.144
672.00	9.596	1.148
677.00	9.592	1.152
682.00	9.588	1.156
687.00	9.583	1.161
692.00	9.579	1.165
697.00	9.574	1.170

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
702.00	9.570	1.175
707.00	9.566	1.178
712.00	9.561	1.183
717.00	9.557	1.187
722.00	9.552	1.193
727.00	9.547	1.197
732.00	9.543	1.201
737.00	9.539	1.205
742.00	9.535	1.209
747.00	9.531	1.213
752.00	9.526	1.218
757.00	9.521	1.223
762.00	9.517	1.227
767.00	9.513	1.231
772.00	9.509	1.236
777.00	9.504	1.241
782.00	9.500	1.245
787.00	9.495	1.249
792.00	9.491	1.253
797.00	9.487	1.257
802.00	9.483	1.262
807.00	9.478	1.266
812.00	9.474	1.270
817.00	9.470	1.274
822.00	9.466	1.278
827.00	9.462	1.282
832.00	9.458	1.286
837.00	9.454	1.290
842.00	9.450	1.294
847.00	9.446	1.298
852.00	9.443	1.301
857.00	9.439	1.305
862.00	9.434	1.310
867.00	9.430	1.315
872.00	9.426	1.318
877.00	9.421	1.323
882.00	9.417	1.327
887.00	9.413	1.331
892.00	9.409	1.335
897.00	9.405	1.339
902.00	9.401	1.343
907.00	9.398	1.347
912.00	9.394	1.350
917.00	9.390	1.355
922.00	9.386	1.358
927.00	9.382	1.362
932.00	9.378	1.367

Table I11 Recovery data in the observation well, BL-0104, after the long-term aquifer test in the pumping well, SPW20-001 (3 of 4).

Time (min)	Depth (m)	Recovery (m)
937.00	9.373	1.371
942.00	9.370	1.374
947.00	9.366	1.378
952.00	9.363	1.381
957.00	9.358	1.386
962.00	9.355	1.390
967.00	9.350	1.394
972.00	9.347	1.398
977.00	9.343	1.401
982.00	9.339	1.405
987.00	9.335	1.409
992.00	9.331	1.413
997.00	9.328	1.417
1002.00	9.325	1.420
1007.00	9.321	1.423
1012.00	9.318	1.426
1017.00	9.314	1.431
1022.00	9.311	1.434
1027.00	9.307	1.437
1032.00	9.304	1.440
1037.00	9.300	1.445
1042.00	9.297	1.448
1047.00	9.292	1.452
1052.00	9.289	1.455
1057.00	9.286	1.459
1062.00	9.282	1.462
1067.00	9.279	1.466
1072.00	9.274	1.470
1077.00	9.270	1.474
1082.00	9.267	1.477
1087.00	9.263	1.481
1092.00	9.260	1.484
1097.00	9.257	1.487
1102.00	9.255	1.490
1107.00	9.251	1.493
1112.00	9.248	1.497
1117.00	9.244	1.500
1122.00	9.240	1.504
1127.00	9.238	1.507
1132.00	9.235	1.510
1137.00	9.231	1.513
1142.00	9.228	1.516
1147.00	9.226	1.519
1152.00	9.223	1.522
1157.00	9.220	1.524
1162.00	9.217	1.527
1167.00	9.214	1.531
1172.00	9.211	1.533
1177.00	9.209	1.536
1182.00	9.206	1.538
1187.00	9.204	1.540
1192.00	9.201	1.543
1197.00	9.198	1.546
1202.00	9.197	1.547
1207.00	9.194	1.551
1212.00	9.191	1.553
1217.00	9.189	1.555
1222.00	9.186	1.558
1227.00	9.183	1.561
1232.00	9.181	1.563
1237.00	9.179	1.566
1242.00	9.177	1.567
1247.00	9.175	1.570
1252.00	9.172	1.572
1257.00	9.171	1.574
1262.00	9.168	1.576
1267.00	9.166	1.579
1272.00	9.164	1.580
1277.00	9.162	1.583
1282.00	9.160	1.585
1287.00	9.158	1.586
1292.00	9.155	1.589
1297.00	9.153	1.591
1302.00	9.152	1.592
1307.00	9.149	1.595
1312.00	9.148	1.597
1317.00	9.145	1.599
1322.00	9.143	1.601
1327.00	9.142	1.603
1332.00	9.139	1.605
1337.00	9.138	1.606
1342.00	9.136	1.608
1347.00	9.134	1.610
1352.00	9.133	1.612
1357.00	9.131	1.614
1362.00	9.129	1.615
1367.00	9.127	1.617
1372.00	9.126	1.618
1377.00	9.124	1.620
1382.00	9.122	1.622
1387.00	9.121	1.624
1392.00	9.119	1.625
1397.00	9.118	1.627
1402.00	9.116	1.628

Table I11 Recovery data in the observation well, BL-0104, after the long-term aquifer test in the pumping well, SPW20-001 (4 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
1407.00	9.115	1.630
1412.00	9.113	1.631
1417.00	9.112	1.633
1422.00	9.110	1.634
1427.00	9.108	1.636
1432.00	9.107	1.637
1437.00	9.105	1.639
1467.00	9.096	1.648
1497.00	9.087	1.658
1527.00	9.077	1.667
1557.00	9.067	1.677
1587.00	9.057	1.687
1617.00	9.048	1.696
1647.00	9.038	1.707
1677.00	9.027	1.717
1707.00	9.017	1.727
1737.00	9.007	1.737
1767.00	8.997	1.748
1797.00	8.982	1.762
1827.00	8.970	1.774
1857.00	8.960	1.784
1887.00	8.950	1.794
1917.00	8.941	1.803
1947.00	8.932	1.812
1977.00	8.924	1.820
2007.00	8.916	1.828
2037.00	8.910	1.835
2067.00	8.904	1.840
2097.00	8.898	1.846
2127.00	8.893	1.851
2157.00	8.888	1.856
2187.00	8.882	1.862
2217.00	8.877	1.867
2247.00	8.871	1.873
2277.00	8.863	1.882
2307.00	8.855	1.889
2337.00	8.845	1.900
2367.00	8.837	1.907
2397.00	8.827	1.917
2427.00	8.818	1.926
2457.00	8.810	1.935
2487.00	8.801	1.943
2517.00	8.790	1.954
2547.00	8.780	1.965
2577.00	8.770	1.974
2607.00	8.761	1.983
2637.00	8.752	1.992
2667.00	8.744	2.000
2697.00	8.736	2.008
2727.00	8.728	2.016
2757.00	8.720	2.025
2787.00	8.714	2.031
2817.00	8.706	2.038
2847.00	8.700	2.044
2877.00	8.696	2.049
2907.00	8.689	2.055
2937.00	8.682	2.062
2967.00	8.677	2.067
2997.00	8.672	2.072
3027.00	8.664	2.081
3057.00	8.657	2.087
3067.00	8.655	2.090

Table I12 Recorded data in the observation well, BL-0263, during the long-term aquifer test in the pumping well, SPW20-001 (1 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
0 (Static)	9.336	0.000
1035.50	9.856	0.520
1040.50	9.861	0.525
1045.50	9.866	0.530
1050.50	9.869	0.533
1055.50	9.873	0.537
1060.50	9.877	0.541
1065.50	9.880	0.544
1070.50	9.882	0.547
1075.50	9.885	0.549
1080.50	9.886	0.550
1085.50	9.889	0.553
1090.50	9.889	0.553
1095.50	9.889	0.553
1100.50	9.889	0.553
1105.50	9.888	0.552
1110.50	9.888	0.552
1115.50	9.888	0.552
1120.50	9.887	0.552
1125.50	9.889	0.553
1130.50	9.890	0.554
1135.50	9.890	0.555
1140.50	9.891	0.556
1145.50	9.892	0.556
1150.50	9.892	0.557
1155.50	9.892	0.556
1160.50	9.895	0.559
1165.50	9.894	0.558
1170.50	9.893	0.558
1175.50	9.894	0.558
1180.50	9.894	0.559
1185.50	9.894	0.558
1190.50	9.894	0.559
1195.50	9.898	0.562
1200.50	9.897	0.562
1205.50	9.896	0.560
1210.50	9.897	0.561
1215.50	9.896	0.560
1220.50	9.896	0.560
1225.50	9.897	0.561
1230.50	9.897	0.561
1235.50	9.898	0.562
1240.50	9.897	0.561
1245.50	9.898	0.562
1250.50	9.899	0.563
1255.50	9.899	0.563
1260.50	9.901	0.565
1265.50	9.901	0.565
1270.50	9.899	0.564
1275.50	9.901	0.565
1280.50	9.901	0.566
1285.50	9.900	0.564
1290.50	9.900	0.564
1295.50	9.900	0.564
1300.50	9.900	0.564
1305.50	9.901	0.566
1310.50	9.901	0.565
1315.50	9.902	0.566
1320.50	9.902	0.566
1325.50	9.902	0.566
1330.50	9.902	0.566
1335.50	9.900	0.564
1340.50	9.900	0.564
1345.50	9.891	0.555
1350.50	9.891	0.555
1355.50	9.891	0.555
1360.50	9.892	0.556
1365.50	9.892	0.557
1370.50	9.894	0.558
1375.50	9.894	0.558
1380.50	9.894	0.558
1385.50	9.893	0.557
1390.50	9.894	0.558
1395.50	9.895	0.559
1400.50	9.894	0.558
1405.50	9.895	0.559
1410.50	9.896	0.560
1415.50	9.898	0.562
1420.50	9.898	0.562
1425.50	9.897	0.561
1430.50	9.898	0.563
1435.50	9.898	0.563
1440.50	9.901	0.565
1470.50	9.901	0.565
1500.50	9.902	0.566
1530.50	9.903	0.567
1560.50	9.907	0.571
1590.50	9.911	0.575
1620.50	9.913	0.577
1650.50	9.915	0.579
1680.50	9.917	0.582
1710.50	9.920	0.584
1740.50	9.922	0.586
1770.50	9.923	0.587

