

October 28, 2023

U.S. Environmental Protection Agency, Region 9
Drinking Water Protection Section (WTR 4-2)
75 Hawthorne Street
San Francisco, California 94105

Attention: David Albright, Manager, Ground Water Office

Subject: Third Quarter 2023 Monitoring Report
Underground Injection Control (UIC) Permit No. R9UIC-AZ3-FY11-1

Dear Mr. Albright:

Florence Copper LLC (Florence Copper) is regulated under UIC Permit No. R9UIC-AZ3-FY11-1, issued December 20, 2016, for a Production Test Facility (PTF). The facility began active operations on December 15, 2018. The rinsing demonstration for the PTF began on June 26, 2020. This report outlines the reporting requirements in accordance with Part II.G.2 of that Permit.

Background Information

The Florence Copper Project is an in-situ copper extraction facility subject to two related permits issued by the U.S. Environmental Protection Agency (USEPA) and the Arizona Department of Environmental Quality (ADEQ).

Aquifer Protection Permit (APP) Covering all Past and Future In Situ Copper Recovery (ISCR) Operations:

- ADEQ APP No. P-101704 (LTF 88973) dated April 30, 2021.

Prior to the amended permit issued on December 8, 2020, the Florence Copper Project was regulated under APP No. P-101704 (LTF 65804) dated October 13, 2017.

Underground Injection Control (UIC) Permit Covering the Current PTF:

- USEPA UIC Permit No. R9UIC-AZ3-FY11-1 dated December 20, 2016.

This permit authorizes operation of the PTF and sets forth separate monitoring requirements to be applied at the PTF, which lies within the area covered by the APP. The UIC facilities and monitoring wells are identified on Figure 1. The configuration of the PTF wellfield is shown on Figure 2. The facility received authorization to proceed with pre-operational activities on July 13, 2017, and the PTF wellfield was completed and began operations on December 15, 2018. The rinsing activities for the PTF began on June 26, 2020. Solutions from the wellfield continued to be processed through the Solvent Extraction/Electrowinning (SX/EW) plant to produce copper until October 29, 2020. Wellfield rinsing activities are ongoing.

This report documents monitoring activities required by the UIC permit during Q3 2023. Reporting for the APP is performed separately; however, some information pertains to multiple permits and is reported accordingly.

PTF Operations Quarterly Reporting

■ Part II.G.2.a – Map of Operational Status and Groundwater Contours

The monthly groundwater contour maps are included as Attachment 1. The operational status of the PTF facility was ACTIVE during Q3 2023 while rinsing is ongoing.

■ Part II.G.2.b – Table and Graphs of Injected and Recovered Volumes

The daily cumulative injection and recovery volumes and the daily percent recovery to injection volume values are provided in tabular and graphical format in Attachment 2. Throughout Q3 2023, the extracted volume has consistently exceeded the injected volume by 10 percent or more, and the monthly average injection rate remained below the 240-gallon-per-minute limit.

■ Part II.G.2.c – Table and Graphs of the Well Head Measurements in the PTF

The daily average head measurement values for the observation wells and recovery wells are provided in tabular and graphical format in Attachment 3. The hydraulic gradient has been maintained with a greater than 1-foot differential as a daily average for all paired wells throughout Q3 2023.

■ Part II.G.2.d – Table and Graphs of Fluid Electrical Conductivity Measurements

Fluid electrical conductivity (EC) values are provided in tabular and graphical format in Attachment 4. As expected, fluid EC in the injection and observation wells was comparable during the monitoring period. Throughout the monitoring period, the PTF wellfield was being rinsed and no injection of in-situ copper recovery fluids took place.

■ Part II.G.2.e – Table and Graphs of Bulk Electrical Conductivity Measurements

Bulk EC values are provided in tabular and graphical format in Attachment 5. No bulk EC alert level (AL) exceedances occurred during Q3 2023.

■ Part II.G.2.f – Table and Graphs of Monitor Well Water Levels and Analytical Results

The Q3 2023 Compliance Monitoring Report is provided in Attachment 6 and presents the tabular results of groundwater elevations, analytical results, field parameters, and ALs and aquifer quality limits for wells regulated under the UIC permit and APP. The Compliance Monitoring Report also provides a narrative summary of the Q3 2023 monitoring activities, a discussion of exceedances, and graphical presentation of monitoring results for a select set of parameters since the inception of monitoring.

■ Part II.G.2.g – Results of Monthly Lixiviant Organic Analysis

The analytical results for monthly lixiviant organic analysis are provided in tabular format in Attachment 7. Total monthly organic concentrations were below the maximum allowable average in Q3 2023.

■ **Part II.G.2.h – Results of Monitoring Required if Injection Fluid is Modified**

During Q3 2023, rinsing activities continued in the PTF. As part of the ongoing rinsing activities, sodium bicarbonate was added to the injection fluid beginning on January 26, 2022. Routine monthly analysis of the rinsing solution was completed during Q3 2023 and will continue during the rinsing demonstration.

■ **Part II.G.2.i – Results of Mechanical Integrity Testing**

Temperature logging of multi-level sampling wells WB-01, WB02, WB-03, and WB-04 were conducted during Q3 2023 to demonstrate mechanical integrity. A summary of results is provided in Attachment 8. Temperature logs in each of the four multi-level sampling wells showed no anomalies that would indicate there is flow outside of the well casings.

■ **Part II.G.2.j – Results of Annular Conductivity Device (ACD) Monitoring**

The results of the Q3 2023 well bore annular EC monitoring are provided in Attachment 9. Annular EC measurements in Q3 2023 are different in various Westbay and observation wells than values previously observed. The changed values include both increases and decreases in resistivity. Florence Copper has conducted an investigation to determine the cause of this variability and has determined it to be the result of electrical noise associated with changes in the operation of electrical equipment in the wellfield.

■ **Part II.G.2.k – Summary of Plugging and Abandonment Activity**

No wells associated with this permit were abandoned during Q3 2023; therefore, no abandonment report is included for this monitoring period. For future quarterly compliance reports, the Well Abandonment Report will be provided in Attachment 10.

■ **Part II.G.2.l – Summary of Closure Operations**

The SX/EW plant ceased operation on October 29, 2020. Wellfield rinsing that began in 2020 has continued through Q3 2023. No closure activities were initiated in this monitoring period.

■ **Part II.G.2.m – Table of Monthly Casing Annulus and Injection Pressures**

Monthly maximum, minimum, and average injection pressures are provided in Attachment 11. There were no exceedances of the injection pressure limit during Q3 2023.

■ **Part II.G.2 – Analytical Results for Monthly Treated Water Samples**

Monthly analytical results for samples of the treated water are provided in Attachment 12. On September 7, 2023, a new reverse osmosis system was brought online. The new water treatment system is identical to the pre-existing one. The two operate in parallel, expanding the facility's water treatment capacity.

■ **Appendix H – Migratory Bird Landings and Mortality**

Daily inspection of the Process Solution Impoundment was conducted to record any migratory bird landings and/or identify any migratory bird mortality. As summarized in Attachment 13, no bird landings were observed during Q3 2023.

Please call (520) 374-3984 with any questions regarding the content of this document.

Sincerely,
Florence Copper LLC



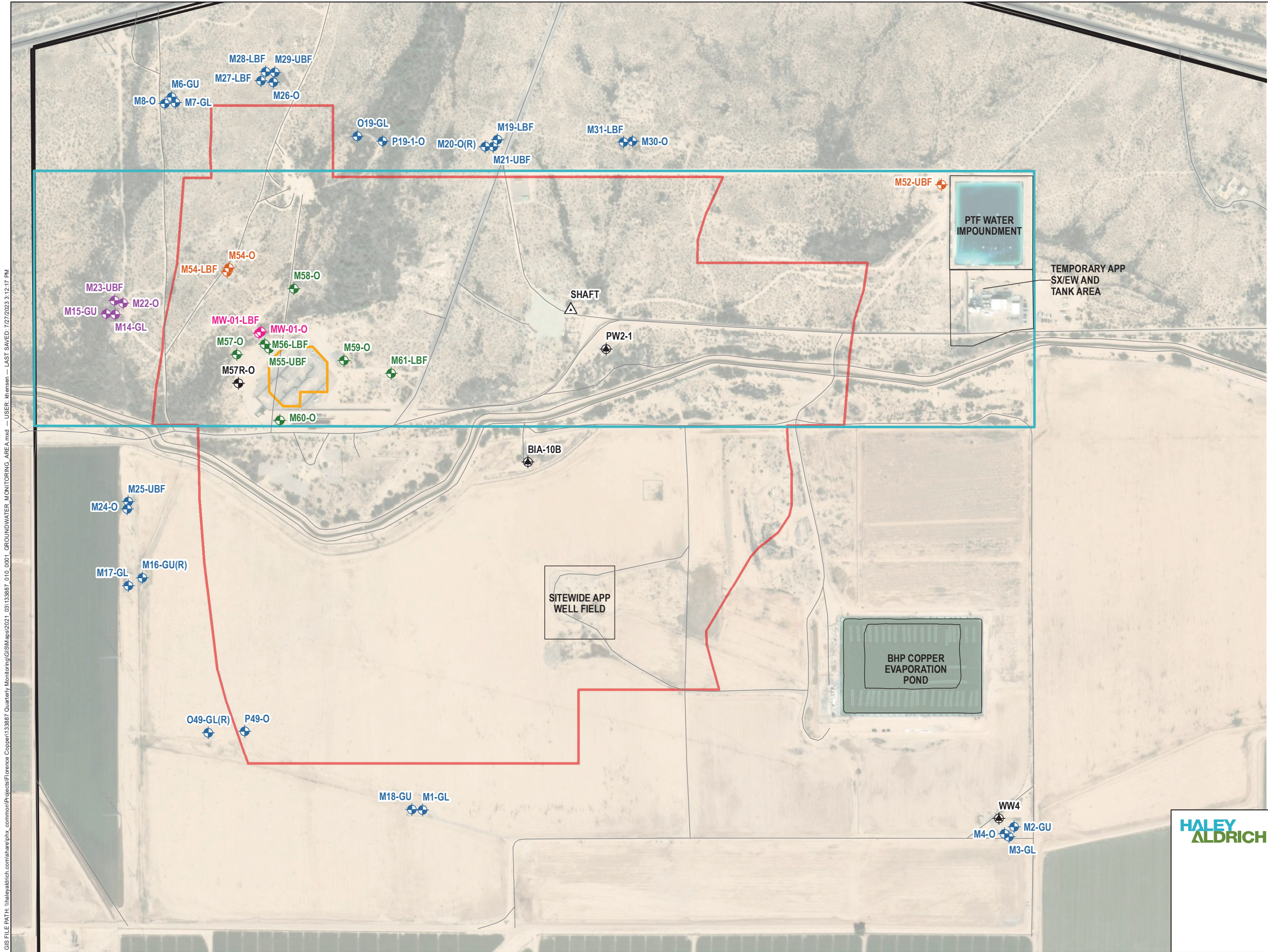
John Mays
General Manager

Enclosures:

- Figure 1 – Groundwater Monitoring Area
- Figure 2 – PTF Wellfield
- Attachment 1 – Map of Operational Status and Groundwater Contours
- Attachment 2 – Table and Graphs of Injected and Recovered Volumes
- Attachment 3 – Table and Graphs of the Well Head Measurements in the Production Test Facility
- Attachment 4 – Table and Graphs of Fluid Electrical Conductivity Measurements
- Attachment 5 – Table and Graphs of Bulk Electrical Conductivity Measurements
- Attachment 6 – Table and Graphs of Monitor Well Water Levels and Analytical Results
- Attachment 7 – Results of Monthly Lixiviant Organic Analysis
- Attachment 8 – Results of Mechanical Integrity Testing
- Attachment 9 – Results of Annular Conductivity Device Monitoring
- Attachment 10 – Summary of Plugging and Abandonment
- Attachment 11 – Table of Monthly Casing Annulus and Injection Pressures
- Attachment 12 – Results for Monthly Treated Water Samples
- Attachment 13 – Migratory Bird Landings

FIGURES

GIS FILE PATH: \\haleyaldrich.com\share\phx_common\Projects\Florence Copper\133887 Quarterly Monitoring\GIS\Maps\2021_03\133887_010_001 GROUNDWATER MONITORING AREA.mxd — USER: khensen — LAST SAVED: 7/27/2023 3:12:17 PM

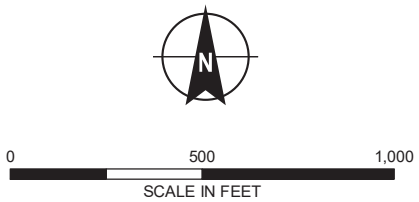


LEGEND

- PRODUCTION WELL
- REPLACEMENT SUPPLEMENTAL MONITORING WELL
- APP AND UIC POC WELL
- APP MONITORING WELL
- UIC OPERATIONAL MONITORING WELL
- UIC POC WELL
- UIC SUPPLEMENTAL MONITORING WELL
- SHAFT
- IN SITU COPPER RECOVERY (ISCR) WELLFIELD
- PRODUCTION TEST FACILITY (PTF) WELLFIELD
- STATE MINERAL LEASE BOUNDARY
- FLORENCE COPPER PROPERTY BOUNDARY

NOTES

1. APP PERMIT NO. 101704, LTF 88973
2. UIC PERMIT NO. R9UIC-AZ3-FY11-1
3. M16-GU AND M20-O HAVE BEEN REPLACED. WELLS ARE INACTIVE AND NO MONITORING IS PERFORMED. WELLS HAVE NOT YET BEEN ABANDONED.
4. AERIAL IMAGERY SOURCE: ESRI



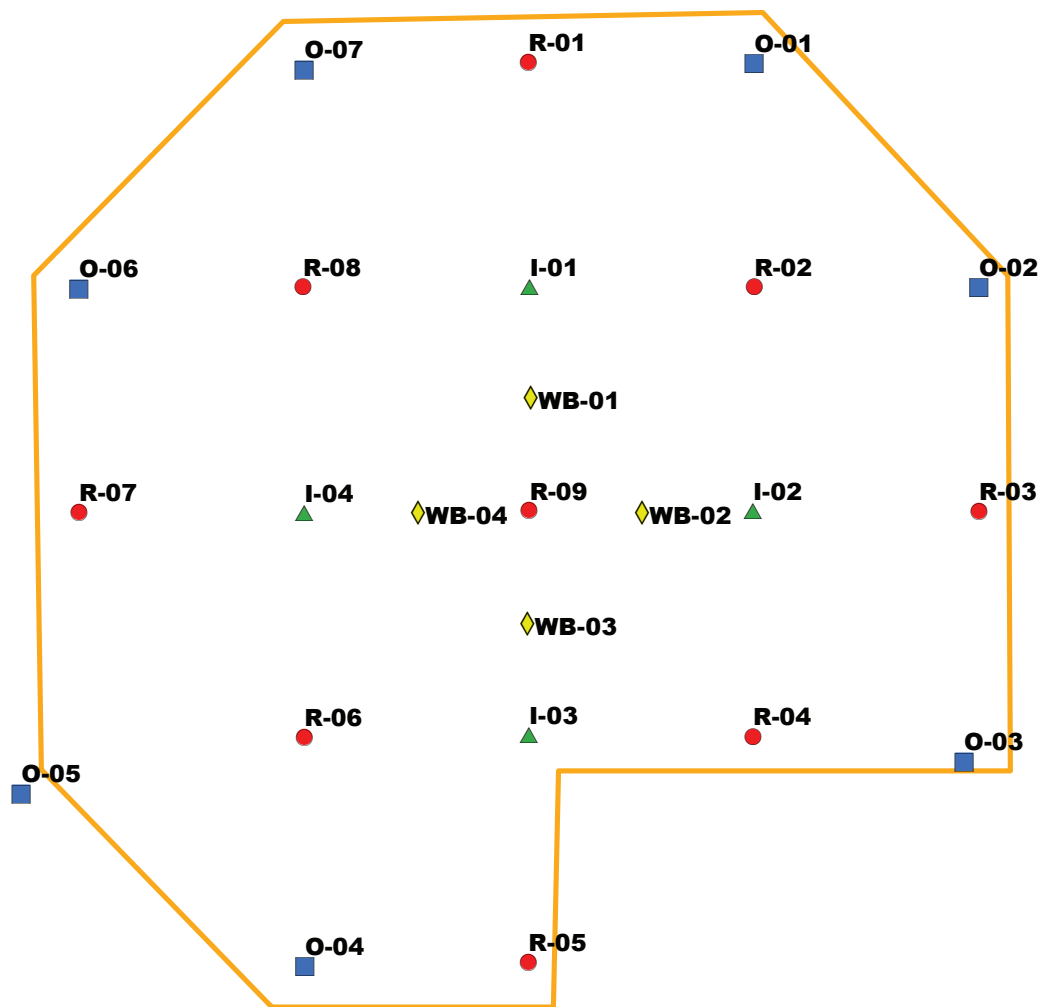
HALEY
ALDRICH

FLORENCE COPPER LLC
FLORENCE, ARIZONA 85132

GROUNDWATER MONITORING AREA

OCTOBER 2023

FIGURE 1

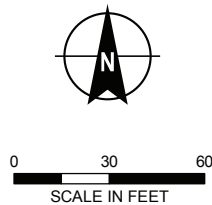


LEGEND

-  INJECTION WELL
-  OBSERVATION WELL
-  RECOVERY WELL
-  WESTBAY WELL
-  PTF WELLFIELD

NOTES

1. ALL LOCATIONS AND DIMENSIONS APPROXIMATE



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FLORENCE ARIZONA

PTF WELLFIELD

 **FLORENCE
COPPER**

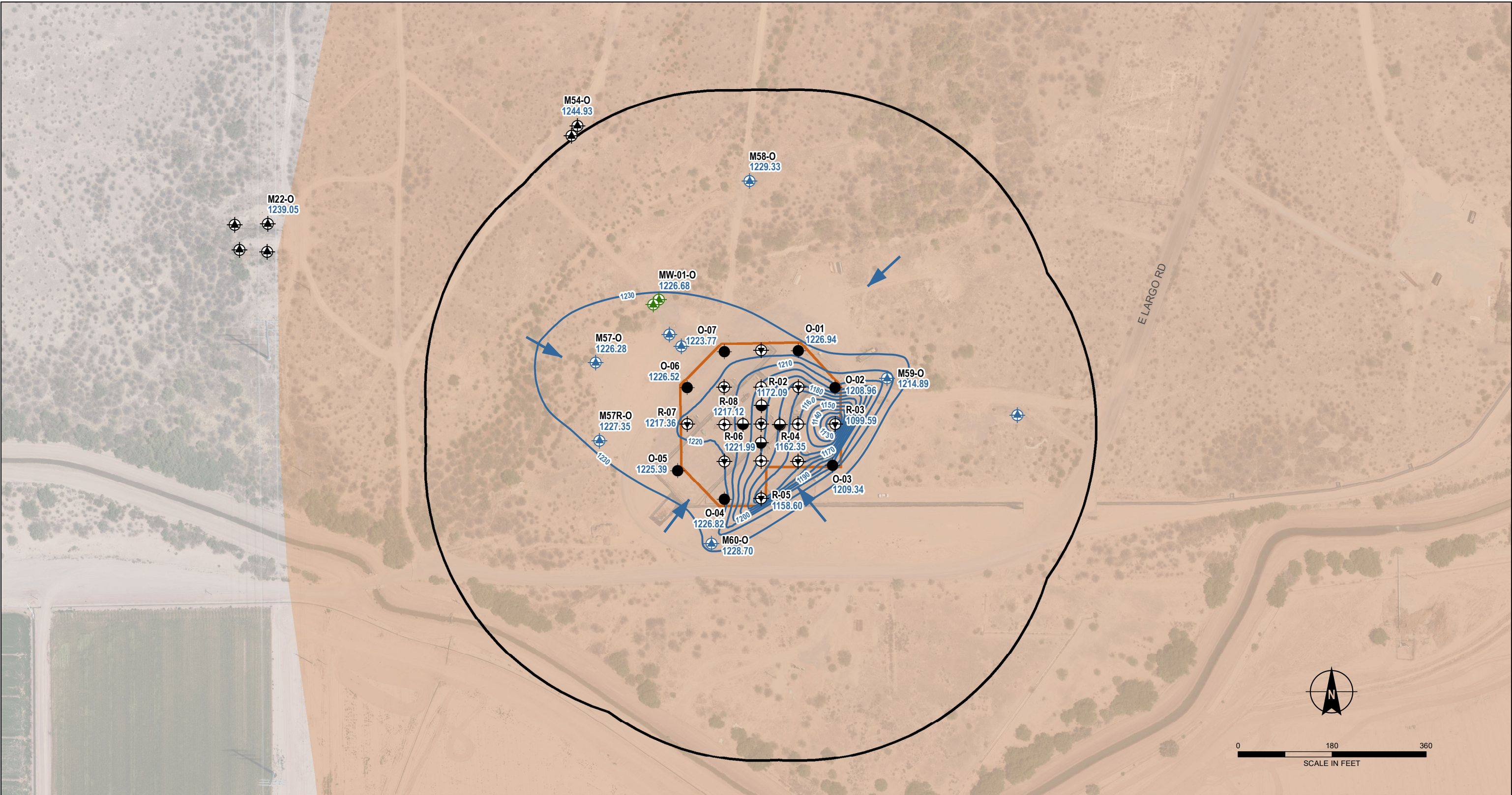
OCTOBER 2023

FIGURE 2

ATTACHMENT 1

Map of Operational Status and Groundwater Contours

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LEGEND

- | | | | |
|--|------------------|--|--------------------------------|
| | OBSERVATION WELL | | POINT OF COMPLIANCE (POC) WELL |
| | INJECTION WELL | | SUPPLEMENTAL MONITORING WELL |
| | RECOVERY WELL | | OPERATIONAL MONITORING WELL |
| | WESTBAY WELL | | GROUNDWATER FLOW DIRECTION |

- | | |
|--|--|
| | GROUNDWATER ELEVATION CONTOUR, 10-FT CONTOUR |
| | POLLUTANT MANAGEMENT AREA |
| | PRODUCTION TEST FACILITY (PTF) WELL FIELD |
| | POLLUTANT MANAGEMENT AREA (PMA) |

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. WELL R-01 WAS NOT OPERATING DURING JULY 2023.
3. WELL R-09 WAS OPERATING AS AN INJECTION WELL ON 6 JULY 2023.
4. WATER LEVELS WERE COLLECTED ON 6 JULY 2023.
5. WELLS WITH IDs AND **GROUNDWATER ELEVATIONS** WERE USED IN CONTOURING; GROUNDWATER ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).
6. AERIAL IMAGERY SOURCE: UNMANNED AERIAL VEHICLE, FLORENCE COPPER, 7 FEBRUARY 2022

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PRODUCTION TEST FACILITY
FLORENCE COPPER LLC
FLORENCE, ARIZONA

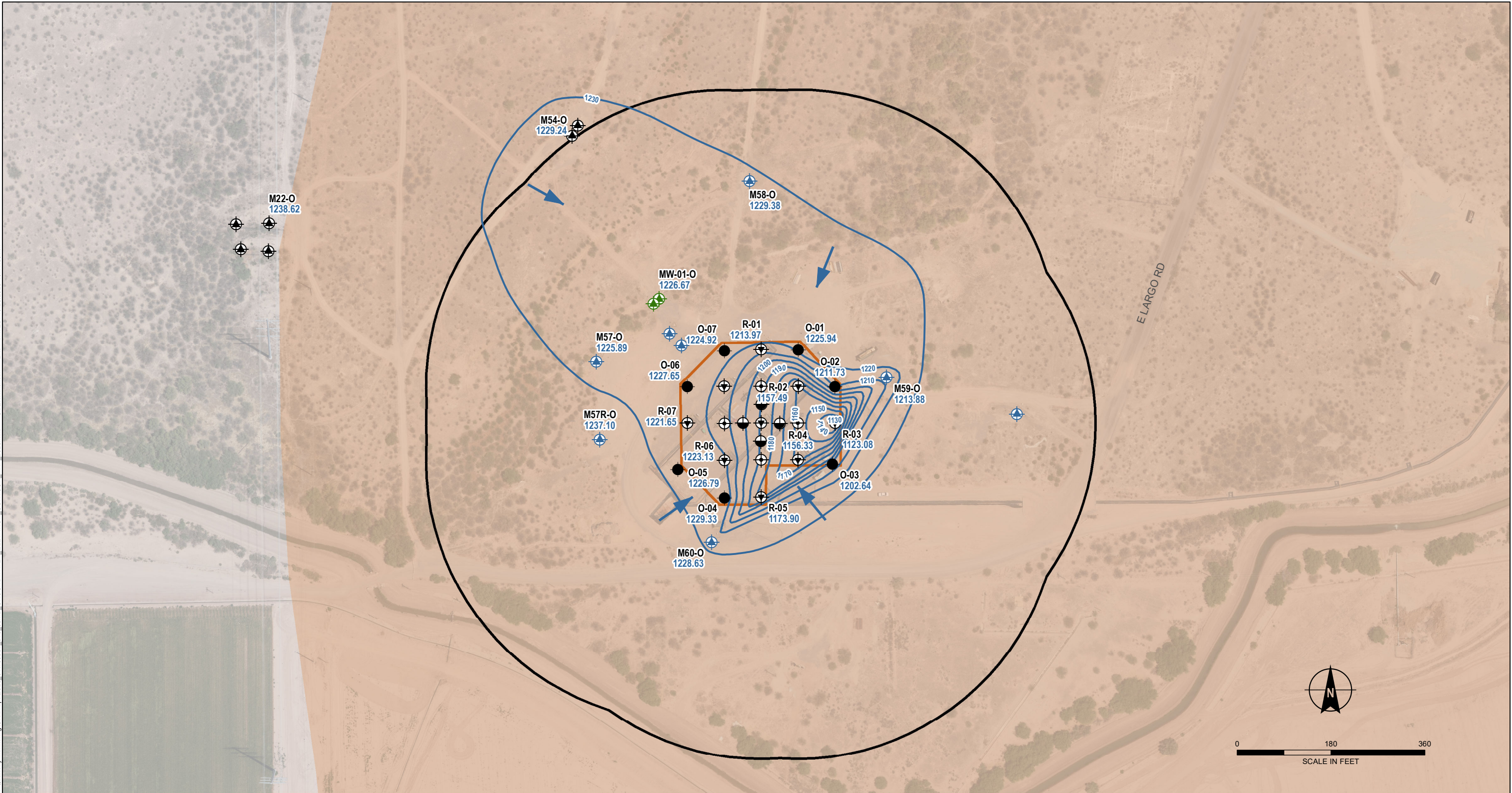
OXIDE GROUNDWATER
ELEVATION CONTOURS
JULY 2023

FLORENCE
COPPER

OCTOBER 2023

FIGURE 1

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LEGEND

- | | | | |
|--|------------------|--|--------------------------------|
| | OBSERVATION WELL | | POINT OF COMPLIANCE (POC) WELL |
| | INJECTION WELL | | SUPPLEMENTAL MONITORING WELL |
| | RECOVERY WELL | | OPERATIONAL MONITORING WELL |
| | WESTBAY WELL | | GROUNDWATER FLOW DIRECTION |

- | | |
|--|--|
| | GROUNDWATER ELEVATION CONTOUR, 10-FT CONTOUR |
| | POLLUTANT MANAGEMENT AREA |
| | PRODUCTION TEST FACILITY (PTF) WELL FIELD |
| | POLLUTANT MANAGEMENT AREA (PMA) |

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. WELL R-08 WAS DOWN FOR RECONDITIONING ON 14 SEPTEMBER 2023.
3. WELL R-09 WAS OPERATING AS AN INJECTION WELL ONE 11 AUGUST 2023.
4. WATER LEVELS WERE COLLECTED ON 11 AUGUST 2023.
5. WELLS WITH IDs AND **GROUNDWATER ELEVATIONS** WERE USED IN CONTOURING; GROUNDWATER ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).
6. AERIAL IMAGERY SOURCE: UNMANNED AERIAL VEHICLE, FLORENCE COPPER, 7 FEBRUARY 2022

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PRODUCTION TEST FACILITY
FLORENCE COPPER LLC
FLORENCE, ARIZONA

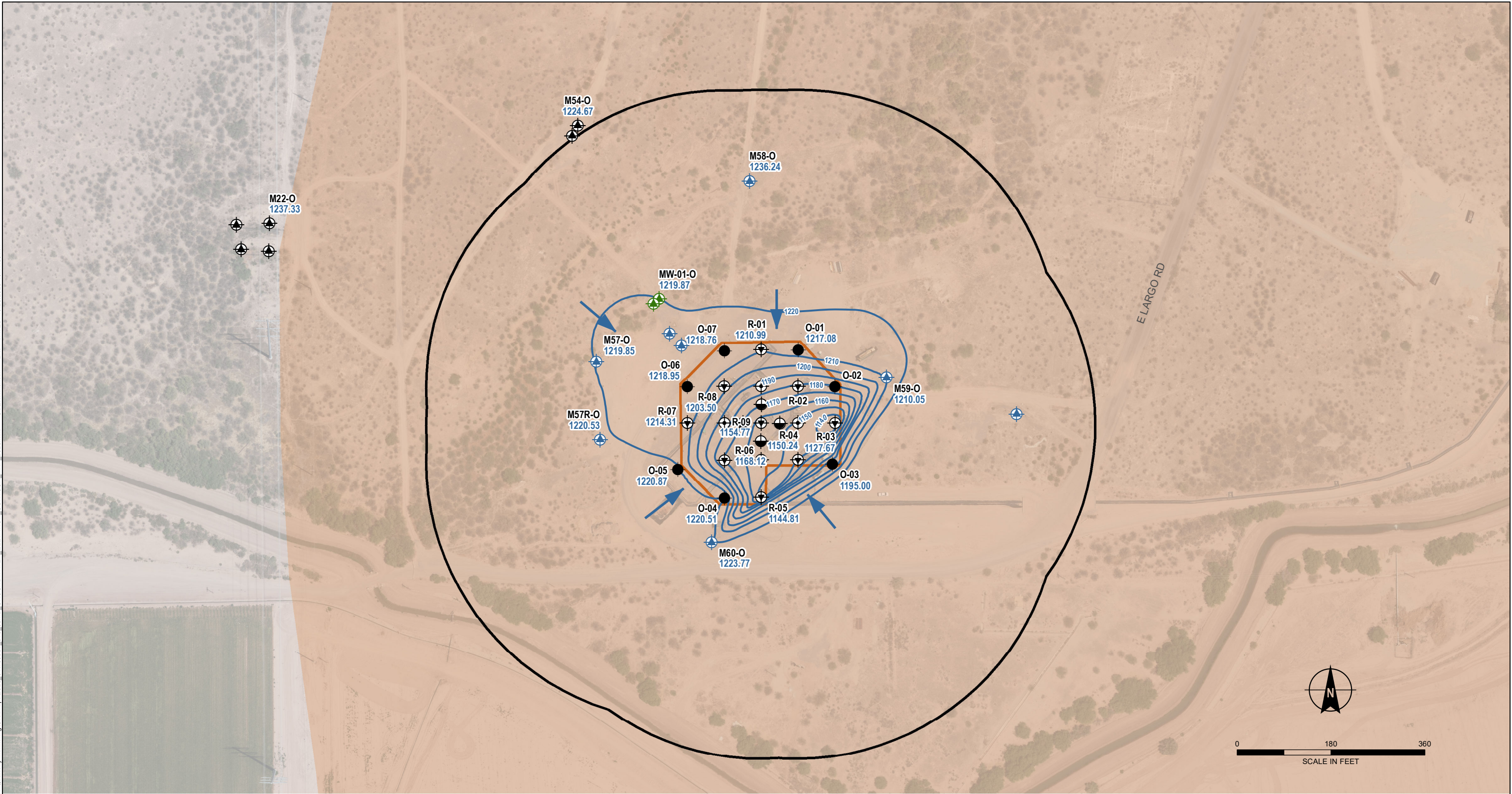
OXIDE GROUNDWATER
ELEVATION CONTOURS
AUGUST 2023