Table I12 Recorded data in the observation well, BL-0263, during the long-term aquifer test in the pumping well, SPW20-001 (2 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
1800.50	9.900	0.564
1830.50	9.902	0.566
1860.50	9.904	0.568
1890.50	9.905	0.569
1920.50	9.905	0.570
1950.50	9.908	0.572
1980.50	9.910	0.574
2010.50	9.910	0.574
2040.50	9.912	0.577
2070.50	9.916	0.580
2100.50	9.918	0.582
2130.50	9.919	0.584
2160.50	9.918	0.583
2190.50	9.921	0.585
2220.50	9.923	0.587
2250.50	9.925	0.590
2280.50	9.927	0.591
2310.50	9.929	0.593
2340.50	9.930	0.595
2370.50	9.932	0.596
2400.50	9.932	0.596
2430.50	9.934	0.598
2460.50	9.933	0.598
2490.50	9.934	0.599
2520.50	9.935	0.600
2550.50	9.937	0.601
2580.50	9.939	0.603
2610.50	9.938	0.603
2640.50	9.945	0.609
2670.50	9.935	0.599
2700.50	9.931	0.595
2730.50	9.918	0.583
2760.50	9.920	0.585
2790.50	9.922	0.586
2820.50	9.924	0.588
2850.50	9.924	0.588
2880.50	9.926	0.590
2910.50	9.925	0.589
2940.50	9.924	0.589
2970.50	9.923	0.587
3000.50	9.925	0.589
3030.50	9.927	0.591
3060.50	9.928	0.592
3090.50	9.926	0.590
3120.50	9.927	0.591
3150.50	9.926	0.590
3180.50	9.924	0.588

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
3210.50	9.925	0.589
3240.50	9.923	0.587
3270.50	9.923	0.587
3300.50	9.925	0.589
3330.50	9.924	0.589
3360.50	9.926	0.590
3390.50	9.930	0.594
3420.50	9.933	0.597
3480.50	9.935	0.599
3540.50	9.935	0.600
3600.50	9.934	0.598
3660.50	9.940	0.604
3720.50	9.954	0.618
3780.50	9.950	0.614
3840.50	9.951	0.615
3900.50	9.948	0.612
3960.50	9.953	0.617
4020.50	9.958	0.622
4080.50	9.962	0.626
4140.50	9.968	0.633
4200.50	9.976	0.640
4260.50	9.977	0.641
4320.50	9.982	0.646
4380.50	9.981	0.646
4440.50	9.984	0.648
4500.50	9.982	0.646
4560.50	9.985	0.649
4620.50	9.988	0.652
4680.50	10.860	1.524
4740.50	10.862	1.527
4800.50	10.865	1.529
4860.50	10.835	1.499
4920.50	10.819	1.483
4980.50	10.815	1.479
5040.50	10.817	1.481
5100.50	10.820	1.484
5160.50	10.273	0.937
5220.50	10.034	0.698
5280.50	10.036	0.701
5340.50	9.976	0.641
5400.50	9.979	0.643
5460.50	9.982	0.646
5520.50	9.982	0.647
5580.50	9.981	0.646
5640.50	9.980	0.644
5700.50	9.982	0.646
5760.50	9.968	0.633

Table I12 Recorded data in the observation well, BL-0263, during the long-term aquifer test in the pumping well, SPW20-001 (3 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
5820.50	9.974	0.638
5880.50	9.975	0.640
5940.50	9.978	0.642
6000.50	9.981	0.645
6060.50	9.984	0.649
6120.50	9.986	0.650
6180.50	9.988	0.652
6240.50	9.991	0.655
6300.50	9.994	0.658
6360.50	9.998	0.662
6420.50	9.998	0.662
6480.50	10.006	0.670
6540.50	10.010	0.674
6600.50	10.008	0.672
6660.50	10.009	0.673
6720.50	10.010	0.674
6780.50	10.009	0.674
6840.50	10.011	0.675
6900.50	10.010	0.674
6960.50	10.010	0.675
7020.50	10.013	0.678
7080.50	10.015	0.680
7140.50	10.019	0.683
7200.50	10.024	0.688
7260.50	10.018	0.683
7320.50	10.023	0.687
7380.50	10.033	0.697
7440.50	10.039	0.703
7500.50	10.046	0.710
7560.50	10.050	0.714
7620.50	10.052	0.716
7680.50	10.055	0.719
7740.50	10.060	0.724
7800.50	10.065	0.730
7860.50	10.068	0.732
7920.50	10.068	0.732
7980.50	10.072	0.736
8040.50	10.068	0.732
8100.50	10.060	0.724
8160.50	10.053	0.718
8220.50	10.047	0.711
8280.50	10.061	0.725
8340.50	10.060	0.724
8400.50	10.063	0.727
8460.50	10.064	0.728
8520.50	10.067	0.731
8580.50	10.071	0.735

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
8640.50	10.074	0.739
8700.50	10.078	0.742
8760.50	10.086	0.750
8820.50	10.097	0.761
8880.50	10.104	0.768
8940.50	10.106	0.771
9000.50	10.106	0.770
9060.50	10.106	0.770
9120.50	10.106	0.771
9180.50	10.104	0.768
9240.50	10.102	0.767
9300.50	10.099	0.763
9360.50	10.099	0.763
9420.50	10.098	0.763
9480.50	10.101	0.765
9540.50	10.100	0.764
9600.50	10.101	0.766
9660.50	10.451	1.116
9720.50	10.455	1.119
9780.50	10.455	1.120
9840.50	10.458	1.122
9900.50	10.457	1.121
9960.50	10.455	1.119
10020.50	10.435	1.099
10080.50	10.408	1.072
10140.50	10.404	1.068
10200.50	10.407	1.071
10260.50	10.412	1.077
10320.50	10.366	1.030
10380.50	10.366	1.031
10440.50	10.370	1.034
10500.50	10.371	1.036
10560.50	10.370	1.034
10620.50	10.373	1.037
10680.50	10.373	1.037
10740.50	10.374	1.038
10800.50	10.377	1.041
10860.50	10.321	0.986
10920.50	10.300	0.964
10980.50	10.295	0.959
11040.50	10.303	0.967
11100.50	10.193	0.857
11160.50	10.198	0.862
11220.50	10.200	0.865
11280.50	10.201	0.865
11340.50	10.199	0.863
11400.50	10.196	0.860

Table I12 Recorded data in the observation well, BL-0263, during the long-term aquifer test in the pumping well, SPW20-001 (4 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
11460.50	10.198	0.862
11520.50	10.175	0.839
11580.50	10.174	0.838
11640.50	10.180	0.844
11700.50	10.181	0.845
11760.50	10.182	0.846
11820.50	10.187	0.851
11880.50	10.186	0.850
11940.50	10.182	0.846
12000.50	10.176	0.840
12060.50	10.177	0.841
12120.50	10.173	0.837
12180.50	10.169	0.834
12240.50	10.172	0.836
12300.50	10.168	0.832
12360.50	10.166	0.830
12420.50	10.174	0.838
12480.50	10.179	0.843
12540.50	10.199	0.863
12600.50	10.201	0.866
12660.50	10.199	0.863
12720.50	10.200	0.864
12780.50	10.201	0.865
12840.50	10.206	0.870
12900.50	10.208	0.872
12960.50	10.206	0.871
13020.50	10.243	0.908
13080.50	10.213	0.878
13140.50	10.224	0.888
13200.50	10.232	0.896
13260.50	10.242	0.906
13320.50	10.238	0.902
13380.50	10.248	0.912
13440.50	10.256	0.920
13500.50	10.244	0.908
13560.50	10.251	0.915
13620.50	10.262	0.926
13680.50	10.262	0.926
13740.50	10.271	0.935
13800.50	10.272	0.936
13860.50	10.285	0.949
13920.50	10.294	0.958
13980.50	10.317	0.982
14040.50	10.319	0.983
14100.50	10.327	0.991
14160.50	10.337	1.001
14220.50	10.330	0.994

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
14280.50	10.336	1.000
14340.50	10.336	1.000
14400.50	10.344	1.009
14460.50	10.327	0.992
14520.50	10.330	0.995
14580.50	10.343	1.007
14640.50	10.343	1.007
14700.50	10.349	1.013
14760.50	10.344	1.009
14820.50	10.346	1.011
14880.50	10.338	1.002
14940.50	10.349	1.013
15000.50	10.352	1.016
15060.50	10.354	1.018
15120.50	10.360	1.024
15180.50	10.361	1.026
15240.50	10.370	1.034
15300.50	10.371	1.035
15360.50	10.384	1.048
15420.50	10.415	1.079
15480.50	10.420	1.084
15540.50	10.417	1.081
15600.50	10.415	1.079
15660.50	10.420	1.084
15720.50	10.427	1.092
15780.50	10.425	1.090
15840.50	10.433	1.098
15900.50	10.443	1.107
15960.50	10.465	1.130
16020.50	10.477	1.141
16080.50	10.470	1.134
16140.50	10.498	1.163
16200.50	10.516	1.180
16260.50	10.532	1.196
16320.50	10.543	1.208
16380.50	10.539	1.203
16440.50	10.536	1.200
16500.50	10.538	1.202
16560.50	10.538	1.203
16620.50	10.540	1.204
16680.50	10.549	1.213
16740.50	10.555	1.220
16800.50	10.566	1.230
16860.50	10.569	1.233
16920.50	10.577	1.242
16980.50	10.584	1.248
17040.50	10.589	1.254

Table I12 Recorded data in the observation well, BL-0263, during the long-term aquifer test in the pumping well, SPW20-001 (5 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
17100.50	10.595	1.259
17160.50	10.620	1.284
17220.50	10.878	1.542
17280.50	11.119	1.783
17340.50	11.301	1.965
17400.50	11.453	2.117
17460.50	11.572	2.237
17520.50	11.662	2.326
17580.50	11.737	2.402
17640.50	11.810	2.474
17700.50	11.850	2.514
17760.50	11.884	2.548
17820.50	11.889	2.554
17880.50	11.895	2.560
17940.50	11.884	2.548
18000.50	11.877	2.541
18060.50	11.875	2.539
18120.50	11.879	2.543
18180.50	11.906	2.571
18240.50	11.945	2.609
18300.50	11.981	2.645
18360.50	12.033	2.697
18420.50	12.091	2.755
18480.50	12.154	2.818
18540.50	12.214	2.878
18600.50	12.296	2.961
18660.50	12.365	3.029
18720.50	12.439	3.104
18780.50	12.489	3.153
18840.50	12.541	3.205
18900.50	12.609	3.273
18960.50	12.660	3.324
19020.50	12.701	3.366
19080.50	12.730	3.394
19140.50	12.750	3.414
19200.50	12.756	3.420
19260.50	12.758	3.423
19320.50	12.733	3.398
19380.50	12.713	3.378
19440.50	12.685	3.349
19500.50	12.657	3.321
19560.50	12.631	3.295
19620.50	12.598	3.262
19680.50	12.567	3.231
19740.50	12.532	3.197
19800.50	12.482	3.147
19860.50	12.441	3.106