FLORENCE
COPPER

OCTOBER 2023

FIGURE 2

GIS FILE PATH: C:\Projects\Florence Copper\133887 Quarterly Monitoring\GIS\Maps\2023 04\133887_010_00MB GROUNDWATER ELEVATION CONTOUR MAP 2023.mxd — USER: khensen — LAST SAVED: 10/20/2023 10:41:53 AM



LEGEND

- | | | | | | |
|---|------------------|---|--------------------------------|--|--|
|  | OBSERVATION WELL |  | POINT OF COMPLIANCE (POC) WELL |  | GROUNDWATER ELEVATION CONTOUR, 10-FT CONTOUR |
|  | INJECTION WELL |  | SUPPLEMENTAL MONITORING WELL |  | POLLUTANT MANAGEMENT AREA |
|  | RECOVERY WELL |  | OPERATIONAL MONITORING WELL |  | PRODUCTION TEST FACILITY (PTF) WELL FIELD |
|  | WESTBAY WELL |  | GROUNDWATER FLOW DIRECTION |  | POLLUTANT MANAGEMENT AREA (PMA) |

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. WELLS R-02 AND O-02 WERE DOWN FOR RECONDITIONING ON 14 SEPTEMBER 2023.
3. WATER LEVELS WERE COLLECTED ON 14 SEPTEMBER 2023.
4. WELLS WITH IDs AND **GROUNDWATER ELEVATIONS** WERE USED IN CONTOURING; GROUNDWATER ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).
5. AERIAL IMAGERY SOURCE: UNMANNED AERIAL VEHICLE, FLORENCE COPPER, 7 FEBRUARY 2022

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PRODUCTION TEST FACILITY
FLORENCE COPPER LLC
FLORENCE, ARIZONA

FLORENCE
COPPER

OXIDE GROUNDWATER
ELEVATION CONTOURS
SEPTEMBER 2023

OCTOBER 2023

FIGURE 3

ATTACHMENT 2

Table and Graphs of Injected and Recovered Volumes

Q3 2023 DAILY INJECTION AND RECOVERY VOLUMES WITH PERCENT RECOVERY

PAGE 1 OF 3

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FLORENCE, ARIZONA

Table 1. July 2023 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	Min % Recovery
7/1/2023	129,200	238,700	1.85	185
7/2/2023	124,100	236,900	1.91	191
7/3/2023	129,800	253,700	1.95	195
7/4/2023	117,000	263,900	2.26	226
7/5/2023	114,300	260,900	2.28	228
7/6/2023	127,000	262,900	2.07	207
7/7/2023	120,200	262,400	2.18	218
7/8/2023	117,900	262,200	2.22	222
7/9/2023	123,200	261,700	2.12	212
7/10/2023	110,700	263,800	2.38	238
7/11/2023	131,000	261,200	1.99	199
7/12/2023	131,200	272,500	2.08	208
7/13/2023	105,500	255,600	2.42	242
7/14/2023	120,200	228,100	1.90	190
7/15/2023	120,800	226,400	1.87	187
7/16/2023	121,600	227,800	1.87	187
7/17/2023	114,400	242,800	2.12	212
7/18/2023	102,500	272,700	2.66	266
7/19/2023	121,200	273,700	2.26	226
7/20/2023	123,400	271,300	2.20	220
7/21/2023	104,400	265,800	2.55	255
7/22/2023	120,200	269,600	2.24	224
7/23/2023	131,200	268,200	2.04	204
7/24/2023	116,500	266,400	2.29	229
7/25/2023	120,000	264,900	2.21	221
7/26/2023	79,700	250,500	3.14	314
7/27/2023	125,700	268,500	2.14	214
7/28/2023	131,000	271,000	2.07	207
7/29/2023	130,600	267,300	2.05	205
7/30/2023	129,200	268,600	2.08	208
7/31/2023	118,500	268,300	2.26	226
JUL Averages	119,748	258,977	2.18	218

July Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	83	180

Notes:

% = percent

GPM = gallons per minute

Q3 2023 DAILY INJECTION AND RECOVERY VOLUMES WITH PERCENT RECOVERY

FLORENCE COPPER LLC

FLORENCE, ARIZONA

PAGE 2 OF 3

Table 2. August 2023 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	Min % Recovery
8/1/2023	115,700	253,100	2.19	219
8/2/2023	123,200	253,600	2.06	206
8/3/2023	123,200	253,700	2.06	206
8/4/2023	124,200	258,000	2.08	208
8/5/2023	130,000	254,200	1.96	196
8/6/2023	131,700	257,300	1.95	195
8/7/2023	125,800	252,400	2.01	201
8/8/2023	61,800	146,600	2.37	237
8/9/2023	27,300	136,400	5.00	500
8/10/2023	99,500	236,000	2.37	237
8/11/2023	120,200	259,300	2.16	216
8/12/2023	131,300	257,400	1.96	196
8/13/2023	130,500	265,900	2.04	204
8/14/2023	108,900	270,000	2.48	248
8/15/2023	113,000	266,500	2.36	236
8/16/2023	114,000	262,400	2.30	230
8/17/2023	129,400	239,100	1.85	185
8/18/2023	131,300	241,500	1.84	184
8/19/2023	130,900	238,000	1.82	182
8/20/2023	129,100	238,100	1.84	184
8/21/2023	123,200	231,400	1.88	188
8/22/2023	118,700	234,100	1.97	197
8/23/2023	107,600	227,500	2.11	211
8/24/2023	130,400	232,300	1.78	178
8/25/2023	126,700	230,400	1.82	182
8/26/2023	132,200	233,200	1.76	176
8/27/2023	126,000	233,000	1.85	185
8/28/2023	128,200	230,200	1.80	180
8/29/2023	115,800	220,400	1.90	190
8/30/2023	123,200	232,900	1.89	189
8/31/2023	56,400	258,200	4.58	458
AUG Averages	115,787	238,810	2.19	219

AUG Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	80	166

Notes:

% = percent

GPM = gallons per minute

Q3 2023 DAILY INJECTION AND RECOVERY VOLUMES WITH PERCENT RECOVERY

PAGE 3 OF 3

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FLORENCE, ARIZONA

Table 3. September 2023 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	Min % Recovery
9/1/2023	114,700	306,900	2.68	268
9/2/2023	127,800	299,200	2.34	234
9/3/2023	126,400	254,900	2.02	202
9/4/2023	127,500	262,000	2.05	205
9/5/2023	99,900	257,100	2.57	257
9/6/2023	124,500	259,100	2.08	208
9/7/2023	127,100	259,000	2.04	204
9/8/2023	122,700	272,700	2.22	222
9/9/2023	132,400	293,100	2.21	221
9/10/2023	156,000	325,700	2.09	209
9/11/2023	184,000	362,800	1.97	197
9/12/2023	212,000	414,200	1.95	195
9/13/2023	207,400	387,300	1.87	187
9/14/2023	158,500	302,800	1.91	191
9/15/2023	173,100	344,900	1.99	199
9/16/2023	175,700	350,600	2.00	200
9/17/2023	223,900	400,000	1.79	179
9/18/2023	215,600	427,700	1.98	198
9/19/2023	168,300	319,000	1.90	190
9/20/2023	136,900	264,700	1.93	193
9/21/2023	141,800	273,400	1.93	193
9/22/2023	134,300	278,600	2.07	207
9/23/2023	186,000	340,800	1.83	183
9/24/2023	217,800	394,000	1.81	181
9/25/2023	201,700	362,900	1.80	180
9/26/2023	154,400	267,800	1.73	173
9/27/2023	157,300	254,600	1.62	162
9/28/2023	123,900	279,600	2.26	226
9/29/2023	146,900	274,300	1.87	187
9/30/2023	197,000	360,400	1.83	183
SEP Averages	159,183	315,003	2.01	201

SEP Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	111	219

Notes:

% = percent

GPM = gallons per minute

Figure 1. Injection vs. Recovery Volumes - July 2023

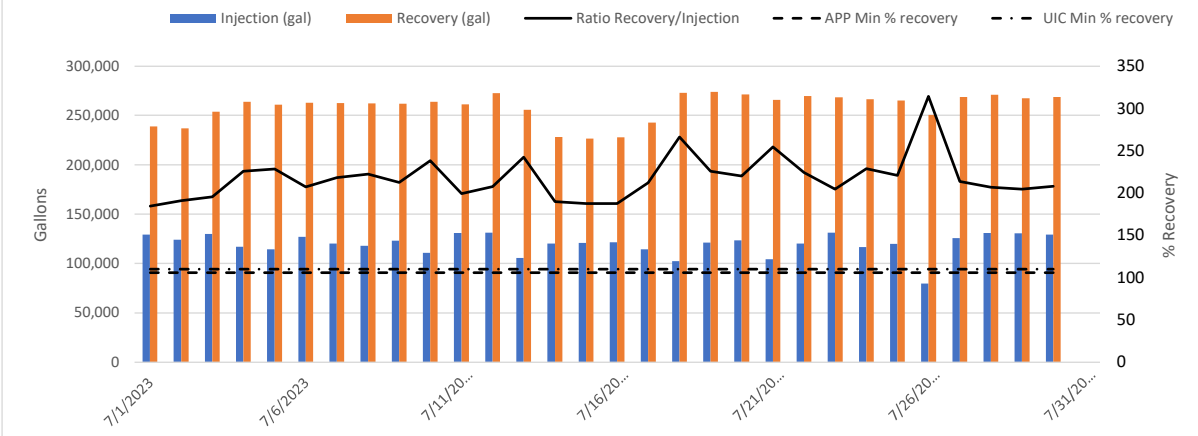


Figure 2. Injection vs. Recovery Volumes - August 2023

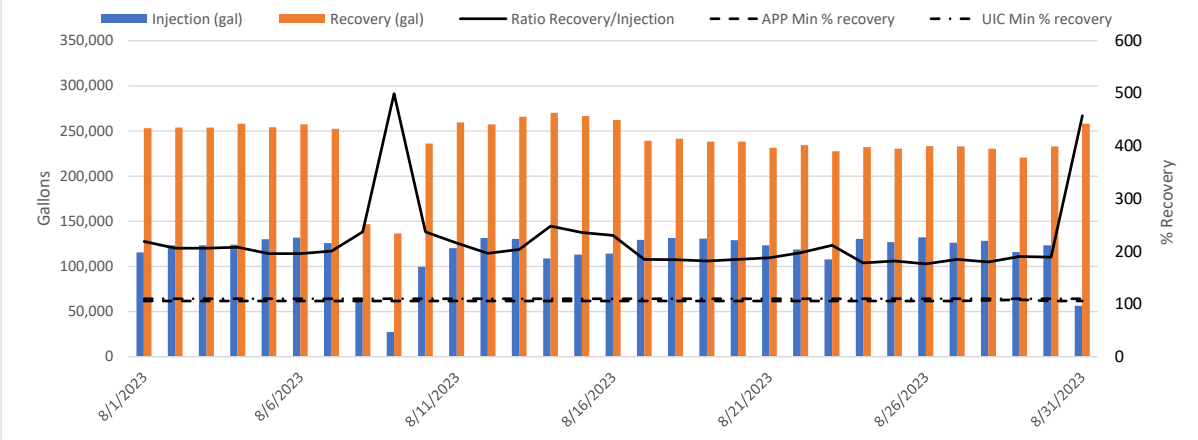
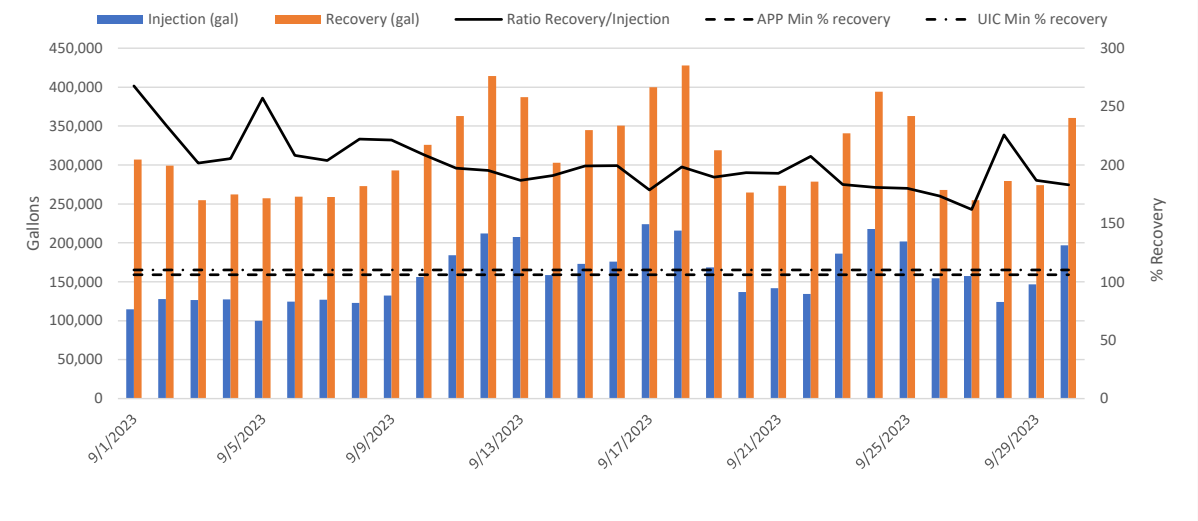


Figure 3. Injection vs. Recovery Volumes - September 2023



ATTACHMENT 3

Table and Graphs of the Well Head Measurements in the Production Test Facility

Q3 2023 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS
OBSERVATION AND RECOVERY WELLS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Table 1. July 2023 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
7/1/2023	1221.74	1231.55	1228.02	1185.68	1231.55	1214.91	1117.18	1214.91	1214.37	1177.24	1214.37	1179.41	1231.14	1227.15	1231.14	1229.61	1221.61	1229.61	1230.81	1225.93	1230.81	1228.02	1291.39
7/2/2023	1221.29	1231.40	1228.00	1185.55	1231.40	1215.04	1117.11	1215.04	1215.28	1177.54	1215.28	1180.08	1231.39	1227.26	1231.39	1229.80	1221.78	1229.80	1230.91	1226.04	1230.91	1228.00	1288.02
7/3/2023	1220.01	1229.80	1226.86	1183.16	1229.80	1213.25	1114.31	1213.25	1214.66	1175.37	1214.66	1178.90	1230.63	1226.20	1230.63	1228.97	1220.85	1228.97	1229.92	1225.00	1229.92	1226.86	1284.93
7/4/2023	1216.71	1226.03	1223.74	1178.24	1226.03	1208.90	1109.22	1208.90	1211.20	1170.62	1211.20	1174.75	1227.96	1222.87	1227.96	1226.23	1217.90	1226.23	1226.93	1221.87	1226.93	1223.74	1277.57
7/5/2023	NA	1226.26	1223.35	1171.11	1226.26	1208.24	1099.03	1208.24	1208.55	1161.53	1208.55	1161.92	1226.53	1221.38	1226.53	1225.05	1216.92	1225.05	1226.04	1217.70	1226.04	1223.35	1275.45
7/6/2023	NA	1226.94	1223.77	1172.09	1226.94	1208.96	1099.59	1208.96	1209.34	1162.35	1209.34	1158.60	1226.82	1221.99	1226.82	1225.39	1217.36	1225.39	1226.52	1217.12	1226.52	1223.77	1279.73
7/7/2023	NA	1224.95	1221.93	1170.05	1224.95	1208.82	1097.87	1208.82	1207.71	1160.51	1207.71	1156.87	1225.34	1220.22	1225.34	1223.82	1215.68	1223.82	1224.78	1214.87	1224.78	1221.93	1269.66
7/8/2023	NA	1225.49	1222.37	1170.50	1225.49	1209.68	1098.11	1209.68	1207.84	1160.70	1207.84	1156.84	1225.30	1220.26	1225.30	1223.90	1215.83	1223.90	1225.04	1215.37	1225.04	1222.37	1267.93
7/9/2023	NA	1226.25	1222.98	1171.36	1226.25	1210.46	1098.80	1210.46	1208.69	1161.57	1208.69	1157.62	1225.80	1220.97	1225.80	1224.39	1216.39	1224.39	1225.59	1216.47	1225.59	1222.98	1273.23
7/10/2023	NA	1222.26	1219.60	1167.02	1222.26	1206.56	1094.52	1206.56	1204.96	1157.41	1204.96	1154.20	1223.14	1217.69	1223.14	1221.61	1213.42	1221.61	1222.47	1213.20	1222.47	1219.60	1266.97
7/11/2023	NA	1225.47	1222.51	1170.32	1225.47	1209.16	1097.34	1209.16	1208.11	1160.65	1208.11	1156.95	1225.63	1220.79	1225.63	1224.19	1216.34	1224.19	1225.32	1216.76	1225.32	1222.51	1277.67
7/12/2023	NA	1225.15	1221.92	1164.63	1225.15	1202.65	1108.73	1202.65	1209.98	1162.36	1209.98	1158.07	1224.94	1197.26	1224.94	1223.44	1215.28	1223.44	1224.85	1217.05	1224.85	1221.92	1278.60
7/13/2023	1215.11	1222.07	1220.45	1150.82	1222.07	1205.47	1102.97	1205.47	1208.92	1163.79	1208.92	1162.02	1224.72	1216.71	1224.72	1223.02	1214.59	1223.02	1223.89	1216.94	1223.89	1220.45	1270.69
7/14/2023	1219.85	1228.19	1224.72	1165.83	1228.19	1214.52	1124.73	1214.52	1215.98	1171.57	1215.98	1176.40	1228.89	1224.65	1228.89	1227.18	1219.22	1227.18	1228.23	1223.16	1228.23	1224.72	1274.61
7/15/2023	1221.61	1231.06	1227.35	1171.98	1231.06	1217.82	1132.81	1217.82	1217.92	1175.34	1217.92	1181.20	1231.38	1227.30	1231.38	1229.70	1221.81	1229.70	1230.81	1225.31	1230.81	1227.35	1276.92
7/16/2023	1222.30	1231.74	1228.05	1172.06	1231.74	1218.52	1132.29	1218.52	1218.69	1175.74	1218.69	1181.66	1232.23	1228.04	1232.23	1230.47	1222.55	1230.47	1231.53	1226.44	1231.53	1228.05	1275.05
7/17/2023	1220.19	1228.99	1226.62	1158.58	1228.99	1214.56	1108.79	1214.56	1213.01	1159.28	1213.01	1169.57	1231.12	1226.57	1231.12	1229.95	1224.58	1229.95	1231.00	1224.94	1231.00	1226.62	1270.99
7/18/2023	1216.16	1223.62	1222.14	1149.27	1223.62	1208.79	1102.95	1208.79	1201.09	1147.76	1201.09	1162.06	1226.98	1221.55	1226.98	1225.77	NA	1225.77	1226.55	1220.10	1226.55	1222.14	1260.42
7/19/2023	1216.16	1224.38	1223.01	1151.75	1224.38	1209.45	1104.15	1209.45	1201.95	1151.87	1201.95	1166.26	1227.76	1222.53	1227.76	1226.36	NA	1226.36	1227.09	1221.02	1227.09	1223.01	1264.22
7/20/2023	1216.55	1225.88	1224.12	1153.51	1225.88	1211.20	1110.40	1211.20	1203.96	1160.92	1203.96	1172.64	1229.28	1224.24	1229.28	1227.85	NA	1227.85	1228.56	1222.24	1228.56	1224.12	1270.19
7/21/2023	1214.39	1224.14	1223.12	1151.95	1224.14	1204.21	1112.61	1204.21	1202.99	1165.08	1202.99	1174.84	1228.72	1223.46	1228.72	1227.26	NA	1227.26	1227.72	1221.26	1227.72	1223.12	1270.93
7/22/2023	1215.61	1225.39	1224.26	1153.23	1225.39	1202.82	1113.16	1202.82	1204.51	1166.76	1204.51	1176.41	1230.09	1225.05	1230.09	1228.59	NA	1228.59	1229.04	1222.11	1229.04	1224.26	1272.56
7/23/2023	1218.13	1227.98	1226.54	1156.10	1227.98	1205.38	1115.62	1205.38	1207.82	1169.80	1207.82	1178.99	1232.15	1227.52	1232.15	1230.72	NA	1230.72	1231.30	1224.55	1231.30	1226.54	1282.24
7/24/2023	1215.11	1224.97	1223.83	1151.84	1224.97	1202.84	1111.29	1202.84	1206.06	1165.58	1206.06	1176.39	1229.76	1224.63	1229.76	1228.19	NA	1228.19	1228.64	1221.41	1228.64	1223.83	1267.62
7/25/2023	1214.80	1224.78	1222.85	1151.84	1224.78	1203.29	1124.58	1203.29	1207.34	1171.68	1207.34	1176.05	1228.05	1223.39	1228.05	1226.37	1222.11	1226.37	1227.23	1220.97	1227.23	1222.85	1270.52
7/26/2023	1210.45	1219.89	1218.44	1163.95	1219.89	1201.73	1128.16	1201.73	1205.01	1169.91	1205.01	1171.64	1223.65	1206.55	1223.65	1221.76	1217.86	1221.76	1222.45	1216.03	1222.45	1218.44	1247.82
7/27/2023	1210.82	1220.99	1219.21	1164.63	1220.99	1199.27	1126.57	1199.27	1201.23	1169.54	1201.23	1171.52	1223.60	1218.80	1223.60	1221.72	1217.97	1221.72	1222.62	1217.09	1222.62	1219.21	1270.49
7/28/2023	1212.81	1222.98	1221.44	1166.92	1222.98	1201.07	1126.72	1201.07	1203.40	1170.78	1203.40	1172.13	1237.26	1220.75	1237.26	1223.51	1219.75	1223.51	1224.53	1219.54	1224.53	1221.44	1274.97
7/29/2023	1213.28	1223.64	1222.10	1167.80	1223.64	1202.00	1129.01	1202.00	1205.05	1172.93	1205.05	1174.39	1230.28	1221.49	1230.28	1224.15	1220.52	1224.15	1225.18	1220.31	1225.18	1222.10	1278.69
7/30/2023	1213.72	1224.10	1222.40	1168.35	1224.10	1202.70	1129.51	1202.70	1206.50	1173.76	1206.50	1175.01	1226.96	1221.77	1226.96	1224.38	1220.16	1224.38	1225.40	1219.97	1225.40	1222.40	1275.70
7/31/2023	1213.17	1224.53	1222.01	1167.22	1224.53	1204.72	1128.61	1204.72	1209.41	1162.16	1209.41	1159.40	1226.23	1220.77	1226.23	1223.50	1217.85	1223.50	1224.62	1219.73	1224.62	1222.01	1270.99

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-01 redevelopment 7/5/2023 - 7/12/2023

R-07 redevelopment 7/18/2023 - 7/24/2023

Q3 2023 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS
OBSERVATION AND RECOVERY WELLS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Table 2. August 2023 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
8/1/2023	1213.76	1226.38	1223.27	1165.27	1226.38	1214.33	NA	1214.33	1210.15	1157.69	1210.15	1161.13	1227.22	1221.88	1227.22	1224.57	1219.51	1224.57	1225.81	1220.68	1225.81	1223.27	1271.05
8/2/2023	1213.43	1227.93	1224.65	1169.64	1227.93	1216.07	NA	1216.07	1211.52	1162.18	1211.52	1166.86	1228.97	1223.80	1228.97	1226.30	1221.77	1226.30	1227.50	1221.97	1227.50	1224.65	1276.50
8/3/2023	1215.40	1229.75	1226.30	1167.38	1229.75	1217.87	NA	1217.87	1214.23	1159.93	1214.23	1168.02	1230.57	1225.45	1230.57	1227.87	1223.32	1227.87	1229.08	1223.44	1229.08	1226.30	1278.93
8/4/2023	1216.87	1231.21	1227.33	1169.80	1231.21	1219.29	NA	1219.29	1216.48	1162.50	1216.48	1170.35	1231.40	1226.56	1231.40	1228.74	1224.37	1228.74	1230.08	1224.69	1230.08	1227.33	1279.37
8/5/2023	1217.87	1231.49	1227.70	1169.63	1231.49	1219.97	NA	1219.97	1217.90	1162.46	1217.90	1167.83	1231.52	1226.78	1231.52	1228.89	1224.32	1228.89	1230.31	1224.56	1230.31	1227.70	1281.08
8/6/2023	1217.11	1231.62	1227.73	1170.42	1231.62	1220.25	NA	1220.25	1219.26	1163.99	1219.26	1171.63	1231.80	1227.08	1231.80	1229.15	1224.79	1229.15	1230.53	1225.41	1230.53	1227.73	1278.48
8/7/2023	1214.53	1228.77	1225.42	1166.55	1228.77	1216.81	NA	1216.81	1212.42	1158.39	1212.42	1166.92	1229.99	1224.56	1229.99	1227.07	1222.50	1227.07	1228.27	1223.23	1228.27	1225.42	1275.50
8/8/2023	1221.10	1233.72	1229.56	1203.22	1233.72	1223.01	NA	1223.01	1224.07	1196.21	1224.07	1193.52	1234.13	1228.45	1234.13	1231.25	1226.65	1231.25	1231.92	1228.55	1231.92	1229.56	1272.60
8/9/2023	1221.17	1232.23	1228.93	1201.55	1232.23	1220.73	1172.28	1220.73	1218.66	1193.85	1218.66	1191.34	1232.77	1226.64	1232.77	1230.27	1225.84	1230.27	1231.21	NA	1231.21	1228.93	1263.16
8/10/2023	1216.48	1228.45	1226.97	1169.11	1228.45	1215.03	1138.46	1215.03	1208.14	1166.51	1208.14	1176.86	1231.09	1225.05	1231.09	1228.62	1223.57	1228.62	1228.95	NA	1228.95	1226.97	1264.78
8/11/2023	1213.97	1225.94	1224.92	1157.49	1225.94	1211.73	1123.08	1211.73	1202.64	1156.33	1202.64	1173.90	1229.33	1223.13	1229.33	1226.79	1221.65	1226.79	1227.65	NA	1227.65	1224.92	1268.08
8/12/2023	1216.51	1228.99	1227.41	1160.42	1228.99	1214.76	1125.82	1214.76	1207.54	1161.64	1207.54	1178.22	1231.67	1225.93	1231.67	1229.13	1224.10	1229.13	1230.11	NA	1230.11	1227.41	1279.02
8/13/2023	1216.39	1228.95	1227.34	1158.54	1228.95	1214.63	1125.09	1214.63	1208.00	1158.89	1208.00	1174.95	1231.57	1225.75	1231.57	1229.04	1224.02	1229.04	1230.01	NA	1230.01	1227.34	1276.62
8/14/2023	1214.11	1226.37	1225.36	1157.32	1226.37	1212.10	1121.75	1212.10	1203.95	1154.39	1203.95	1166.15	1229.59	1223.27	1229.59	1227.18	1222.10	1227.18	1228.04	NA	1228.04	1225.36	1269.44
8/15/2023	1212.68	1224.80	1223.75	1155.62	1224.80	1210.65	1120.06	1210.65	1203.25	1154.78	1203.25	1172.32	1228.60	1222.10	1228.60	1225.93	1220.71	1225.93	1226.57	NA	1226.57	1223.75	1263.61
8/16/2023	1214.46	1227.18	1225.35	1157.62	1227.18	1212.71	1122.24	1212.71	1206.13	1158.92	1206.13	1176.74	1230.28	1223.98	1230.28	1227.61	1222.43	1227.61	1228.29	NA	1228.29	1225.35	1266.71
8/17/2023	1218.05	1231.56	1228.93	1161.75	1231.56	1215.26	1127.04	1215.26	1209.11	1164.39	1209.11	1181.66	1233.74	1228.08	1233.74	1231.09	1225.72	1231.09	1231.92	NA	1231.92	1228.93	1282.17
8/18/2023	1218.71	1231.68	1228.88	1162.99	1231.68	1217.73	1128.39	1217.73	1218.68	1164.21	1218.68	1178.96	1233.70	1227.89	1233.70	1230.89	1225.32	1230.89	1231.67	NA	1231.67	1228.88	1284.43
8/19/2023	1220.34	1233.62	1230.84	1165.07	1233.62	1219.67	1130.16	1219.67	1218.75	1167.62	1218.75	1183.96	1235.43	1229.90	1235.43	1232.72	1227.56	1232.72	1233.71	NA	1233.71	1230.84	1288.97
8/20/2023	1220.58	1233.97	1231.04	1165.31	1233.97	1219.99	1130.27	1219.99	1219.04	1167.80	1219.04	1184.20	1235.68	1230.15	1235.68	1233.02	1227.86	1233.02	1234.00	NA	1234.00	1231.04	1289.08
8/21/2023	1219.32	1232.70	1229.43	1168.72	1232.70	1219.00	1137.26	1219.00	1220.38	1166.90	1220.38	1183.23	1234.73	1228.84	1234.73	1231.91	1226.55	1231.91	1232.57	NA	1232.57	1229.43	1283.24
8/22/2023	1219.20	1232.21	1229.11	1168.27	1232.21	1218.13	1135.80	1218.13	1218.47	1164.84	1218.47	1178.58	1234.23	1228.18	1234.23	1231.40	1225.80	1231.40	1232.10	NA	1232.10	1229.11	1283.52
8/23/2023	1219.41	1232.67	1229.65	1172.38	1232.67	1218.91	1142.33	1218.91	NA	1164.48	NA	1180.51	1234.52	1228.43	1234.52	1231.81	1226.45	1231.81	1232.61	NA	1232.61	1229.65	1276.94
8/24/2023	1220.05	1233.12	1229.96	1172.83	1233.12	1219.24	1140.92	1219.24	NA	1164.72	NA	1178.03	1234.67	1228.86	1234.67	1231.85	1226.14	1231.85	1232.71	NA	1232.71	1229.96	1288.42
8/25/2023	1220.81	1234.17	1231.20	1173.34	1234.17	1220.37	1140.69	1220.37	NA	1167.59	NA	1178.75	1235.74	1230.06	1235.74	1233.07	1227.83	1233.07	1234.03	NA	1234.03	1231.20	1289.92
8/26/2023	1222.89	1236.55	1233.16	1174.39	1236.55	1222.82	1141.48	1222.82	NA	1170.81	NA	1184.53	1237.58	1232.21	1237.58	1234.89	1229.36	1234.89	1235.97	NA	1235.97	1233.16	1292.46
8/27/2023	1222.68	1236.22	1233.08	1173.45	1236.22	1222.51	1140.44	1222.51	NA	1170.59	NA	1186.34	1237.48	1231.98	1237.48	1234.78	1229.15	1234.78	1235.80	NA	1235.80	1233.08	1289.90
8/28/2023	1222.38	1234.96	1231.42	1182.93	1234.96	1221.70	1155.48	1221.70	NA	1174.42	NA	1190.53	1236.26	1230.44	1236.26	1233.24	1227.19	1233.24	1233.80	1219.36	1233.80	1231.42	1286.27
8/29/2023	1224.22	1235.75	1231.78	1186.89	1235.75	1222.95	1160.67	1222.95	NA	1181.79	NA	1191.94	1236.47	1230.71	1236.47	1233.52	1227.89	1233.52	1234.10	1222.16	1234.10	1231.78	1286.21
8/30/2023	NA	1233.64	1229.26	1174.71	1233.64	1219.50	1143.28	1219.50	NA	1171.43	NA	1177.35	1232.80	1227.07	1232.80	1230.06	1223.63	1230.06	1230.96	1215.94	1230.96	1229.26	1288.31
8/31/2023	NA	1220.70	1217.33	1163.98	1220.70	1206.79	1136.27	1206.79	NA	1161.24	NA	1165.89	1223.22	1215.27	1223.22	1222.46	1215.22	1222.46	1219.67	1204.31	1219.67	1217.33	1194.35