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
19920.50	12.386	3.050
19980.50	12.320	2.984
20040.50	12.256	2.920
20100.50	12.209	2.873
20160.50	12.160	2.824
20220.50	12.114	2.779
20280.50	12.075	2.739
20340.50	12.035	2.699
20400.50	12.007	2.671
20460.50	11.983	2.647
20520.50	11.960	2.625
20580.50	11.934	2.598
20640.50	11.916	2.581
20700.50	11.922	2.586
20760.50	11.939	2.603
20820.50	11.974	2.638
20880.50	12.001	2.665
20940.50	12.018	2.682
21000.50	12.042	2.706
21060.50	12.059	2.723
21120.50	12.078	2.742
21180.50	12.108	2.772
21240.50	12.132	2.796
21300.50	12.147	2.812
21360.50	12.150	2.815
21420.50	12.139	2.803
21480.50	12.136	2.800
21540.50	12.135	2.799
21600.50	12.131	2.795
21660.50	12.141	2.805
21720.50	12.130	2.794
21780.50	12.125	2.789
21840.50	12.109	2.773
21900.50	12.072	2.736
21960.50	12.047	2.711
22020.50	12.026	2.690
22080.50	12.011	2.675
22140.50	11.986	2.650
22200.50	11.993	2.657
22260.50	11.974	2.638
22320.50	11.945	2.609
22380.50	11.933	2.597
22440.50	11.929	2.593
22500.50	11.923	2.587
22560.50	11.949	2.613
22620.50	11.971	2.635
22680.50	12.006	2.671

Table I12 Recorded data in the observation well, BL-0263, during the long-term aquifer test in the pumping well, SPW20-001 (6 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
22740.50	12.028	2.692
22800.50	12.033	2.697
22860.50	12.046	2.710
22920.50	12.067	2.731
22980.50	12.085	2.750
23040.50	12.103	2.768
23100.50	12.144	2.808
23160.50	12.188	2.852
23220.50	12.234	2.898
23280.50	12.243	2.907
23340.50	12.251	2.915
23400.50	12.254	2.918
23460.50	12.251	2.915
23520.50	12.258	2.922
23580.50	12.266	2.931
23640.50	12.272	2.936
23700.50	12.281	2.945
23760.50	12.284	2.948
23820.50	12.297	2.961
23880.50	12.301	2.965
23940.50	12.310	2.974
24000.50	12.322	2.986
24060.50	12.326	2.990
24120.50	12.332	2.997
24180.50	12.338	3.002
24240.50	12.334	2.998
24300.50	12.319	2.983
24360.50	12.304	2.969
24420.50	12.294	2.958
24480.50	12.293	2.957
24540.50	12.252	2.917
24600.50	12.259	2.923
24660.50	12.271	2.936
24720.50	12.278	2.942
24780.50	12.307	2.971
24840.50	12.349	3.013
24900.50	12.380	3.044
24960.50	12.408	3.072
25020.50	12.433	3.098
25080.50	12.456	3.120
25140.50	12.467	3.132
25200.50	12.466	3.130
25260.50	12.475	3.139
25320.50	12.475	3.139
25380.50	12.478	3.142
25440.50	12.472	3.137
25500.50	12.467	3.131

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
25560.50	12.439	3.103
25620.50	12.407	3.071
25680.50	12.370	3.035
25740.50	12.349	3.013
25800.50	12.313	2.977
25860.50	12.288	2.952
25920.50	12.248	2.912
25980.50	12.206	2.870
26040.50	12.160	2.824
26100.50	12.102	2.766
26160.50	12.079	2.743
26220.50	12.081	2.745
26280.50	12.084	2.748
26340.50	12.088	2.752
26400.50	12.094	2.758
26460.50	12.097	2.762
26520.50	12.121	2.785
26580.50	12.163	2.827
26640.50	12.207	2.871
26700.50	12.259	2.923
26760.50	12.309	2.973
26820.50	12.345	3.009
26880.50	12.365	3.029
26940.50	12.392	3.056
27000.50	12.413	3.077
27060.50	12.418	3.082
27120.50	12.410	3.074
27180.50	12.403	3.067
27240.50	12.403	3.067
27300.50	12.387	3.052
27360.50	12.382	3.046
27420.50	12.379	3.044
27480.50	12.376	3.040
27540.50	12.380	3.044
27600.50	12.384	3.048
27660.50	12.385	3.049
27720.50	12.380	3.045
27780.50	12.372	3.037
27840.50	12.370	3.035
27900.50	12.369	3.033
27960.50	12.371	3.036
28020.50	12.372	3.036
28080.50	12.374	3.039
28140.50	12.390	3.054
28200.50	12.397	3.061
28260.50	12.397	3.061
28320.50	12.406	3.070

Table I12 Recorded data in the observation well, BL-0263, during the long-term aquifer test in the pumping well, SPW20-001 (7 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
28380.50	12.416	3.080
28440.50	12.428	3.092
28500.50	12.433	3.097
28560.50	12.435	3.099
28620.50	12.435	3.099
28680.50	12.437	3.101
28740.50	12.445	3.109
28800.50	12.494	3.158
28860.50	12.509	3.173
28920.50	12.517	3.181
28980.50	12.535	3.199
29040.50	12.544	3.209
29100.50	12.540	3.204
29160.50	12.549	3.214
29220.50	12.550	3.214
29280.50	12.541	3.205
29340.50	12.548	3.212
29400.50	12.556	3.220
29460.50	12.571	3.235
29520.50	12.585	3.249
29580.50	12.597	3.261
29640.50	12.619	3.283
29700.50	12.639	3.303
29760.50	12.659	3.323
29820.50	12.675	3.340
29880.50	12.679	3.343
29940.50	12.688	3.353
30000.50	12.685	3.349
30060.50	12.680	3.345
30120.50	12.672	3.336
30180.50	12.677	3.341
30240.50	12.687	3.351
30300.50	12.695	3.359
30360.50	12.704	3.368
30420.50	12.716	3.380
30480.50	12.726	3.390
30540.50	12.730	3.394
30600.50	12.740	3.405
30660.50	12.741	3.405
30720.50	12.745	3.410
30780.50	12.754	3.418
30840.50	12.763	3.427
30900.50	12.777	3.442
30960.50	12.796	3.460
31020.50	12.826	3.490
31080.50	12.867	3.531
31140.50	12.863	3.527

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
31200.50	12.871	3.535
31260.50	12.889	3.554
31320.50	12.889	3.553
31380.50	12.892	3.556
31440.50	12.894	3.558
31500.50	12.884	3.548
31560.50	12.885	3.550
31620.50	12.877	3.541
31680.50	12.852	3.516
31740.50	12.858	3.523
31800.50	12.860	3.524
31860.50	12.869	3.534
31920.50	12.880	3.544
31980.50	12.895	3.559
32040.50	12.902	3.566
32100.50	12.914	3.578
32160.50	12.927	3.592
32220.50	12.940	3.604
32280.50	12.945	3.609
32340.50	12.942	3.606
32400.50	12.938	3.603
32460.50	12.946	3.610
32520.50	12.956	3.620
32580.50	12.950	3.614
32640.50	12.956	3.620
32700.50	12.953	3.617
32760.50	12.944	3.608
32820.50	12.928	3.592
32880.50	12.904	3.569
32940.50	12.889	3.553
33000.50	12.874	3.539
33060.50	12.866	3.530
33120.50	12.847	3.512
33180.50	12.809	3.474
33240.50	12.771	3.436
33300.50	12.734	3.398
33360.50	12.733	3.397
33420.50	12.726	3.390
33480.50	12.710	3.374
33540.50	12.701	3.366
33600.50	12.673	3.337
33660.50	12.663	3.328
33720.50	12.669	3.333
33780.50	12.662	3.326
33840.50	12.654	3.318
33900.50	12.648	3.312
33960.50	12.652	3.316

Table I12 Recorded data in the observation well, BL-0263, during the long-term aquifer test in the pumping well, SPW20-001 (8 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
34020.50	12.655	3.320
34080.50	12.658	3.322
34140.50	12.669	3.333
34200.50	12.680	3.344
34260.50	12.686	3.350
34320.50	12.677	3.341
34380.50	12.654	3.318
34440.50	12.644	3.308
34500.50	12.638	3.302
34560.50	12.633	3.298
34620.50	12.627	3.291
34680.50	12.629	3.293
34740.50	12.629	3.293
34800.50	12.624	3.289
34860.50	12.622	3.286
34920.50	12.619	3.283
34980.50	12.612	3.276
35040.50	12.601	3.265
35100.50	12.583	3.247
35160.50	12.563	3.227
35220.50	12.553	3.217
35280.50	12.542	3.206
35340.50	12.530	3.194
35400.50	12.523	3.187
35460.50	12.516	3.180
35520.50	12.508	3.172
35580.50	12.503	3.167
35640.50	12.499	3.163
35700.50	12.495	3.159
35760.50	12.480	3.145
35820.50	12.463	3.127
35880.50	12.448	3.112
35940.50	12.425	3.089
36000.50	12.406	3.070
36060.50	12.402	3.067
36120.50	12.393	3.057
36180.50	12.379	3.044
36240.50	12.363	3.027
36300.50	12.351	3.015
36360.50	12.345	3.010
36420.50	12.341	3.005
36480.50	12.334	2.998
36540.50	12.320	2.985
36600.50	12.302	2.967
36660.50	12.290	2.954
36720.50	12.274	2.939
36780.50	12.260	2.924