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-03 redevelopment 8/1/2023 - 8/8/2023

R-08 redevelopment 8/9/2023 - 8/27/2023

O-03 redevelopment 8/23/2023 - 8/31/2023

R-01 redevelopment 8/30/2023 - 8/31/2023

Q3 2023 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS
OBSERVATION AND RECOVERY WELLS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

Table 3. September 2023 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
9/1/2023	NA	1221.68	1217.86	1160.69	1221.68	1208.06	1135.56	1208.06	1204.26	1158.59	1204.26	1148.18	1223.65	1215.30	1223.65	1220.42	1212.91	1220.42	1220.37	1200.72	1220.37	1217.86	1179.36
9/2/2023	NA	1224.12	1220.06	1166.67	1224.12	1210.50	1140.03	1210.50	1206.78	1160.05	1206.78	1149.02	1225.47	1217.60	1225.47	1222.43	1215.89	1222.43	1222.56	1202.80	1222.56	1220.06	1178.32
9/3/2023	NA	1230.50	1225.59	1185.29	1230.50	1217.43	1163.93	1217.43	1214.86	1180.42	1214.86	1170.37	1230.49	1223.39	1230.49	1227.52	1221.79	1227.52	1227.98	1212.98	1227.98	1225.59	1180.02
9/4/2023	NA	1231.15	1226.18	1185.53	1231.15	1218.14	1163.75	1218.14	1215.55	1181.00	1215.55	1173.21	1231.07	1223.88	1231.07	1228.03	1221.77	1228.03	1228.48	1213.43	1228.48	1226.18	1176.50
9/5/2023	NA	1226.52	1222.84	1182.09	1226.52	1214.22	1161.83	1214.22	1211.72	1178.09	1211.72	1167.95	1228.33	1223.56	1228.33	1225.14	1218.90	1225.14	1225.29	1210.26	1225.29	1222.84	1170.63
9/6/2023	NA	1228.84	1224.36	1184.98	1228.84	1216.25	1162.17	1216.25	1242.58	1181.00	1242.58	1170.94	1229.94	NA	1229.94	1226.68	1220.37	1226.68	1226.91	1210.28	1226.91	1224.36	1172.66
9/7/2023	NA	1229.17	1224.42	1183.76	1229.17	1216.47	1163.44	1216.47	1245.60	1179.70	1245.60	1170.33	1229.77	NA	1229.77	1226.53	1220.72	1226.53	1226.93	1210.29	1226.93	1224.42	1172.16
9/8/2023	NA	1227.45	1222.56	1184.10	1227.45	1214.80	1165.39	1214.80	1243.59	1179.77	1243.59	1171.99	1226.86	1180.37	1226.86	1223.76	1218.33	1223.76	1224.66	1209.14	1224.66	1222.56	1173.00
9/9/2023	NA	1225.06	1220.37	1179.98	1225.06	1212.34	1160.28	1212.34	1240.76	1171.89	1240.76	1166.23	1224.35	1174.74	1224.35	1221.23	1215.99	1221.23	1222.27	1205.38	1222.27	1220.37	1170.38
9/10/2023	NA	1224.80	1219.52	1155.00	1224.80	1211.31	1149.28	1211.31	1238.91	1159.02	1238.91	1153.24	1223.12	1159.17	1223.12	1220.04	1214.58	1220.04	1221.22	1200.36	1221.22	1219.52	1163.90
9/11/2023	NA	1225.93	1220.57	NA	1225.93	1212.44	1133.40	1212.44	1229.94	1155.67	1229.94	1153.33	1224.29	1171.86	1224.29	1221.40	1215.66	1221.40	1222.49	1200.18	1222.49	1220.57	1151.19
9/12/2023	1205.33	1220.73	1217.78	NA	1220.73	NA	1125.91	NA	1221.86	1145.63	1221.86	1148.69	1221.37	1166.65	1221.37	1218.21	1211.72	1218.21	1218.99	1198.87	1218.99	1217.78	1142.66
9/13/2023	1209.49	1222.22	1217.51	NA	1222.22	NA	1136.61	NA	1226.29	1155.32	1226.29	1155.95	1223.26	1169.71	1223.26	1219.91	1213.70	1219.91	1220.64	1203.52	1220.64	1217.51	1148.36
9/14/2023	1214.57	1226.10	NA	NA	1226.10	NA	1161.39	NA	1235.28	1175.67	1235.28	1173.51	1226.48	1178.43	1226.48	1223.04	1217.55	1223.04	1223.81	1208.64	1223.81	NA	1170.99
9/15/2023	1212.98	1224.58	1222.78	NA	1224.58	NA	1152.39	NA	1234.04	1167.66	1234.04	1164.74	1224.66	1172.69	1224.66	1221.25	1214.57	1221.25	1221.93	1204.29	1221.93	1222.78	1160.54
9/16/2023	1216.29	1226.51	1223.61	NA	1226.51	NA	1149.57	NA	1234.71	1165.39	1234.71	1168.87	1225.90	1174.71	1225.90	1222.38	1215.51	1222.38	1223.19	1204.94	1223.19	1223.61	1157.21
9/17/2023	1211.35	1226.01	1223.18	NA	1226.01	NA	1135.51	NA	1235.62	1159.22	1235.62	1165.64	1226.01	1167.18	1226.01	1222.35	1215.16	1222.35	1223.14	1204.53	1223.14	1223.18	1150.66
9/18/2023	1204.63	1219.30	1217.46	NA	1219.30	NA	1133.60	NA	1226.42	1149.87	1226.42	1144.32	1221.42	1147.01	1221.42	1216.95	1209.11	1216.95	1217.51	1197.48	1217.51	1217.46	1143.50
9/19/2023	1214.87	1227.08	1224.35	NA	1227.08	NA	1161.84	NA	1236.06	1174.80	1236.06	1174.38	1228.06	1176.16	1228.06	1223.45	1217.24	1223.45	1224.23	1209.87	1224.23	1224.35	1168.11
9/20/2023	1220.36	1230.98	1228.42	NA	1230.98	NA	1175.86	NA	1241.78	1187.47	1241.78	1192.74	1232.46	1195.26	1232.46	1227.90	1222.50	1227.90	1228.51	1213.49	1228.51	1228.42	1181.65
9/21/2023	1222.51	1233.32	1229.46	NA	1233.32	1220.33	1181.75	1220.33	1243.56	1186.61	1243.56	1191.50	1233.87	1195.66	1233.87	1228.59	1224.67	1228.59	1229.51	1216.30	1229.51	1229.46	1184.55
9/22/2023	1220.59	1232.28	1230.32	1201.55	1232.28	1212.54	1172.53	1212.54	1244.03	1186.34	1244.03	1188.80	1234.31	1182.03	1234.31	1229.79	1224.09	1229.79	1230.65	1215.85	1230.65	1230.32	1186.17
9/23/2023	1217.85	1231.35	1230.54	1179.57	1231.35	1209.33	1154.02	1209.33	1242.89	1173.30	1242.89	1173.46	1234.94	1184.67	1234.94	1230.59	1224.83	1230.59	1231.42	1216.37	1231.42	1230.54	1227.73
9/24/2023	1212.96	1227.46	1227.38	1169.63	1227.46	1203.84	1136.42	1203.84	1237.28	1158.27	1237.28	1156.10	1232.09	1175.19	1232.09	1227.70	1221.21	1227.70	1228.41	1211.37	1228.41	1227.38	1224.68
9/25/2023	1215.80	1227.86	1227.03	1178.89	1227.86	1203.96	1152.50	1203.96	1239.50	1173.21	1239.50	1154.78	1232.98	1181.91	1232.98	1228.03	1222.10	1228.03	1228.21	1213.31	1228.21	1227.03	1168.10
9/26/2023	1222.93	NA	1233.23	1198.42	NA	1214.17	1177.76	1214.17	1250.36	1193.33	1250.36	NA	1238.77	1185.01	1238.77	1233.68	1228.01	1233.68	1234.08	1220.66	1234.08	1233.23	1187.01
9/27/2023	1225.06	NA	1235.27	1201.73	NA	1216.57	1176.94	1216.57	1253.01	1194.42	1253.01	NA	1240.32	1188.05	1240.32	1235.43	1230.07	1235.43	1236.03	1222.82	1236.03	1235.27	1233.20
9/28/2023	1218.71	NA	1228.46	1193.36	NA	1211.48	1169.94	1211.48	1245.32	1184.87	1245.32	NA	1234.40	1184.21	1234.40	1229.40	1223.84	1229.40	1229.45	1214.77	1229.45	1228.46	1160.47
9/29/2023	1221.71	NA	1232.15	1193.86	NA	1213.59	1164.25	1213.59	1250.20	1183.94	1250.20	NA	1237.68	1181.30	1237.68	1232.72	1227.15	1232.72	1233.11	1216.42	1233.11	1232.15	1229.23
9/30/2023	1218.28	NA	1228.93	1182.41	NA	1210.06	1153.50	1210.06	1247.78	1180.85	1247.78	NA	1235.35	1168.52	1235.35	1230.04	1224.25	1230.04	1230.04	1212.28	1230.04	1228.93	1157.96

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-01 reconditioning 9/1/2023 - 9/11/2023

R-06 reconditioning 9/6/2023 - 9/7/2023

O-07 reconditioning 9/14/2023

R-02 reconditioning 9/11/2023 - 9/21/2023

O-02 reconditioning 9/12/2023 - 9/20/2023

R-05 reconditioning 9/26/2023 - 9/30/2023

O-01 reconditioning 9/26/2023 - 9/30/2023

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1a. Q3 2023 Water Levels

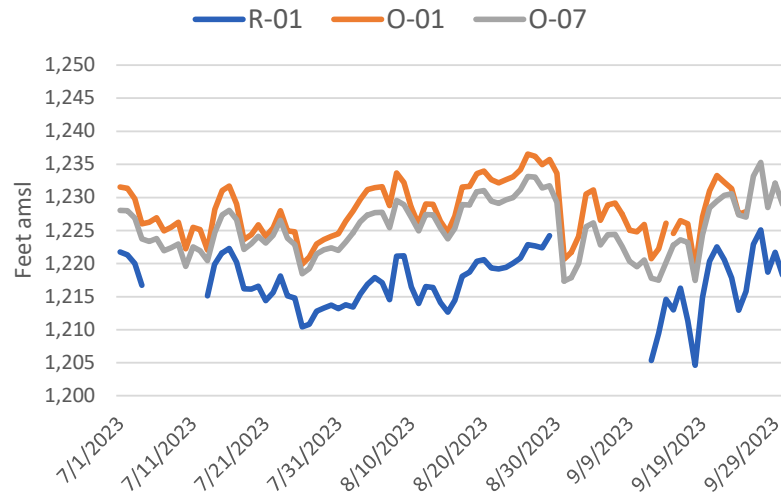


Figure 1b. Q3 2023 Water Levels

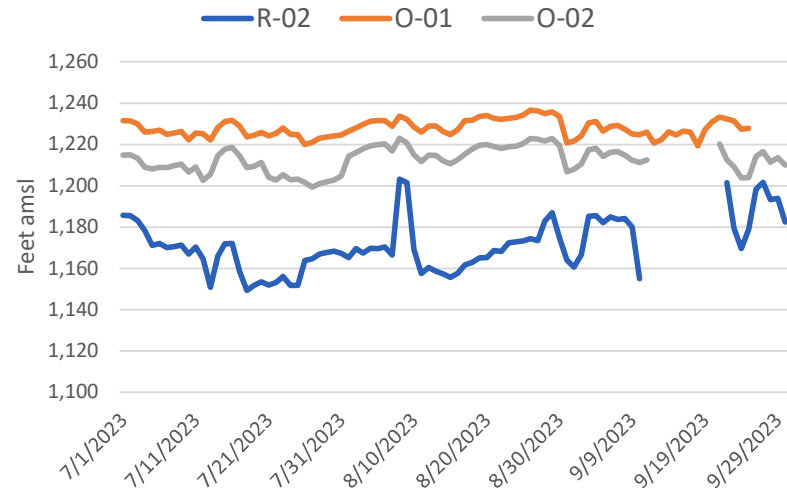


Figure 1c. Q3 2023 Water Levels

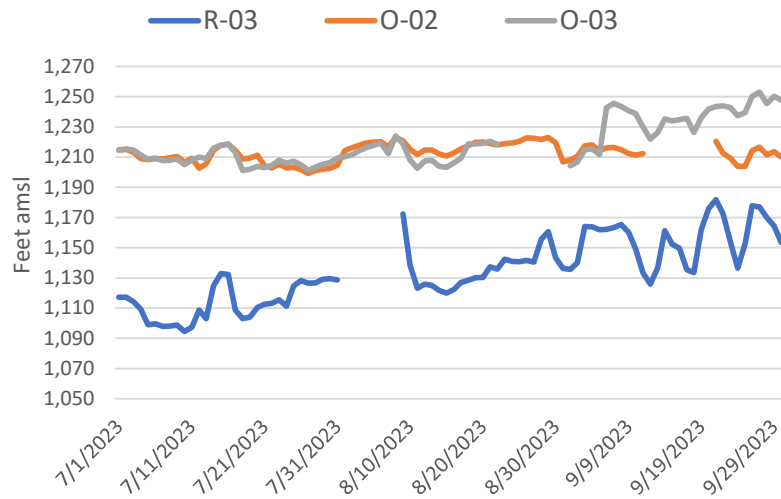
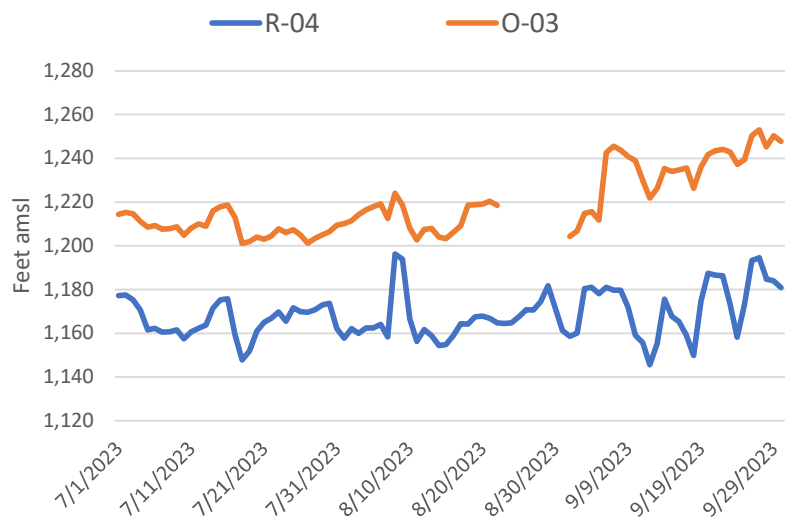


Figure 1d. Q3 2023 Water Levels



Notes:

Refer to preceding Daily Average Water Level Elevations Tables (Tables 1 - 3) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1e. Q3 2023 Water Levels

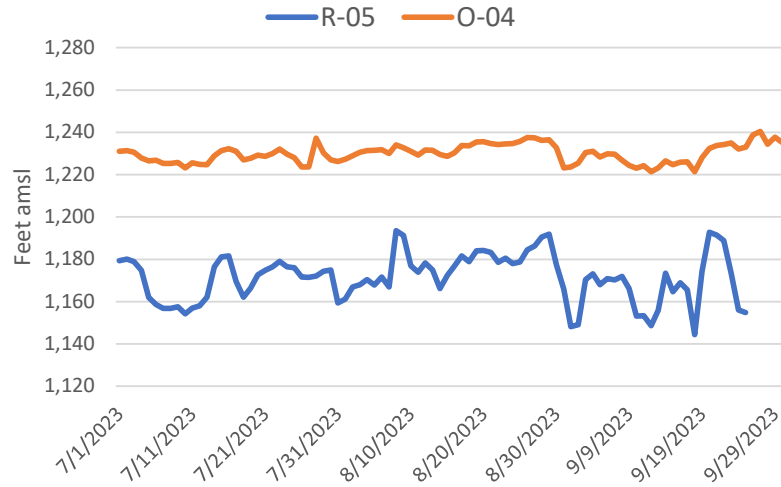


Figure 1f. Q3 2023 Water Levels

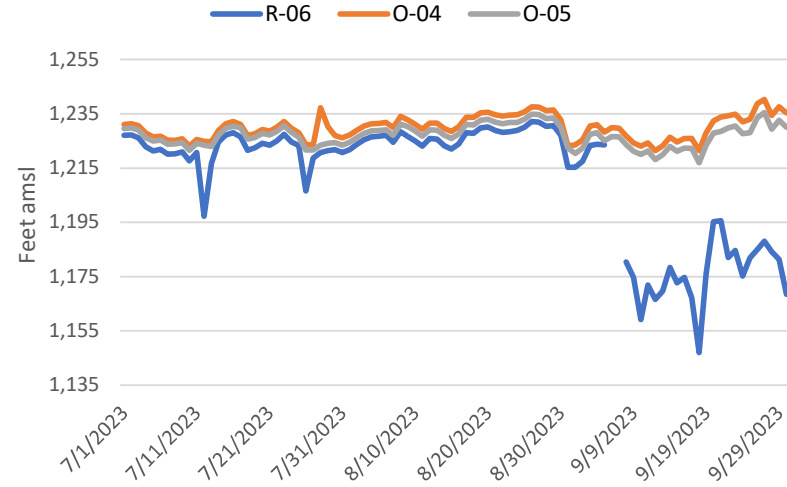


Figure 1g. Q3 2023 Water Levels

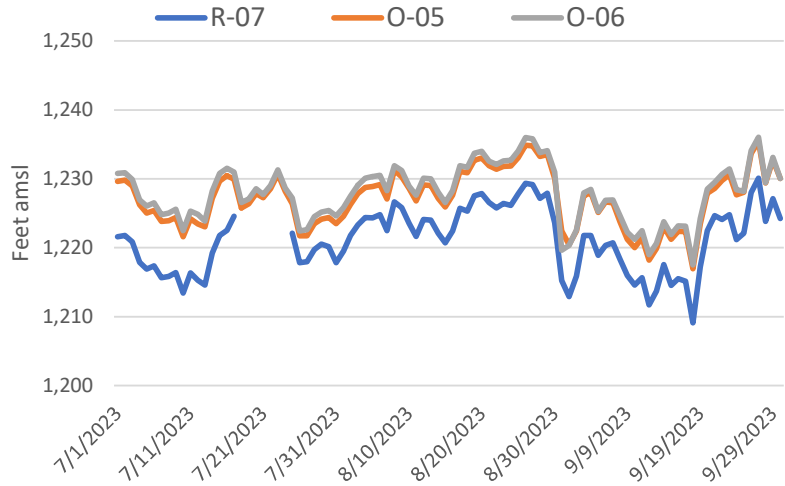
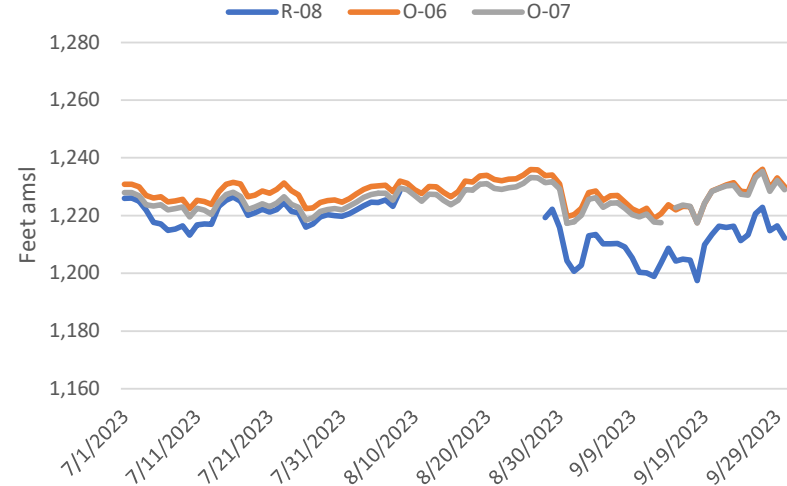


Figure 1h. Q3 2023 Water Levels



Notes:

Refer to preceding Daily Average Water Level Elevations Tables (Tables 1 - 3) for details on missing data points.

Q3 2023 DAILY HYDRAULIC GRADIENT FOR RECOVERY WELL PAIRINGS

PAGE 1 OF 3

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 4. July 2023 Daily Average Gradients

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients <1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
7/1/2023	9.81	6.28	45.87	29.23	97.73	97.19	37.13	51.73	3.99	2.46	8.00	9.20	4.88	2.09	Yes
7/2/2023	10.10	6.71	45.84	29.49	97.93	98.17	37.74	51.30	4.13	2.55	8.02	9.12	4.87	1.96	Yes
7/3/2023	9.80	6.86	46.64	30.10	98.94	100.35	39.29	51.74	4.44	2.78	8.13	9.08	4.92	1.86	Yes
7/4/2023	9.32	7.03	47.79	30.66	99.68	101.98	40.58	53.22	5.09	3.36	8.33	9.03	5.06	1.87	Yes
7/5/2023	NA	NA	55.15	37.14	109.21	109.52	47.03	64.62	5.15	3.67	8.13	9.12	8.34	5.64	Yes
7/6/2023	NA	NA	54.85	36.87	109.37	109.75	46.98	68.22	4.83	3.40	8.03	9.17	9.41	6.65	Yes
7/7/2023	NA	NA	54.90	38.77	110.95	109.84	47.20	68.47	5.12	3.60	8.14	9.10	9.91	7.06	Yes
7/8/2023	NA	NA	54.99	39.19	111.57	109.73	47.15	68.46	5.03	3.64	8.07	9.21	9.67	7.01	Yes
7/9/2023	NA	NA	54.89	39.10	111.67	109.89	47.12	68.18	4.83	3.42	8.00	9.20	9.12	6.51	Yes
7/10/2023	NA	NA	55.23	39.54	112.05	110.44	47.54	68.94	5.45	3.92	8.18	9.05	9.27	6.40	Yes
7/11/2023	NA	NA	55.15	38.84	111.82	110.77	47.46	68.68	4.84	3.40	7.85	8.98	8.56	5.75	Yes
7/12/2023	NA	NA	60.52	38.02	93.92	101.26	47.62	66.87	27.67	26.18	8.17	9.58	7.80	4.87	Yes
7/13/2023	6.96	5.34	71.25	54.65	102.50	105.95	45.14	62.69	8.00	6.31	8.44	9.31	6.95	3.51	Yes
7/14/2023	8.33	4.87	62.35	48.69	89.79	91.25	44.42	52.49	4.24	2.53	7.95	9.00	5.07	1.57	Yes
7/15/2023	9.46	5.75	59.08	45.84	85.02	85.12	42.58	50.18	4.07	2.40	7.89	9.00	5.51	2.05	Yes
7/16/2023	9.44	5.75	59.68	46.46	86.22	86.40	42.95	50.57	4.19	2.43	7.93	8.99	5.09	1.61	Yes
7/17/2023	8.80	6.43	70.40	55.98	105.77	104.21	53.72	61.55	4.55	2.43	5.37	6.41	6.05	1.67	Yes
7/18/2023	7.46	5.98	74.36	59.53	105.85	98.15	53.33	64.92	5.43	4.21	NA	NA	6.45	2.04	Yes
7/19/2023	8.22	6.85	72.63	57.71	105.31	97.81	50.08	61.50	5.22	3.83	NA	NA	6.08	1.99	Yes
7/20/2023	9.32	7.56	72.37	57.69	100.80	93.56	43.04	56.64	5.05	3.62	NA	NA	6.32	1.88	Yes
7/21/2023	9.75	8.73	72.19	52.26	91.60	90.38	37.91	53.88	5.26	3.80	NA	NA	6.46	1.86	Yes
7/22/2023	9.78	8.65	72.16	49.59	89.66	91.35	37.75	53.68	5.04	3.53	NA	NA	6.93	2.15	Yes
7/23/2023	9.85	8.42	71.88	49.28	89.76	92.20	38.02	53.16	4.63	3.20	NA	NA	6.75	1.99	Yes
7/24/2023	9.86	8.72	73.13	51.00	91.55	94.77	40.47	53.37	5.12	3.56	NA	NA	7.23	2.43	Yes
7/25/2023	9.98	8.05	62.05	40.56	78.71	82.76	35.66	52.00	4.66	2.98	4.27	5.12	6.26	1.87	Yes
7/26/2023	9.44	8.00	55.94	37.78	73.57	76.85	35.09	52.02	17.10	15.21	3.90	4.59	6.42	2.41	Yes
7/27/2023	10.17	8.40	56.36	34.65	72.71	74.66	31.68	52.08	4.80	2.92	3.75	4.65	5.53	2.13	Yes
7/28/2023	10.17	8.63	56.06	34.15	74.35	76.68	32.62	65.13	16.50	2.75	3.76	4.79	4.99	1.90	Yes
7/29/2023	10.36	8.82	55.84	34.20	72.98	76.04	32.13	55.89	8.79	2.66	3.63	4.66	4.88	1.80	Yes
7/30/2023	10.39	8.68	55.75	34.35	73.18	76.98	32.74	51.95	5.19	2.61	4.21	5.24	5.43	2.43	Yes
7/31/2023	11.35	8.83	57.31	37.50	76.11	80.80	47.25	66.84	5.46	2.73	5.64	6.76	4.89	2.28	Yes

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-01 redevelopment 7/5/2023 - 7/12/2023

R-07 redevelopment 7/18/2023 - 7/24/2023

Q3 2023 DAILY HYDRAULIC GRADIENT FOR RECOVERY WELL PAIRINGS

PAGE 2 OF 3

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 5. August 2023 Daily Average Gradients