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
36840.50	12.242	2.907
36900.50	12.218	2.883
36960.50	12.204	2.868
37020.50	12.195	2.859
37080.50	12.186	2.850
37140.50	12.179	2.843
37200.50	12.164	2.829
37260.50	12.142	2.806
37320.50	12.120	2.784
37380.50	12.102	2.766
37440.50	12.085	2.749
37500.50	12.075	2.739
37560.50	12.076	2.740
37620.50	12.071	2.735
37680.50	12.067	2.731
37740.50	12.069	2.733
37800.50	12.078	2.742
37860.50	12.085	2.749
37920.50	12.087	2.751
37980.50	12.095	2.759
38040.50	12.106	2.770
38100.50	12.113	2.777
38160.50	12.120	2.784
38220.50	12.118	2.783
38280.50	12.131	2.795
38340.50	12.130	2.794
38400.50	12.135	2.800
38460.50	12.160	2.824
38520.50	12.180	2.844
38580.50	12.196	2.860
38640.50	12.212	2.876
38700.50	12.232	2.896
38760.50	12.249	2.913
38820.50	12.268	2.932
38880.50	12.349	3.013
38940.50	12.386	3.050
39000.50	12.420	3.084
39060.50	12.451	3.115
39120.50	12.468	3.132
39180.50	12.486	3.150
39240.50	12.505	3.169
39300.50	12.509	3.173
39360.50	12.513	3.177
39420.50	12.512	3.176
39480.50	12.520	3.184
39540.50	12.533	3.197
39600.50	12.532	3.196

Table I12 Recorded data in the observation well, BL-0263, during the long-term aquifer test in the pumping well, SPW20-001 (9 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
39660.50	12.539	3.203
39720.50	12.553	3.217
39780.50	12.573	3.237
39840.50	12.594	3.259
39900.50	12.618	3.282
39960.50	12.644	3.308
40020.50	12.674	3.338
40080.50	12.698	3.362
40140.50	12.735	3.399
40200.50	12.768	3.432
40260.50	12.797	3.462
40320.50	12.819	3.483
40380.50	12.838	3.502
40440.50	12.847	3.511
40500.50	12.859	3.523
40560.50	12.871	3.535
40620.50	12.876	3.540
40680.50	12.883	3.547
40740.50	12.885	3.549
40800.50	12.879	3.543
40860.50	12.874	3.538
40920.50	12.858	3.522
40980.50	12.848	3.512
41040.50	12.834	3.498
41100.50	12.820	3.485
41160.50	12.816	3.480
41220.50	12.807	3.471
41280.50	12.800	3.465
41340.50	12.795	3.460
41400.50	12.762	3.426
41460.50	12.763	3.427

Table I13 Recovery data in the observation well, BL-0263, after the long-term aquifer test in the pumping well, SPW20-001 (1 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
0 (Start)	12.761	0.000
2.00	12.761	0.000
7.00	12.761	0.001
12.00	12.762	-0.001
17.00	12.762	-0.001
22.00	12.762	0.000
27.00	12.761	0.000
32.00	12.761	0.001
37.00	12.760	0.001
42.00	12.760	0.001
47.00	12.762	0.000
52.00	12.761	0.000
57.00	12.762	-0.001
62.00	12.761	0.000
67.00	12.762	0.000
72.00	12.761	0.001
77.00	12.761	0.001
82.00	12.761	0.001
87.00	12.759	0.002
92.00	12.759	0.002
97.00	12.759	0.003
102.00	12.757	0.004
107.00	12.755	0.006
112.00	12.755	0.006
117.00	12.754	0.007
122.00	12.753	0.008
127.00	12.751	0.010
132.00	12.750	0.011
137.00	12.750	0.012
142.00	12.749	0.013
147.00	12.747	0.014
152.00	12.746	0.016
157.00	12.745	0.017
162.00	12.741	0.020
167.00	12.741	0.020
172.00	12.739	0.022
177.00	12.735	0.026
182.00	12.732	0.030
187.00	12.727	0.034
192.00	12.722	0.040
197.00	12.718	0.043
202.00	12.714	0.047
207.00	12.711	0.050
212.00	12.706	0.055
217.00	12.702	0.059
222.00	12.700	0.062
227.00	12.696	0.065
232.00	12.692	0.070
237.00	12.690	0.072
242.00	12.686	0.076
247.00	12.681	0.081
252.00	12.678	0.084
257.00	12.675	0.087
262.00	12.670	0.091
267.00	12.667	0.095
272.00	12.662	0.099
277.00	12.659	0.102
282.00	12.656	0.105
287.00	12.653	0.108
292.00	12.649	0.113
297.00	12.645	0.116
302.00	12.641	0.120
307.00	12.639	0.122
312.00	12.634	0.128
317.00	12.632	0.130
322.00	12.629	0.132
327.00	12.625	0.136
332.00	12.621	0.140
337.00	12.619	0.142
342.00	12.615	0.147
347.00	12.611	0.150
352.00	12.608	0.153
357.00	12.605	0.156
362.00	12.601	0.161
367.00	12.597	0.165
372.00	12.592	0.170
377.00	12.587	0.174
382.00	12.583	0.178
387.00	12.580	0.182
392.00	12.574	0.187
397.00	12.570	0.191
402.00	12.563	0.198
407.00	12.557	0.204
412.00	12.553	0.209
417.00	12.546	0.215
422.00	12.540	0.221
427.00	12.534	0.228
432.00	12.528	0.233
437.00	12.523	0.239
442.00	12.518	0.244
447.00	12.512	0.249
452.00	12.507	0.254
457.00	12.501	0.261
462.00	12.495	0.267

Table I13 Recovery data in the observation well, BL-0263, after the long-term aquifer test in the pumping well, SPW20-001 (2 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
467.00	12.490	0.271
472.00	12.487	0.275
477.00	12.481	0.280
482.00	12.478	0.283
487.00	12.474	0.288
492.00	12.469	0.292
497.00	12.465	0.297
502.00	12.461	0.300
507.00	12.456	0.305
512.00	12.453	0.308
517.00	12.450	0.312
522.00	12.445	0.316
527.00	12.442	0.320
532.00	12.437	0.324
537.00	12.431	0.330
542.00	12.427	0.334
547.00	12.423	0.339
552.00	12.419	0.342
557.00	12.415	0.347
562.00	12.410	0.351
567.00	12.405	0.356
572.00	12.401	0.360
577.00	12.397	0.364
582.00	12.393	0.369
587.00	12.388	0.373
592.00	12.386	0.375
597.00	12.381	0.381
602.00	12.377	0.384
607.00	12.372	0.389
612.00	12.369	0.393
617.00	12.365	0.396
622.00	12.360	0.402
627.00	12.355	0.407
632.00	12.351	0.410
637.00	12.347	0.414
642.00	12.342	0.419
647.00	12.336	0.425
652.00	12.333	0.429
657.00	12.327	0.434
662.00	12.323	0.438
667.00	12.319	0.442
672.00	12.315	0.447
677.00	12.311	0.450
682.00	12.306	0.455
687.00	12.302	0.459
692.00	12.297	0.465
697.00	12.293	0.469

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
702.00	12.289	0.472
707.00	12.284	0.477
712.00	12.279	0.482
717.00	12.274	0.487
722.00	12.269	0.492
727.00	12.265	0.497
732.00	12.260	0.501
737.00	12.255	0.507
742.00	12.251	0.511
747.00	12.246	0.515
752.00	12.243	0.519
757.00	12.238	0.523
762.00	12.235	0.526
767.00	12.230	0.531
772.00	12.226	0.536
777.00	12.221	0.541
782.00	12.218	0.544
787.00	12.212	0.549
792.00	12.209	0.552
797.00	12.204	0.557
802.00	12.199	0.562
807.00	12.192	0.569
812.00	12.183	0.578
817.00	12.176	0.585
822.00	12.171	0.591
827.00	12.165	0.596
832.00	12.162	0.599
837.00	12.156	0.605
842.00	12.153	0.608
847.00	12.149	0.612
852.00	12.146	0.615
857.00	12.142	0.619
862.00	12.138	0.624
867.00	12.135	0.626
872.00	12.130	0.632
877.00	12.126	0.636
882.00	12.122	0.640
887.00	12.117	0.644
892.00	12.114	0.647
897.00	12.109	0.652
902.00	12.106	0.655
907.00	12.101	0.660
912.00	12.099	0.662
917.00	12.095	0.667
922.00	12.091	0.671
927.00	12.087	0.674
932.00	12.083	0.678

Table I13 Recovery data in the observation well, BL-0263, after the long-term aquifer test in the pumping well, SPW20-001 (3 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
937.00	12.079	0.683
942.00	12.075	0.686
947.00	12.071	0.690
952.00	12.067	0.694
957.00	12.062	0.699
962.00	12.058	0.703
967.00	12.053	0.708
972.00	12.048	0.713
977.00	12.043	0.718
982.00	12.039	0.722
987.00	12.034	0.727
992.00	12.029	0.732
997.00	12.024	0.738
1002.00	12.022	0.739
1007.00	12.018	0.743
1012.00	12.015	0.747
1017.00	12.011	0.750
1022.00	12.008	0.753
1027.00	12.006	0.755
1032.00	12.003	0.759
1037.00	11.999	0.763
1042.00	11.996	0.765
1047.00	11.992	0.769
1052.00	11.988	0.773
1057.00	11.984	0.777
1062.00	11.981	0.780
1067.00	11.977	0.785
1072.00	11.972	0.789
1077.00	11.967	0.794
1082.00	11.963	0.798
1087.00	11.960	0.802
1092.00	11.956	0.805
1097.00	11.951	0.811
1102.00	11.949	0.813
1107.00	11.944	0.817
1112.00	11.940	0.821
1117.00	11.936	0.825
1122.00	11.932	0.830
1127.00	11.929	0.832
1132.00	11.924	0.837
1137.00	11.921	0.841
1142.00	11.917	0.845
1147.00	11.914	0.847
1152.00	11.909	0.853
1157.00	11.905	0.857
1162.00	11.901	0.860
1167.00	11.897	0.864
1172.00	11.894	0.867
1177.00	11.890	0.871
1182.00	11.888	0.874
1187.00	11.885	0.876
1192.00	11.882	0.879
1197.00	11.879	0.882
1202.00	11.877	0.884
1207.00	11.873	0.888
1212.00	11.869	0.892
1217.00	11.866	0.896
1222.00	11.863	0.898
1227.00	11.859	0.902
1232.00	11.855	0.906
1237.00	11.852	0.910
1242.00	11.850	0.912
1247.00	11.848	0.914
1252.00	11.844	0.918
1257.00	11.843	0.919
1262.00	11.839	0.922
1267.00	11.836	0.925
1272.00	11.833	0.928
1277.00	11.831	0.930
1282.00	11.829	0.933
1287.00	11.827	0.934
1292.00	11.823	0.938
1297.00	11.821	0.940
1302.00	11.817	0.944
1307.00	11.815	0.947
1312.00	11.813	0.948
1317.00	11.810	0.952
1322.00	11.808	0.953
1327.00	11.804	0.957
1332.00	11.802	0.959
1337.00	11.800	0.961
1342.00	11.798	0.963
1347.00	11.796	0.966
1352.00	11.794	0.968
1357.00	11.791	0.971
1362.00	11.788	0.973
1367.00	11.786	0.976
1372.00	11.785	0.977
1377.00	11.783	0.979
1382.00	11.781	0.981
1387.00	11.780	0.982
1392.00	11.776	0.985
1397.00	11.775	0.986
1402.00	11.774	0.988