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	<1 foot?
8/1/2023	12.63	9.51	61.11	49.06	NA	NA	52.46	66.09	5.34	2.69	5.06	6.30	5.13	2.59	Yes
8/2/2023	14.50	11.22	58.29	46.43	NA	NA	49.34	62.11	5.17	2.50	4.53	5.73	5.53	2.68	Yes
8/3/2023	14.35	10.90	62.37	50.49	NA	NA	54.30	62.54	5.12	2.42	4.55	5.76	5.63	2.85	Yes
8/4/2023	14.34	10.46	61.40	49.49	NA	NA	53.98	61.05	4.85	2.18	4.37	5.71	5.40	2.64	Yes
8/5/2023	13.63	9.83	61.86	50.34	NA	NA	55.44	63.70	4.74	2.11	4.57	5.99	5.76	3.15	Yes
8/6/2023	14.51	10.62	61.20	49.83	NA	NA	55.26	60.17	4.72	2.06	4.35	5.74	5.11	2.32	Yes
8/7/2023	14.23	10.89	62.22	50.26	NA	NA	54.03	63.07	5.42	2.51	4.57	5.77	5.04	2.19	Yes
8/8/2023	12.62	8.46	30.51	19.80	NA	NA	27.86	40.61	5.67	2.79	4.60	5.27	3.38	1.02	Yes
8/9/2023	11.06	7.76	30.67	19.18	48.45	46.37	24.81	41.44	6.14	3.63	4.43	5.37	NA	NA	Yes
8/10/2023	11.97	10.49	59.34	45.92	76.57	69.68	41.63	54.23	6.04	3.57	5.05	5.38	NA	NA	Yes
8/11/2023	11.96	10.95	68.45	54.24	88.65	79.57	46.31	55.42	6.20	3.66	5.14	6.00	NA	NA	Yes
8/12/2023	12.48	10.90	68.57	54.34	88.94	81.71	45.90	53.45	5.73	3.19	5.02	6.01	NA	NA	Yes
8/13/2023	12.56	10.95	70.40	56.09	89.54	82.91	49.11	56.62	5.82	3.29	5.02	5.99	NA	NA	Yes
8/14/2023	12.26	11.25	69.05	54.78	90.34	82.20	49.56	63.44	6.32	3.91	5.08	5.94	NA	NA	Yes
8/15/2023	12.12	11.07	69.18	55.03	90.59	83.20	48.47	56.28	6.50	3.83	5.23	5.86	NA	NA	Yes
8/16/2023	12.73	10.89	69.57	55.09	90.47	83.90	47.21	53.54	6.29	3.63	5.19	5.86	NA	NA	Yes
8/17/2023	13.51	10.87	69.81	53.50	88.22	82.07	44.71	52.08	5.66	3.01	5.37	6.20	NA	NA	Yes
8/18/2023	12.97	10.16	68.69	54.74	89.34	90.29	54.47	54.74	5.81	3.00	5.57	6.34	NA	NA	Yes
8/19/2023	13.29	10.51	68.55	54.60	89.51	88.59	51.13	51.47	5.52	2.81	5.16	6.15	NA	NA	Yes
8/20/2023	13.39	10.46	68.67	54.68	89.71	88.77	51.24	51.47	5.52	2.86	5.16	6.14	NA	NA	Yes
8/21/2023	13.38	10.11	63.98	50.28	81.74	83.12	53.48	51.51	5.89	3.07	5.36	6.02	NA	NA	Yes
8/22/2023	13.01	9.91	63.94	49.86	82.33	82.67	53.63	55.65	6.05	3.22	5.60	6.31	NA	NA	Yes
8/23/2023	13.26	10.24	60.29	46.53	76.57	NA	NA	54.01	6.09	3.37	5.36	6.16	NA	NA	Yes
8/24/2023	13.07	9.91	60.28	46.41	78.32	NA	NA	56.64	5.81	2.99	5.71	6.57	NA	NA	Yes
8/25/2023	13.35	10.38	60.83	47.03	79.68	NA	NA	56.99	5.67	3.01	5.24	6.20	NA	NA	Yes
8/26/2023	13.66	10.27	62.16	48.43	81.34	NA	NA	53.05	5.37	2.68	5.53	6.61	NA	NA	Yes
8/27/2023	13.53	10.39	62.77	49.06	82.07	NA	NA	51.14	5.50	2.80	5.63	6.65	NA	NA	Yes
8/28/2023	12.58	9.04	52.03	38.77	66.21	NA	NA	45.72	5.82	2.80	6.05	6.61	14.44	12.06	Yes
8/29/2023	11.52	7.55	48.86	36.06	62.27	NA	NA	44.53	5.75	2.80	5.62	6.20	11.94	9.62	Yes
8/30/2023	NA	NA	58.93	44.79	76.22	NA	NA	55.45	5.73	2.99	6.44	7.34	15.03	13.32	Yes
8/31/2023	NA	NA	56.73	42.81	70.52	NA	NA	57.33	7.94	7.18	7.24	4.45	15.36	13.02	Yes

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-03 redevelopment 8/1/2023 - 8/8/2023

R-08 redevelopment 8/9/2023 - 8/27/2023

O-03 redevelopment 8/23/2023 - 8/31/2023

R-01 redevelopment 8/30/2023 - 8/31/2023

Q3 2023 DAILY HYDRAULIC GRADIENT FOR RECOVERY WELL PAIRINGS

PAGE 3 OF 3

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 6. September 2023 Daily Average Gradients

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	<1 foot?
9/1/2023	NA	NA	60.99	47.37	72.51	68.71	45.67	75.47	8.35	5.13	7.52	7.46	19.65	17.14	Yes
9/2/2023	NA	NA	57.45	43.83	70.47	66.75	46.73	76.45	7.87	4.83	6.54	6.67	19.76	17.26	Yes
9/3/2023	NA	NA	45.21	32.14	53.50	50.93	34.44	60.12	7.11	4.14	5.73	6.19	15.00	12.61	Yes
9/4/2023	NA	NA	45.62	32.62	54.39	51.80	34.56	57.86	7.20	4.15	6.26	6.70	15.05	12.74	Yes
9/5/2023	NA	NA	44.43	32.13	52.39	49.89	33.63	60.38	4.77	1.58	6.24	6.38	15.03	12.58	Yes
9/6/2023	NA	NA	43.87	31.27	54.08	80.41	61.58	59.00	NA	NA	6.30	6.54	16.63	14.08	Yes
9/7/2023	NA	NA	45.41	32.71	53.03	82.16	65.90	59.44	NA	NA	5.81	6.21	16.64	14.14	Yes
9/8/2023	NA	NA	43.35	30.70	49.41	78.20	63.82	54.87	46.49	43.39	5.43	6.33	15.52	13.42	Yes
9/9/2023	NA	NA	45.08	32.36	52.06	80.48	68.87	58.12	49.61	46.49	5.24	6.28	16.89	14.99	Yes
9/10/2023	NA	NA	69.80	56.31	62.03	89.63	79.89	69.88	63.96	60.87	5.46	6.64	20.85	19.16	Yes
9/11/2023	NA	NA	NA	NA	79.04	96.54	74.27	70.95	52.43	49.54	5.74	6.82	22.31	20.39	Yes
9/12/2023	15.40	12.45	NA	NA	NA	95.95	76.24	72.68	54.71	51.56	6.49	7.26	20.11	18.90	Yes
9/13/2023	12.73	8.02	NA	NA	NA	89.69	70.97	67.31	53.54	50.19	6.21	6.94	17.12	13.99	Yes
9/14/2023	11.53	NA	NA	NA	NA	73.90	59.61	52.97	48.05	44.62	5.50	6.26	15.17	NA	Yes
9/15/2023	11.60	9.80	NA	NA	NA	81.65	66.38	59.93	51.97	48.56	6.68	7.37	17.64	18.48	Yes
9/16/2023	10.22	7.32	NA	NA	NA	85.14	69.33	57.03	51.20	47.67	6.87	7.68	18.25	18.67	Yes
9/17/2023	14.66	11.83	NA	NA	NA	100.11	76.40	60.37	58.82	55.16	7.19	7.99	18.61	18.65	Yes
9/18/2023	14.68	12.84	NA	NA	NA	92.82	76.55	77.10	74.41	81.05	7.84	8.40	20.03	19.99	Yes
9/19/2023	12.20	9.48	NA	NA	NA	74.22	61.25	53.68	51.90	47.28	6.21	7.00	14.37	14.48	Yes
9/20/2023	10.63	8.07	NA	NA	NA	65.92	54.31	39.71	37.19	32.64	5.40	6.01	15.02	14.94	Yes
9/21/2023	10.81	6.95	NA	NA	38.58	61.81	56.95	42.37	38.21	32.93	3.92	4.84	13.21	13.16	Yes
9/22/2023	11.69	9.72	30.73	10.99	40.01	71.50	57.69	45.51	52.28	47.76	5.70	6.57	14.80	14.46	Yes
9/23/2023	13.50	12.69	51.79	29.76	55.30	88.87	69.59	61.49	50.27	45.92	5.77	6.60	15.05	14.17	Yes
9/24/2023	14.50	14.42	57.83	34.21	67.42	100.87	79.02	75.99	56.90	52.51	6.50	7.21	17.05	16.01	Yes
9/25/2023	12.06	11.23	48.97	25.07	51.46	87.00	66.29	78.20	51.07	46.12	5.93	6.12	14.91	13.73	Yes
9/26/2023	NA	10.31	NA	15.75	36.41	72.60	57.03	NA	53.75	48.66	5.67	6.07	13.42	12.57	Yes
9/27/2023	NA	10.20	NA	14.84	39.63	76.07	58.59	NA	52.27	47.37	5.35	5.96	13.21	12.44	Yes
9/28/2023	NA	9.75	NA	18.11	41.54	75.38	60.46	NA	50.19	45.20	5.56	5.61	14.68	13.69	Yes
9/29/2023	NA	10.44	NA	19.73	49.34	85.95	66.26	NA	56.38	51.42	5.58	5.97	16.69	15.73	Yes
9/30/2023	NA	10.66	NA	27.66	56.57	94.29	66.93	NA	66.83	61.52	5.79	5.79	17.76	16.65	Yes

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-01 down for reconditioning from 9/1/2023 to 9/11/2023

R-06 down for reconditioning from 9/6/2023 to 9/7/2023

O-07 down for reconditioning on 9/14/2023

R-02 down for reconditioning from 9/11/2023 to 9/21/2023

O-02 down for reconditioning from 9/12/2023 to 9/20/2023

R-05 down for reconditioning from 9/26/2023 to 9/30/2023

O-01 down for reconditioning from 9/26/2023 to 9/30/2023

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1 i. Hydraulic Gradient for Wells Paired with R-01

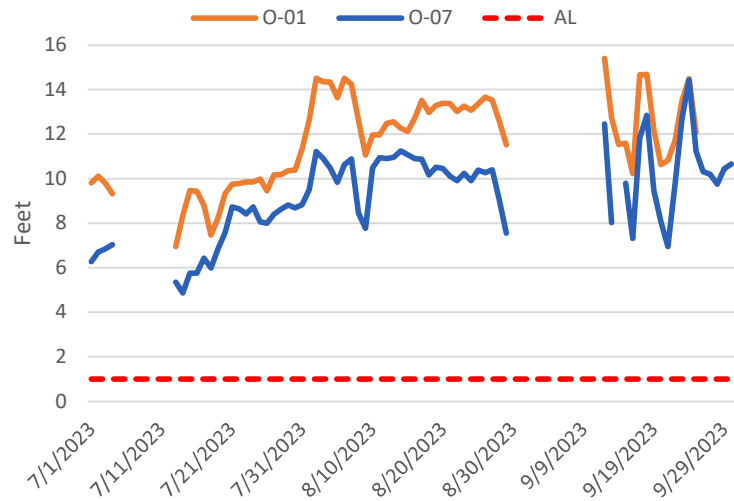


Figure 1j. Hydraulic Gradient for Wells Paired with R-02

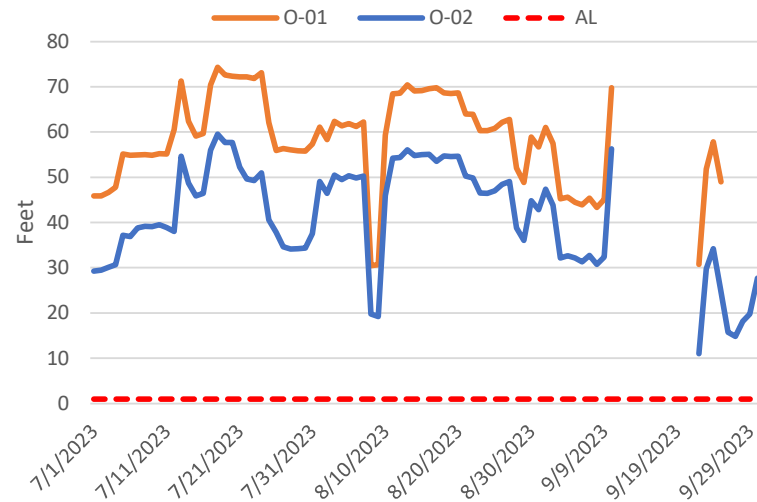


Figure 1k. Hydraulic Gradient for Wells Paired with R-03

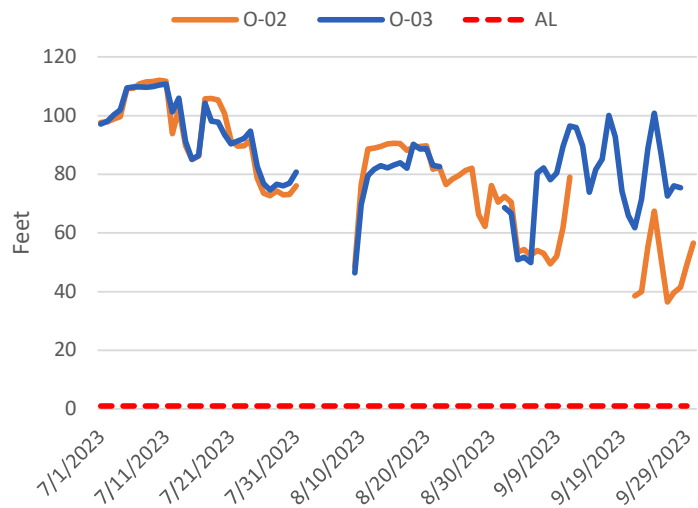
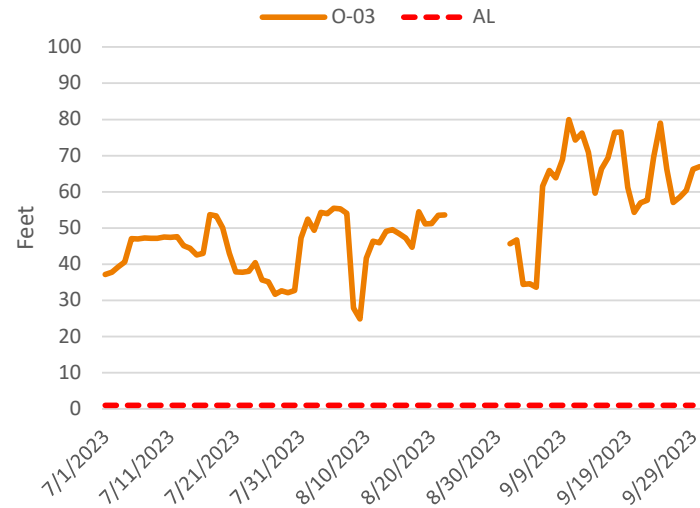


Figure 1l. Hydraulic Gradient for Wells Paired with R-04



Notes:

Refer to preceding Daily Hydraulic Gradient for Recovery Well Pairings Tables (Tables 4 - 6) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1m. Hydraulic Gradient for Wells Paired with R-05