Table I13 Recovery data in the observation well, BL-0263, after the long-term aquifer test in the pumping well, SPW20-001 (4 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
1407.00	11.772	0.990
1412.00	11.770	0.991
1417.00	11.768	0.993
1422.00	11.767	0.994
1427.00	11.766	0.996
1432.00	11.765	0.997
1437.00	11.762	0.999
1467.00	11.755	1.006
1497.00	11.749	1.012
1527.00	11.744	1.017
1557.00	11.740	1.021
1587.00	11.732	1.030
1617.00	11.732	1.029
1647.00	11.732	1.029
1677.00	11.733	1.028
1707.00	11.735	1.026
1737.00	11.739	1.023
1767.00	11.743	1.018
1797.00	11.745	1.016
1827.00	11.747	1.015
1857.00	11.756	1.006
1887.00	11.761	1.000
1917.00	11.772	0.990
1947.00	11.782	0.979
1977.00	11.795	0.967
2007.00	11.806	0.955
2037.00	11.818	0.943
2067.00	11.837	0.924
2097.00	11.853	0.908
2127.00	11.869	0.892
2157.00	11.890	0.871
2187.00	11.911	0.850
2217.00	11.926	0.835
2247.00	11.934	0.827
2277.00	11.952	0.809
2307.00	11.976	0.785
2337.00	11.994	0.767
2367.00	12.017	0.744
2397.00	12.028	0.733
2427.00	12.042	0.719
2457.00	12.059	0.703
2487.00	12.076	0.685
2517.00	12.099	0.662
2547.00	12.113	0.648
2577.00	12.132	0.629
2607.00	12.147	0.615
2637.00	12.156	0.605

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
2667.00	12.166	0.595
2697.00	12.181	0.580
2727.00	12.196	0.565
2757.00	12.192	0.570
2787.00	12.196	0.566
2817.00	12.213	0.549
2847.00	12.226	0.535
2877.00	12.232	0.529
2907.00	12.238	0.524
2937.00	12.232	0.529
2967.00	12.229	0.532
2997.00	12.242	0.519
3027.00	12.251	0.510
3057.00	12.249	0.512
3087.00	12.272	0.489

Table I14 Recorded data in the observation well, SGH20-005, during the long-term aquifer test in the pumping well, SPW20-001 (1 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
0 (Static)	9.549	0.000
1155.50	19.812	10.263
1160.50	19.820	10.270
1165.50	19.825	10.276
1170.50	19.832	10.282
1175.50	19.839	10.290
1180.50	19.844	10.295
1185.50	19.849	10.300
1190.50	19.855	10.306
1195.50	19.861	10.312
1200.50	19.867	10.318
1205.50	19.870	10.321
1210.50	19.876	10.327
1215.50	19.882	10.332
1220.50	19.886	10.337
1225.50	19.891	10.342
1230.50	19.895	10.346
1235.50	19.900	10.351
1240.50	19.903	10.353
1245.50	19.908	10.358
1250.50	19.912	10.363
1255.50	19.917	10.367
1260.50	19.922	10.372
1265.50	19.925	10.375
1270.50	19.929	10.380
1275.50	19.933	10.384
1280.50	19.938	10.388
1285.50	19.942	10.392
1290.50	19.945	10.396
1295.50	19.948	10.399
1300.50	19.953	10.404
1305.50	19.957	10.408
1310.50	19.959	10.410
1315.50	19.963	10.413
1320.50	19.966	10.417
1325.50	19.969	10.420
1330.50	19.972	10.423
1335.50	19.973	10.424
1340.50	19.977	10.428
1345.50	19.980	10.431
1350.50	19.983	10.434
1355.50	19.986	10.436
1360.50	19.988	10.439
1365.50	19.992	10.443
1370.50	19.994	10.445
1375.50	19.999	10.449
1380.50	20.001	10.452

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
1385.50	20.005	10.456
1390.50	20.047	10.497
1395.50	20.049	10.500
1400.50	20.052	10.502
1405.50	20.054	10.505
1410.50	20.056	10.507
1415.50	20.057	10.508
1420.50	20.059	10.510
1425.50	20.062	10.513
1430.50	20.066	10.516
1435.50	20.067	10.518
1440.50	20.072	10.522
1470.50	20.089	10.539
1500.50	20.102	10.553
1530.50	20.116	10.567
1560.50	20.130	10.580
1590.50	20.147	10.597
1620.50	20.171	10.622
1650.50	20.188	10.639
1680.50	20.205	10.656
1710.50	20.223	10.673
1740.50	20.240	10.690
1770.50	20.254	10.705
1800.50	20.230	10.681
1830.50	20.243	10.694
1860.50	20.255	10.706
1890.50	20.269	10.719
1920.50	20.281	10.732
1950.50	20.293	10.744
1980.50	20.306	10.757
2010.50	20.318	10.768
2040.50	20.329	10.780
2070.50	20.339	10.790
2100.50	20.349	10.799
2130.50	20.357	10.808
2160.50	20.365	10.815
2190.50	20.373	10.823
2220.50	20.384	10.835
2250.50	20.390	10.840
2280.50	20.395	10.846
2310.50	20.398	10.849
2340.50	20.402	10.853
2370.50	20.405	10.856
2400.50	20.409	10.860
2430.50	20.418	10.869
2460.50	20.433	10.884
2490.50	20.441	10.892

Table I14 Recorded data in the observation well, SGH20-005, during the long-term aquifer test in the pumping well, SPW20-001 (2 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
2520.50	20.448	10.899
2550.50	20.458	10.909
2580.50	20.471	10.921
2610.50	20.487	10.938
2640.50	20.497	10.948
2670.50	20.505	10.956
2700.50	20.515	10.965
2730.50	20.520	10.971
2760.50	20.538	10.989
2790.50	20.517	10.968
2820.50	20.521	10.972
2850.50	20.521	10.972
2880.50	20.523	10.973
2910.50	20.525	10.976
2940.50	20.531	10.981
2970.50	20.536	10.987
3000.50	20.538	10.989
3030.50	20.543	10.994
3060.50	20.547	10.997
3090.50	20.550	11.001
3120.50	20.555	11.006
3150.50	20.555	11.006
3180.50	20.562	11.013
3210.50	20.579	11.029
3240.50	20.591	11.041
3270.50	20.599	11.049
3300.50	20.608	11.059
3330.50	20.614	11.064
3360.50	20.617	11.068
3390.50	20.625	11.076
3420.50	20.633	11.083
3480.50	20.645	11.095
3540.50	20.659	11.110
3600.50	20.669	11.120
3660.50	20.677	11.128
3720.50	20.688	11.139
3780.50	20.698	11.149
3840.50	20.717	11.167
3900.50	20.750	11.200
3960.50	20.764	11.214
4020.50	20.779	11.229
4080.50	20.795	11.246
4140.50	20.811	11.262
4200.50	20.830	11.281
4260.50	20.851	11.302
4320.50	20.866	11.317
4380.50	20.898	11.349

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
4440.50	20.909	11.360
4500.50	20.922	11.372
4560.50	20.937	11.388
4620.50	20.954	11.405
4680.50	20.958	11.408
4740.50	20.976	11.426
4800.50	20.989	11.440
4860.50	21.008	11.459
4920.50	21.038	11.489
4980.50	21.045	11.496
5040.50	21.052	11.502
5100.50	21.058	11.509
5160.50	21.063	11.514
5220.50	21.067	11.518
5280.50	21.077	11.527
5340.50	21.082	11.532
5400.50	21.132	11.583
5460.50	21.144	11.595
5520.50	21.162	11.613
5580.50	21.180	11.631
5640.50	21.195	11.645
5700.50	21.208	11.659
5760.50	21.219	11.669
5820.50	21.282	11.733
5880.50	21.291	11.742
5940.50	21.298	11.748
6000.50	21.304	11.755
6060.50	21.305	11.756
6120.50	21.316	11.767
6180.50	21.316	11.766
6240.50	21.319	11.769
6300.50	21.319	11.770
6360.50	21.322	11.772
6420.50	21.321	11.772
6480.50	21.321	11.772
6540.50	21.331	11.782
6600.50	21.337	11.788
6660.50	21.339	11.790
6720.50	21.338	11.789
6780.50	21.344	11.795
6840.50	21.395	11.846
6900.50	21.395	11.845
6960.50	21.393	11.844
7020.50	21.388	11.839
7080.50	21.388	11.839
7140.50	21.393	11.844
7200.50	21.395	11.846

Table I14 Recorded data in the observation well, SGH20-005, during the long-term aquifer test in the pumping well, SPW20-001 (3 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
7260.50	21.257	11.707
7320.50	21.257	11.708
7380.50	21.261	11.712
7440.50	21.265	11.715
7500.50	21.273	11.724
7560.50	21.313	11.764
7620.50	21.345	11.795
7680.50	21.319	11.769
7740.50	21.327	11.777
7800.50	21.336	11.787
7860.50	21.343	11.794
7920.50	21.347	11.798
7980.50	21.354	11.805
8040.50	21.355	11.806
8100.50	21.355	11.805
8160.50	21.356	11.806
8220.50	21.350	11.801
8280.50	21.346	11.797
8340.50	21.342	11.793
8400.50	21.339	11.789
8460.50	21.334	11.785
8520.50	21.330	11.781
8580.50	21.329	11.780
8640.50	21.329	11.780
8700.50	21.332	11.783
8760.50	21.334	11.784
8820.50	21.334	11.785
8880.50	21.338	11.789
8940.50	21.349	11.799
9000.50	21.344	11.795
9060.50	21.344	11.795
9120.50	21.343	11.794
9180.50	21.339	11.789
9240.50	21.338	11.789
9300.50	21.334	11.785
9360.50	21.329	11.780
9420.50	21.328	11.778
9480.50	21.326	11.777
9540.50	21.323	11.774
9600.50	21.319	11.770
9660.50	21.409	11.860
9720.50	21.330	11.781
9780.50	21.330	11.781
9840.50	21.324	11.775
9900.50	21.318	11.769
9960.50	21.317	11.767
10020.50	21.316	11.767

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
10080.50	21.321	11.771
10140.50	21.319	11.770
10200.50	21.323	11.774
10260.50	21.341	11.792
10320.50	21.344	11.794
10380.50	21.344	11.795
10440.50	21.344	11.794
10500.50	21.344	11.794
10560.50	21.345	11.795
10620.50	21.349	11.800
10680.50	21.345	11.796
10740.50	21.345	11.796
10800.50	21.347	11.797
10860.50	21.345	11.796
10920.50	21.351	11.801
10980.50	21.373	11.823
11040.50	21.386	11.837
11100.50	21.391	11.841
11160.50	21.389	11.840
11220.50	21.386	11.837
11280.50	21.373	11.824
11340.50	21.353	11.804
11400.50	21.357	11.808
11460.50	21.367	11.818
11520.50	21.386	11.836
11580.50	21.389	11.840
11640.50	21.401	11.852
11700.50	21.409	11.860
11760.50	21.417	11.868
11820.50	21.421	11.872
11880.50	21.425	11.876
11940.50	21.427	11.877
12000.50	21.427	11.878
12060.50	21.427	11.878
12120.50	21.424	11.875
12180.50	21.421	11.872
12240.50	21.421	11.872
12300.50	21.417	11.868
12360.50	21.417	11.868
12420.50	21.419	11.870
12480.50	21.421	11.872
12540.50	21.501	11.952
12600.50	21.500	11.951
12660.50	21.497	11.948
12720.50	21.498	11.949
12780.50	21.497	11.948
12850.50	21.464	11.915

Table I14 Recorded data in the observation well, SGH20-005, during the long-term aquifer test in the pumping well, SPW20-001 (4 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
12900.50	21.169	11.619
12960.50	21.963	12.414
13020.50	22.671	13.121
13080.50	22.660	13.111
13140.50	22.658	13.108
13200.50	22.597	13.048
13260.50	22.588	13.039
13320.50	22.349	12.800
13380.50	22.354	12.805
13440.50	22.375	12.826
13500.50	22.386	12.837
13560.50	22.395	12.846
13620.50	22.403	12.853
13680.50	22.418	12.869
13740.50	22.429	12.880
13800.50	22.439	12.890
13860.50	22.452	12.903
13920.50	22.465	12.915
13980.50	22.475	12.926
14040.50	22.630	13.080
14100.50	22.715	13.165
14160.50	22.759	13.210
14220.50	22.787	13.237
14280.50	22.806	13.256
14340.50	22.826	13.277
14400.50	22.840	13.291
14460.50	22.835	13.285
14520.50	22.848	13.298
14580.50	22.859	13.310
14640.50	22.868	13.319
14700.50	22.878	13.329
14760.50	22.971	13.422
14820.50	22.975	13.426
14880.50	22.978	13.429
14940.50	22.980	13.431
15000.50	22.983	13.434
15060.50	22.987	13.438
15120.50	22.991	13.441
15180.50	22.996	13.447
15240.50	23.002	13.453
15300.50	23.009	13.459
15360.50	23.013	13.464
15420.50	22.885	13.336
15480.50	22.891	13.342
15540.50	22.898	13.348
15600.50	22.892	13.343
15660.50	22.891	13.342

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
15720.50	22.892	13.343
15780.50	22.895	13.346
15840.50	22.897	13.347
15900.50	22.899	13.350
15960.50	22.903	13.354
16020.50	22.909	13.359
16080.50	22.911	13.362
16140.50	22.916	13.367
16200.50	22.918	13.368
16260.50	22.917	13.367
16320.50	22.916	13.367
16380.50	22.916	13.367
16440.50	22.915	13.365
16500.50	22.910	13.361
16560.50	22.908	13.358
16620.50	22.905	13.356
16680.50	22.907	13.358
16740.50	22.908	13.359
16800.50	22.909	13.359
16860.50	22.911	13.362
16920.50	22.917	13.368
16980.50	22.916	13.366
17040.50	22.913	13.364
17100.50	22.909	13.360
17160.50	22.905	13.356
17220.50	22.922	13.372
17280.50	22.918	13.368
17340.50	22.915	13.366
17400.50	22.914	13.364
17460.50	22.912	13.362
17520.50	22.913	13.364
17580.50	22.915	13.366
17640.50	22.920	13.371
17700.50	22.916	13.367
17760.50	22.914	13.365
17820.50	22.906	13.357
17880.50	22.904	13.355
17940.50	22.895	13.346
18000.50	22.890	13.340
18060.50	22.885	13.336
18120.50	22.878	13.329
18180.50	22.873	13.324
18240.50	22.596	13.046
18300.50	22.837	13.288
18360.50	22.937	13.388
18420.50	22.990	13.441
18480.50	23.002	13.453

Table I14 Recorded data in the observation well, SGH20-005, during the long-term aquifer test in the pumping well, SPW20-001 (5 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
18540.50	23.012	13.463
18600.50	23.024	13.475
18660.50	23.019	13.470
18720.50	23.015	13.466
18780.50	23.007	13.457
18840.50	23.020	13.471
18900.50	23.031	13.481
18960.50	23.043	13.493
19020.50	23.056	13.507
19080.50	23.066	13.516
19140.50	23.080	13.530
19200.50	23.087	13.537
19260.50	23.093	13.544
19320.50	23.089	13.540
19380.50	23.090	13.541
19440.50	23.091	13.541
19500.50	23.090	13.541
19560.50	23.092	13.543
19620.50	23.095	13.546
19680.50	23.120	13.571
19740.50	23.123	13.573
19800.50	23.134	13.585
19860.50	23.141	13.592
19920.50	23.146	13.596
19980.50	23.149	13.600
20040.50	23.147	13.598
20100.50	23.149	13.599
20160.50	23.147	13.598
20220.50	23.126	13.577
20280.50	23.127	13.578
20340.50	23.126	13.577
20400.50	23.131	13.582
20460.50	23.137	13.588
20520.50	23.142	13.593
20580.50	23.147	13.598
20640.50	23.153	13.603
20700.50	23.154	13.605
20760.50	23.156	13.606
20820.50	23.154	13.605
20880.50	23.152	13.602
20940.50	23.153	13.603
21000.50	23.150	13.600
21060.50	23.146	13.596
21120.50	23.152	13.603
21180.50	23.159	13.610
21240.50	23.164	13.615
21300.50	23.168	13.619

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
21360.50	23.172	13.623
21420.50	23.170	13.620
21480.50	23.174	13.625
21540.50	23.172	13.623
21600.50	23.172	13.622
21660.50	23.203	13.653
21720.50	23.204	13.655
21780.50	23.190	13.641
21840.50	23.188	13.639
21900.50	23.192	13.642
21960.50	23.196	13.647
22020.50	23.203	13.653
22080.50	23.203	13.654
22140.50	23.205	13.656
22200.50	23.212	13.663
22260.50	23.206	13.657
22320.50	23.202	13.652
22380.50	23.200	13.651
22440.50	23.196	13.647
22500.50	23.194	13.644
22560.50	23.194	13.645
22620.50	23.198	13.648
22680.50	23.201	13.652
22740.50	23.196	13.647
22800.50	23.192	13.643
22860.50	23.193	13.643
22920.50	23.188	13.639
22980.50	23.184	13.635
23040.50	23.181	13.632
23100.50	23.120	13.571
23160.50	23.123	13.574
23220.50	23.124	13.574
23280.50	23.124	13.575
23340.50	23.131	13.581
23400.50	23.135	13.585
23460.50	23.140	13.591
23520.50	23.146	13.597
23580.50	23.147	13.598
23640.50	23.148	13.599
23700.50	23.148	13.599
23760.50	23.145	13.595
23820.50	23.147	13.597
23880.50	23.147	13.597
23940.50	23.147	13.597
24000.50	23.147	13.598
24060.50	23.148	13.599
24120.50	23.144	13.595

Table I14 Recorded data in the observation well, SGH20-005, during the long-term aquifer test in the pumping well, SPW20-001 (6 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
24180.50	23.142	13.593
24240.50	23.142	13.592
24300.50	23.136	13.587
24360.50	23.009	13.460
24420.50	23.037	13.488
24480.50	23.043	13.494
24540.50	23.043	13.493
24600.50	23.047	13.498
24660.50	23.051	13.502
24720.50	23.057	13.507
24780.50	23.066	13.517
24840.50	23.070	13.521
24900.50	23.072	13.523
24960.50	23.079	13.529
25020.50	23.081	13.531
25080.50	23.083	13.534
25140.50	23.088	13.539
25200.50	23.088	13.539
25260.50	23.086	13.537
25320.50	23.082	13.533
25380.50	23.079	13.530
25440.50	23.076	13.527
25500.50	23.077	13.528
25560.50	23.077	13.527
25620.50	23.076	13.527
25680.50	23.082	13.533
25740.50	23.086	13.537
25800.50	23.086	13.537
25860.50	23.089	13.540
25920.50	23.086	13.537
25980.50	23.088	13.539
26040.50	23.101	13.552
26100.50	23.121	13.572
26160.50	23.129	13.580
26220.50	23.137	13.588
26280.50	23.133	13.583
26340.50	23.135	13.586
26400.50	23.137	13.587
26460.50	23.143	13.594
26520.50	23.153	13.604
26580.50	23.158	13.608
26640.50	23.161	13.611
26700.50	23.165	13.615
26760.50	23.164	13.615
26820.50	23.161	13.611
26880.50	23.163	13.614
26940.50	23.163	13.614

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
27000.50	23.164	13.614
27060.50	23.161	13.612
27120.50	23.163	13.614
27180.50	23.168	13.619
27240.50	22.880	13.331
27300.50	22.894	13.344
27360.50	22.973	13.423
27420.50	23.017	13.468
27480.50	23.051	13.501
27540.50	23.071	13.521
27600.50	23.086	13.537
27660.50	23.099	13.550
27720.50	23.108	13.559
27780.50	23.118	13.568
27840.50	23.126	13.577
27900.50	23.131	13.581
27960.50	23.136	13.587
28020.50	23.140	13.590
28080.50	23.143	13.594
28140.50	23.146	13.597
28200.50	23.146	13.596
28260.50	23.141	13.591
28320.50	23.134	13.584
28380.50	23.134	13.585
28440.50	23.135	13.586
28500.50	23.135	13.586
28560.50	23.132	13.583
28620.50	23.132	13.582
28680.50	23.130	13.581
28740.50	23.151	13.602
28800.50	23.189	13.640
28860.50	23.211	13.661
28920.50	23.226	13.676
28980.50	23.239	13.690
29040.50	23.246	13.697
29100.50	23.255	13.706
29160.50	23.260	13.710
29220.50	23.266	13.717
29280.50	23.274	13.725
29340.50	23.282	13.733
29400.50	23.284	13.735
29460.50	23.286	13.737
29520.50	23.288	13.738
29580.50	23.290	13.741
29640.50	23.293	13.744
29700.50	23.292	13.742
29760.50	23.300	13.751

Table I14 Recorded data in the observation well, SGH20-005, during the long-term aquifer test in the pumping well, SPW20-001 (7 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
29820.50	23.307	13.757
29880.50	23.318	13.768
29940.50	23.321	13.772
30000.50	23.322	13.773
30060.50	23.333	13.783
30120.50	23.348	13.799
30180.50	23.367	13.817
30240.50	23.427	13.878
30300.50	23.458	13.909
30360.50	23.479	13.930
30420.50	23.495	13.946
30480.50	23.512	13.963
30540.50	23.526	13.977
30600.50	23.538	13.989
30660.50	23.550	14.001
30720.50	23.558	14.009
30780.50	23.565	14.015
30840.50	23.575	14.026
30900.50	23.580	14.031
30960.50	23.586	14.037
31020.50	23.593	14.044
31080.50	23.599	14.050
31140.50	23.603	14.054
31200.50	23.606	14.057
31260.50	23.615	14.065
31320.50	23.606	14.057
31380.50	23.615	14.066
31440.50	23.617	14.068
31500.50	23.618	14.069
31560.50	23.597	14.047
31620.50	23.543	13.994
31680.50	23.561	14.011
31740.50	23.563	14.014
31800.50	23.574	14.025
31860.50	23.584	14.034
31920.50	23.590	14.041
31980.50	23.597	14.048
32040.50	23.603	14.054
32100.50	23.605	14.056
32160.50	23.609	14.060
32220.50	23.612	14.063
32280.50	23.613	14.064
32340.50	23.614	14.064
32400.50	23.618	14.068
32460.50	23.628	14.078
32520.50	23.629	14.079
32580.50	23.629	14.080

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
32640.50	23.633	14.084
32700.50	23.631	14.081
32760.50	23.630	14.081
32820.50	23.631	14.082
32880.50	23.630	14.081
32940.50	23.630	14.081
33000.50	23.628	14.079
33060.50	23.630	14.080
33120.50	23.627	14.078
33180.50	23.630	14.081
33240.50	23.634	14.085
33300.50	23.641	14.092
33360.50	23.652	14.103
33420.50	23.685	14.136
33480.50	23.689	14.140
33540.50	23.696	14.146
33600.50	23.699	14.150
33660.50	23.704	14.154
33720.50	23.701	14.152
33780.50	23.702	14.152
33840.50	23.702	14.153
33900.50	23.704	14.154
33960.50	23.704	14.155
34020.50	23.706	14.156
34080.50	23.707	14.157
34140.50	23.707	14.157
34200.50	23.709	14.160
34260.50	23.706	14.156
34320.50	23.704	14.155
34380.50	23.703	14.154
34440.50	23.701	14.152
34500.50	23.708	14.159
34560.50	23.709	14.160
34620.50	23.710	14.161
34680.50	23.714	14.164
34740.50	23.716	14.167
34800.50	23.719	14.169
34860.50	23.723	14.174
34920.50	23.725	14.176
34980.50	23.727	14.177
35040.50	23.724	14.174
35100.50	23.720	14.170
35160.50	23.715	14.166
35220.50	23.709	14.160
35280.50	23.710	14.160
35340.50	23.708	14.159
35400.50	23.708	14.159

Table I14 Recorded data in the observation well, SGH20-005, during the long-term aquifer test in the pumping well, SPW20-001 (8 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
35460.50	23.708	14.159
35520.50	23.711	14.162
35580.50	23.713	14.164
35640.50	23.714	14.165
35700.50	23.715	14.165
35760.50	23.711	14.162
35820.50	23.707	14.158
35880.50	23.656	14.107
35940.50	23.671	14.122
36000.50	23.679	14.129
36060.50	23.680	14.131
36120.50	23.685	14.136
36180.50	23.690	14.140
36240.50	23.693	14.144
36300.50	23.699	14.150
36360.50	23.701	14.152
36420.50	23.704	14.155
36480.50	23.705	14.155
36540.50	23.703	14.153
36600.50	23.699	14.150
36660.50	23.702	14.152
36720.50	23.702	14.153
36780.50	23.702	14.153
36840.50	23.700	14.151
36900.50	23.699	14.150
36960.50	23.700	14.151
37020.50	23.701	14.152
37080.50	23.704	14.154
37140.50	23.705	14.155
37200.50	23.700	14.151
37260.50	23.700	14.151
37320.50	23.696	14.146
37380.50	23.714	14.165
37440.50	23.723	14.174
37500.50	23.727	14.178
37560.50	23.731	14.182
37620.50	23.739	14.190
37680.50	23.754	14.204
37740.50	23.760	14.211
37800.50	23.773	14.223
37860.50	23.785	14.235
37920.50	23.792	14.243
37980.50	23.796	14.246
38040.50	23.797	14.247
38100.50	23.793	14.244
38160.50	23.792	14.243
38220.50	23.792	14.243

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
38280.50	23.791	14.242
38340.50	23.789	14.240
38400.50	23.791	14.242
38460.50	23.796	14.247
38520.50	23.801	14.252
38580.50	23.803	14.254
38640.50	23.804	14.254
38700.50	23.804	14.254
38760.50	23.798	14.249
38820.50	23.809	14.259
38880.50	23.889	14.340
38940.50	23.954	14.405
39000.50	24.018	14.469
39060.50	24.059	14.509
39120.50	24.093	14.544
39180.50	24.177	14.628
39240.50	24.266	14.717
39300.50	24.310	14.760
39360.50	24.340	14.790
39420.50	24.376	14.826
39480.50	24.393	14.844
39540.50	24.411	14.862
39600.50	24.418	14.869
39660.50	24.417	14.868
39720.50	24.420	14.871
39780.50	24.428	14.879
39840.50	24.438	14.889
39900.50	24.447	14.898
39960.50	24.460	14.911
40020.50	24.471	14.922
40080.50	24.483	14.933
40140.50	24.495	14.945
40200.50	24.498	14.949
40260.50	24.499	14.949
40320.50	24.506	14.956
40380.50	24.509	14.960
40440.50	24.515	14.965
40500.50	24.520	14.970
40560.50	24.525	14.975
40620.50	24.572	15.022
40680.50	24.628	15.079
40740.50	24.644	15.095
40800.50	24.653	15.104
40860.50	24.659	15.110
40920.50	24.663	15.114
40980.50	24.664	15.115
41040.50	24.664	15.114

Table I14 Recorded data in the observation well, SGH20-005, during the long-term aquifer test in the pumping well, SPW20-001 (9 of 9).

Time *t (min)*	**Depth** *(m)*	**Drawdown** *dd (m)*
41100.50	24.665	15.116
41160.50	24.664	15.115
41220.50	24.660	15.111
41280.50	24.662	15.113
41340.50	24.666	15.117
41400.50	24.668	15.118
41460.50	24.673	15.123

Table I15 Recovery data in the observation well, SGH20-005, after the long-term aquifer test in the pumping well, SPW20-001 (1 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
0 (Start)	24.674	0.000
2.00	24.675	0.000
7.00	24.674	0.000
12.00	24.676	-0.002
17.00	24.676	-0.001
22.00	24.676	-0.002
27.00	24.675	-0.001
32.00	24.676	-0.002
37.00	24.676	-0.002
42.00	24.677	-0.002
47.00	24.676	-0.002
52.00	24.676	-0.002
57.00	24.677	-0.002
62.00	24.645	0.029
67.00	24.542	0.132
72.00	24.420	0.255
77.00	24.293	0.381
82.00	24.169	0.506
87.00	24.049	0.625
92.00	23.936	0.739
97.00	23.824	0.850
102.00	23.716	0.959
107.00	23.614	1.060
112.00	23.513	1.161
117.00	23.418	1.256
122.00	23.320	1.354
127.00	23.230	1.444
132.00	23.143	1.531
137.00	23.056	1.618
142.00	22.974	1.700
147.00	22.895	1.780
152.00	22.818	1.856
157.00	22.743	1.931
162.00	22.669	2.006
167.00	22.598	2.076
172.00	22.529	2.145
177.00	22.463	2.211
182.00	22.400	2.274
187.00	22.339	2.335
192.00	22.278	2.396
197.00	22.217	2.457
202.00	22.162	2.512
207.00	22.105	2.569
212.00	22.051	2.624
217.00	21.998	2.676
222.00	21.948	2.727
227.00	21.897	2.778
232.00	21.845	2.829
237.00	21.796	2.879
242.00	21.748	2.926
247.00	21.701	2.973
252.00	21.657	3.017
257.00	21.614	3.060
262.00	21.571	3.103
267.00	21.528	3.147
272.00	21.488	3.186
277.00	21.447	3.227
282.00	21.408	3.266
287.00	21.368	3.306
292.00	21.328	3.346
297.00	21.289	3.385
302.00	21.251	3.423
307.00	21.213	3.461
312.00	21.175	3.499
317.00	21.138	3.536
322.00	21.101	3.573
327.00	21.067	3.607
332.00	21.034	3.641
337.00	21.000	3.674
342.00	20.968	3.706
347.00	20.935	3.739
352.00	20.903	3.771
357.00	20.872	3.802
362.00	20.839	3.835
367.00	20.810	3.864
372.00	20.778	3.896
377.00	20.749	3.926
382.00	20.716	3.958
387.00	20.687	3.988
392.00	20.655	4.019
397.00	20.624	4.050
402.00	20.592	4.083
407.00	20.560	4.114
412.00	20.528	4.146
417.00	20.498	4.177
422.00	20.468	4.206
427.00	20.439	4.235
432.00	20.410	4.265
437.00	20.380	4.294
442.00	20.353	4.322
447.00	20.322	4.352
452.00	20.294	4.380
457.00	20.264	4.411
462.00	20.234	4.440

Table I15 Recovery data in the observation well, SGH20-005, after the long-term aquifer test in the pumping well, SPW20-001 (2 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
467.00	20.208	4.466
472.00	20.180	4.494
477.00	20.153	4.521
482.00	20.127	4.547
487.00	20.099	4.575
492.00	20.074	4.600
497.00	20.048	4.626
502.00	20.022	4.652
507.00	19.998	4.676
512.00	19.972	4.703
517.00	19.946	4.729
522.00	19.920	4.755
527.00	19.895	4.779
532.00	19.868	4.806
537.00	19.841	4.833
542.00	19.817	4.858
547.00	19.793	4.881
552.00	19.769	4.905
557.00	19.745	4.929
562.00	19.721	4.953
567.00	19.697	4.978
572.00	19.673	5.001
577.00	19.650	5.024
582.00	19.625	5.049
587.00	19.602	5.072
592.00	19.578	5.096
597.00	19.555	5.119
602.00	19.531	5.143
607.00	19.507	5.167
612.00	19.483	5.191
617.00	19.460	5.214
622.00	19.438	5.236
627.00	19.414	5.260
632.00	19.392	5.282
637.00	19.372	5.302
642.00	19.351	5.323
647.00	19.330	5.344
652.00	19.310	5.364
657.00	19.289	5.385
662.00	19.271	5.403
667.00	19.251	5.423
672.00	19.231	5.443
677.00	19.212	5.462
682.00	19.192	5.482
687.00	19.172	5.502
692.00	19.152	5.522
697.00	19.132	5.542

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
702.00	19.113	5.561
707.00	19.094	5.580
712.00	19.075	5.599
717.00	19.057	5.617
722.00	19.038	5.637
727.00	19.019	5.655
732.00	19.001	5.673
737.00	18.980	5.694
742.00	18.964	5.711
747.00	18.944	5.731
752.00	18.926	5.748
757.00	18.908	5.767
762.00	18.888	5.786
767.00	18.871	5.804
772.00	18.851	5.823
777.00	18.832	5.842
782.00	18.814	5.860
787.00	18.795	5.879
792.00	18.775	5.899
797.00	18.758	5.916
802.00	18.739	5.935
807.00	18.722	5.953
812.00	18.704	5.970
817.00	18.687	5.988
822.00	18.669	6.005
827.00	18.651	6.023
832.00	18.634	6.040
837.00	18.617	6.057
842.00	18.600	6.074
847.00	18.584	6.090
852.00	18.565	6.109
857.00	18.550	6.124
862.00	18.531	6.143
867.00	18.515	6.159
872.00	18.499	6.175
877.00	18.482	6.192
882.00	18.467	6.207
887.00	18.449	6.225
892.00	18.435	6.240
897.00	18.420	6.254
902.00	18.404	6.270
907.00	18.390	6.285
912.00	18.375	6.299
917.00	18.360	6.314
922.00	18.346	6.329
927.00	18.330	6.344
932.00	18.315	6.359

Table I15 Recovery data in the observation well, SGH20-005, after the long-term aquifer test in the pumping well, SPW20-001 (3 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
937.00	18.301	6.373
942.00	18.286	6.388
947.00	18.272	6.402
952.00	18.258	6.416
957.00	18.242	6.432
962.00	18.227	6.447
967.00	18.213	6.461
972.00	18.199	6.475
977.00	18.185	6.489
982.00	18.170	6.504
987.00	18.156	6.518
992.00	18.143	6.531
997.00	18.129	6.545
1002.00	18.117	6.557
1007.00	18.104	6.570
1012.00	18.090	6.584
1017.00	18.078	6.596
1022.00	18.065	6.609
1027.00	18.053	6.621
1032.00	18.040	6.634
1037.00	18.027	6.647
1042.00	18.015	6.659
1047.00	18.003	6.671
1052.00	17.991	6.684
1057.00	17.978	6.696
1062.00	17.966	6.708
1067.00	17.953	6.721
1072.00	17.940	6.734
1077.00	17.929	6.745
1082.00	17.917	6.757
1087.00	17.906	6.769
1092.00	17.893	6.781
1097.00	17.882	6.792
1102.00	17.871	6.803
1107.00	17.860	6.815
1112.00	17.848	6.826
1117.00	17.836	6.838
1122.00	17.824	6.851
1127.00	17.813	6.862
1132.00	17.801	6.873
1137.00	17.789	6.885
1142.00	17.778	6.896
1147.00	17.767	6.907
1152.00	17.755	6.919
1157.00	17.744	6.930
1162.00	17.732	6.942
1167.00	17.721	6.953

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
1172.00	17.710	6.964
1177.00	17.699	6.975
1182.00	17.689	6.985
1187.00	17.679	6.995
1192.00	17.668	7.006
1197.00	17.657	7.017
1202.00	17.649	7.026
1207.00	17.638	7.036
1212.00	17.625	7.049
1217.00	17.616	7.059
1222.00	17.606	7.068
1227.00	17.596	7.079
1232.00	17.586	7.088
1237.00	17.576	7.098
1242.00	17.568	7.107
1247.00	17.558	7.116
1252.00	17.548	7.126
1257.00	17.540	7.135
1262.00	17.530	7.144
1267.00	17.520	7.155
1272.00	17.511	7.164
1277.00	17.501	7.173
1282.00	17.491	7.183
1287.00	17.483	7.191
1292.00	17.474	7.200
1297.00	17.466	7.209
1302.00	17.456	7.219
1307.00	17.447	7.227
1312.00	17.438	7.236
1317.00	17.431	7.243
1322.00	17.421	7.253
1327.00	17.413	7.262
1332.00	17.405	7.269
1337.00	17.396	7.278
1342.00	17.388	7.286
1347.00	17.380	7.294
1352.00	17.371	7.304
1357.00	17.361	7.313
1362.00	17.354	7.321
1367.00	17.345	7.329
1372.00	17.337	7.337
1377.00	17.329	7.345
1382.00	17.320	7.354
1387.00	17.311	7.363
1392.00	17.304	7.370
1397.00	17.295	7.379
1402.00	17.287	7.387

Table I15 Recovery data in the observation well, SGH20-005, after the long-term aquifer test in the pumping well, SPW20-001 (4 of 4).

Time *(min)*	**Depth** *(m)*	**Recovery** *(m)*
1407.00	17.280	7.394
1412.00	17.272	7.402
1417.00	17.264	7.410
1422.00	17.256	7.419
1427.00	17.247	7.427
1432.00	17.239	7.435
1437.00	17.230	7.445
1467.00	17.183	7.491
1497.00	17.137	7.537
1527.00	17.090	7.585
1557.00	17.041	7.633
1587.00	16.991	7.683
1617.00	16.949	7.726
1647.00	16.904	7.771
1677.00	16.862	7.812
1707.00	16.823	7.851
1737.00	16.785	7.889
1767.00	16.748	7.926
1797.00	16.709	7.965
1827.00	16.674	8.000
1857.00	16.641	8.033
1887.00	16.608	8.066
1917.00	16.578	8.096
1947.00	16.548	8.126
1977.00	16.519	8.155
2007.00	16.491	8.183
2037.00	16.464	8.210
2067.00	16.441	8.233
2097.00	16.416	8.258
2127.00	16.394	8.280
2157.00	16.370	8.304
2187.00	16.350	8.325
2217.00	16.328	8.346
2247.00	16.307	8.368
2277.00	16.285	8.390
2307.00	16.264	8.410
2337.00	16.241	8.433
2367.00	16.220	8.454
2397.00	16.195	8.480
2427.00	16.173	8.502
2457.00	16.150	8.524
2487.00	16.129	8.546
2517.00	16.108	8.567
2547.00	16.086	8.588
2577.00	16.064	8.610
2607.00	16.043	8.631
2637.00	16.022	8.652
2667.00	16.006	8.668
2697.00	15.992	8.682
2727.00	15.974	8.700
2757.00	15.955	8.720
2787.00	15.935	8.739
2817.00	15.921	8.753
2847.00	15.904	8.770
2877.00	15.886	8.788
2907.00	15.870	8.804
2937.00	15.852	8.822
2967.00	15.836	8.839
2997.00	15.823	8.851
3027.00	15.806	8.868
3057.00	15.788	8.886
3087.00	15.780	8.894
3117.00	15.768	8.906
3127.00	15.762	8.913