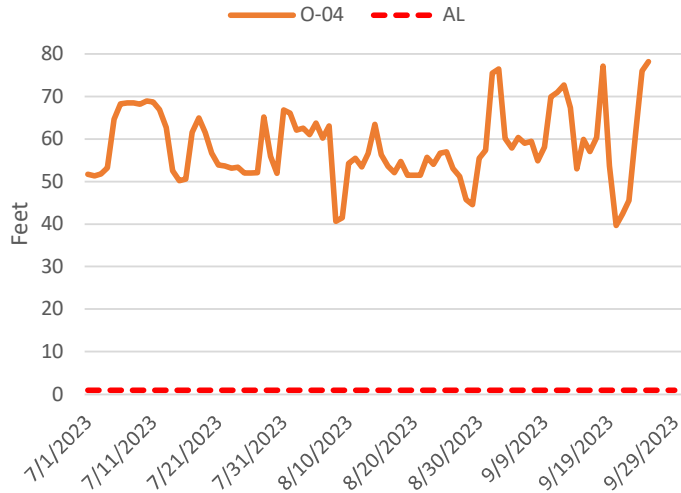


Figure 1n. Hydraulic Gradient for Wells Paired with R-06

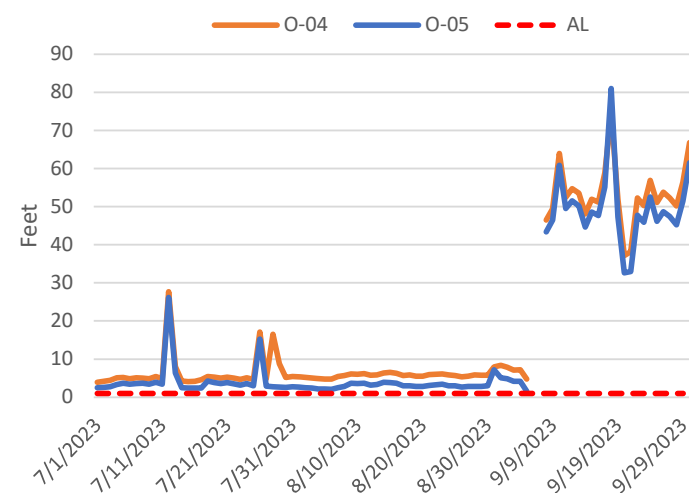


Figure 1o. Hydraulic Gradient for Wells Paired with R-07

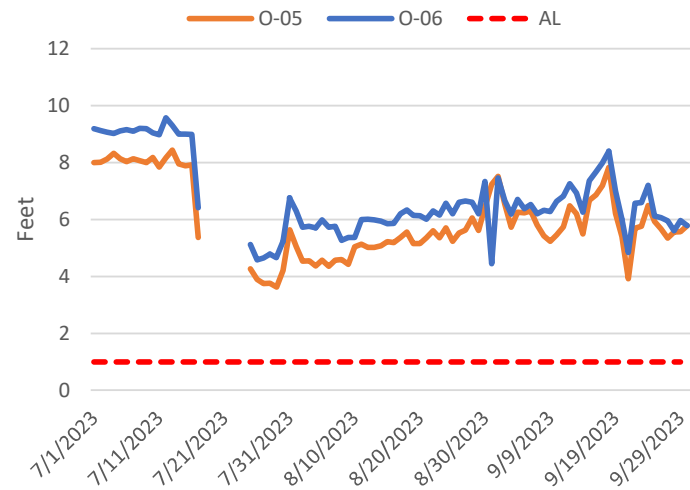
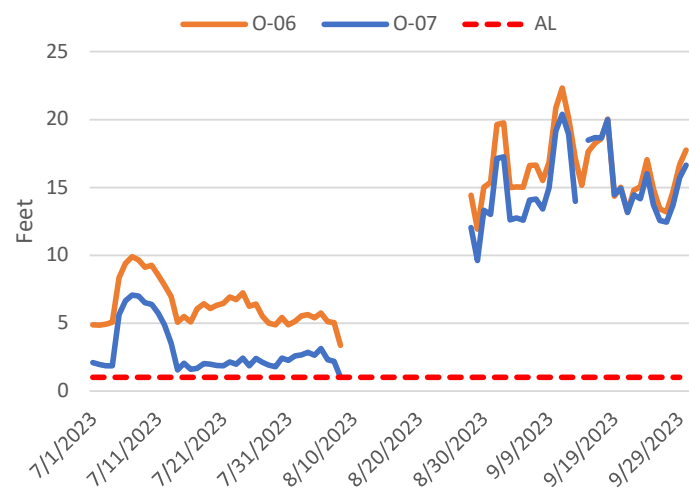


Figure 1p. Hydraulic Gradient for Wells Paired with R-08



Notes:

Refer to preceding Daily Hydraulic Gradient for Recovery Well Pairings Tables (Tables 4 - 6) for details on missing data points.

ATTACHMENT 4

Table and Graphs of Fluid Electrical Conductivity Measurements

Q3 2023 DAILY FLUID ELECTRICAL CONDUCTIVITY
INJECTION AND OBSERVATION WELLS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

PAGE 1 OF 3

Table 1. July 2023 Daily Fluid Electrical Conductivity - Injection and Observation Wells

Date	I-01	I-02	I-03	I-04	R-09	O-01	O-02	O-03	O-04	O-05	O-06	O-07
7/1/2023	1164	NA	1024	NA	1522	3155	NA	NA	2009	1891	1611	1146
7/2/2023	1137	NA	1126	NA	1247	3198	NA	NA	2184	1889	1618	1204
7/3/2023	1771	NA	1749	NA	1741	3217	NA	NA	2180	1878	1618	1149
7/4/2023	848	4030	858	NA	917	3173	NA	NA	1876	1874	1614	1113
7/5/2023	1017	4575	982	NA	992	3012	2107	NA	1685	1894	1580	1034
7/6/2023	1413	4335	1319	NA	1278	2941	NA	NA	1568	1890	1559	1007
7/7/2023	1419	4818	1372	NA	1377	2993	NA	NA	1620	1875	1557	1031
7/8/2023	776	2968	1052	NA	762	2947	NA	NA	1595	1887	1541	1004
7/9/2023	797	3731	1571	NA	963	2991	NA	NA	1712	1889	1545	1027
7/10/2023	1682	4488	1566	NA	1701	3001	NA	NA	1683	1884	1541	927
7/11/2023	1303	4230	1591	NA	1404	2926	1453	NA	1544	1864	1535	993
7/12/2023	1302	4120	1256	NA	1282	2977	NA	NA	1545	1867	1547	1009
7/13/2023	1148	NA	1062	NA	1146	2997	2791	4410	1604	1883	1537	1013
7/14/2023	1307	NA	1207	NA	1261	3014	NA	NA	1537	1868	1543	1051
7/15/2023	1556	NA	1456	NA	1658	2974	NA	NA	1588	1884	1546	1119
7/16/2023	980	NA	1277	NA	972	2993	NA	NA	1579	1884	1552	1089
7/17/2023	1356	NA	1370	NA	1385	3012	NA	NA	1606	1889	1555	1048
7/18/2023	1450	NA	1171	NA	1180	3002	NA	3291	1538	1874	1539	1133
7/19/2023	627	NA	631	NA	625	2894	NA	NA	1520	1864	1523	1108
7/20/2023	336	NA	318	NA	665	2828	NA	NA	1526	1878	1520	1110
7/21/2023	587	4289	685	NA	644	2818	NA	3652	1524	1873	1520	1172
7/22/2023	769	NA	760	NA	1041	2810	NA	NA	1521	1868	1509	1193
7/23/2023	674	NA	591	NA	605	2837	NA	NA	1526	1870	1506	1192
7/24/2023	1042	NA	917	NA	847	2872	NA	NA	1527	1876	1501	1191
7/25/2023	561	NA	575	NA	606	2911	2832	3501	1530	1869	1490	1165
7/26/2023	736	NA	745	NA	771	2929	3122	3936	1521	1493	1499	1033
7/27/2023	NA	NA	NA	NA	NA	2953	NA	NA	1515	1486	1498	950
7/28/2023	593	NA	572	NA	573	2857	2926	3721	1527	1497	1508	1107
7/29/2023	NA	NA	NA	NA	NA	2891	NA	NA	1410	1498	1515	1114
7/30/2023	706	NA	913	NA	855	2916	3147	4337	1325	1502	1514	1156
7/31/2023	593	NA	573	NA	632	2935	2865	3520	1329	1499	1522	1077

Notes:

All measurements in microsiemens per centimeter

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

7/1 - 7/3/2023 I-02 off

7/1 - 7/4 O-02 off

7/1 - 7/31/2023 I-04 off

7/1 - 7/12/2023 O-03 off

7/6 - 7/10/2023 O-02 off

7/12/2023 O-02 field error

7/13 - 7/20/2023 I-02 off

7/14 - 7/24/2023 O-02 no data available

7/14 - 7/17/2023 O-03 off

7/19 and 7/22/2023 O-03 no data available

7/22 - 7/24/2023 O-03 no data available

7/22 - 7/31/2023 I-02 off

7/27/2023 I-01, I-03, and R-09 off

7/27 - 7/29/2023 O-03 no data available

7/27 and 7/29/2023 O-02 no data available

7/29/2023 I-01, I-03, and R-09 no data available

Q3 2023 DAILY FLUID ELECTRICAL CONDUCTIVITY
INJECTION AND OBSERVATION WELLS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

PAGE 2 OF 3

Table 2. August 2023 Daily Fluid Electrical Conductivity - Injection and Observation Wells

Date	I-01	I-02	I-03	I-04	R-09	O-01	O-02	O-03	O-04	O-05	O-06	O-07
8/1/2023	631	NA	1084	NA	711	2953	NA	NA	1327	1498	1523	1101
8/2/2023	925	NA	659	NA	760	2962	NA	NA	1417	1501	1522	1173
8/3/2023	777	NA	634	NA	4005	2973	NA	NA	1366	1499	1528	1199
8/4/2023	661	NA	659	NA	416	2985	NA	NA	1421	1500	1541	1230
8/5/2023	NA	NA	NA	NA	NA	2993	NA	NA	1367	1502	1522	1204
8/6/2023	455	NA	407	NA	585	3000	NA	NA	1386	1502	1524	1273
8/7/2023	NA	NA	NA	NA	NA	3007	NA	NA	1369	1502	1534	1259
8/8/2023	685	NA	679	NA	708	3016	1619	3562	1400	1513	1532	1214
8/9/2023	NA	NA	523	NA	481	3016	NA	NA	1448	1483	1559	924
8/10/2023	NA	NA	181	NA	226	2985	NA	NA	1303	1490	1403	1043
8/11/2023	438	NA	450	NA	478	2854	NA	NA	1314	1492	1523	1022
8/12/2023	698	NA	669	NA	677	2767	NA	3728	1319	1493	1491	1368
8/13/2023	680	NA	682	NA	673	2731	NA	4048	1334	1494	1541	1251
8/14/2023	706	NA	658	NA	662	2706	NA	3708	1316	1494	1520	1441
8/15/2023	610	NA	509	NA	526	2745	1323	3394	1310	1481	1527	998
8/16/2023	461	NA	458	NA	469	2680	NA	NA	1315	1487	1433	1311
8/17/2023	475	NA	705	NA	806	2548	NA	3606	1318	1490	1469	3008
8/18/2023	652	NA	645	NA	665	2579	NA	NA	1375	1491	1549	1585
8/19/2023	740	NA	725	NA	762	2569	NA	NA	1354	1492	1529	2880
8/20/2023	595	NA	594	NA	590	2592	NA	NA	1358	1494	1532	2886
8/21/2023	762	NA	672	NA	716	2608	2384	NA	1384	1490	1579	1428
8/22/2023	606	NA	612	NA	601	2792	NA	NA	1363	1427	1567	2608
8/23/2023	679	NA	707	NA	688	2573	NA	NA	1352	1489	1514	3070
8/24/2023	634	NA	641	NA	693	2577	NA	NA	1330	1488	NA	1545
8/25/2023	677	NA	655	NA	649	2588	NA	NA	1349	1491	NA	1465
8/26/2023	816	NA	715	NA	749	2586	NA	NA	1349	1492	NA	3523
8/27/2023	673	NA	637	NA	641	2604	NA	NA	1390	1493	NA	3262
8/28/2023	616	NA	653	NA	679	2620	NA	NA	1372	1488	NA	1613
8/29/2023	859	NA	808	NA	823	2580	2276	NA	1356	1490	NA	1542
8/30/2023	633	NA	591	NA	635	2611	NA	NA	1413	1489	NA	1425
8/31/2023	471	NA	496	NA	477	2624	NA	NA	1358	1491	NA	1428

Notes:

All measurements in microsiemens per centimeter

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

8/1 - 8/31/2023 I-02 and I-04 off

8/1 - 8/6/2023 O-03 off

8/1/2023 O-02 off

8/2 - 8/7/2023 O-02 no data available

8/5/2023 I-01, I-03, and R-09 no data available due to lightning

8/7/2023 O-03 off

8/7/2023 I-01, I-03, and R-09 no data available

8/9 - 8/14/2023 O-02 no data available

8/9 - 8/10/2023 I-01 no data available

8/9 - 8/11/2023 O-03 no data available

8/16/2023 O-03 no data available

8/16/2023 O-02 no data available

8/17 - 8/20/2023 O-02 off

8/18 - 8/21/2023 O-03 off

8/22/2023 O-02 no data available

8/22 - 8/31/2023 O-03 reconditioning

8/23 - 8/28/2023 O-02 off

8/24 - 8/31/2023 O-06 transducer sensor disabled

8/30 - 8/31/2023 O-02 off

Q3 2023 DAILY FLUID ELECTRICAL CONDUCTIVITY
INJECTION AND OBSERVATION WELLS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

PAGE 3 OF 3

Table 3. September 2023 Daily Fluid Electrical Conductivity - Injection and Observation Wells

Date	I-01	I-02	I-03	I-04	R-09	O-01	O-02	O-03	O-04	O-05	O-06	O-07
9/1/2023	770	NA	768	NA	920	2619	NA	NA	1303	1492	1612	1432
9/2/2023	599	893	704	683	1248	2616	NA	NA	1312	1479	1566	1435
9/3/2023	655	674	660	660	1664	2611	NA	NA	1308	1479	1552	1435
9/4/2023	669	681	643	721	1861	2609	NA	NA	1313	1481	1529	1436
9/5/2023	566	566	576	559	2024	2602	NA	NA	1319	1479	1556	1433
9/6/2023	529	497	502	538	2489	2603	1377	NA	1318	1476	1490	1431
9/7/2023	751	661	661	655	2565	2602	NA	NA	1323	1479	1494	1431
9/8/2023	743	675	692	678	2833	2599	NA	NA	1303	1492	1612	1432
9/9/2023	605	614	613	613	2846	2597	NA	NA	1312	1479	1566	1435
9/10/2023	636	656	656	642	2924	2593	NA	NA	1308	1479	1552	1435
9/11/2023	591	627	611	617	3106	4984	NA	NA	1313	1481	1529	1436
9/12/2023	434	439	439	439	2989	2582	NA	3519	1319	1479	1556	1433
9/13/2023	612	370	371	365	2975	2586	NA	3624	1318	1476	1490	1431
9/14/2023	414	487	461	459	3024	2595	NA	3506	1323	1479	1494	NA
9/15/2023	748	629	619	613	3211	2599	NA	3340	1325	1479	1579	1432
9/16/2023	504	507	472	559	3560	2604	NA	NA	1377	1482	1576	1435
9/17/2023	530	498	504	503	3670	2605	NA	NA	1390	1482	1570	1434
9/18/2023	837	414	433	422	3447	2608	NA	NA	1411	1481	1536	1429
9/19/2023	580	440	422	441	3468	2614	NA	3498	1357	1467	1492	1464
9/20/2023	434	441	446	449	3418	2752	NA	NA	1525	59	1495	1465
9/21/2023	625	630	612	645	3344	NA	NA	NA	1512	1528	1487	1464
9/22/2023	451	455	465	464	3501	NA	NA	NA	1743	1528	1494	1465
9/23/2023	360	361	361	368	NA	NA	NA	NA	1878	1530	1507	1476
9/24/2023	545	457	468	442	NA	NA	3378	3875	1718	1530	1525	1485
9/25/2023	414	411	421	424	NA	NA	2672	3491	2711	1529	1515	1565
9/26/2023	538	478	474	477	3555	NA	2998	3597	1859	1530	1506	1494
9/27/2023	252	221	263	242	NA	NA	2902	3523	3443	1538	1527	1607
9/28/2023	606	443	460	463	NA	NA	2739	3509	3374	1535	1534	1665
9/29/2023	397	408	405	633	NA	NA	2804	3378	3078	1532	1528	1498
9/30/2023	511	378	389	371	NA	NA	2917	3415	3048	1534	1532	1552

Notes:

All measurements in microsiemens per centimeter

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

9/1/2023 I-02 and I-04 off

9/1 - 9/5/2023 O-02 off

9/1 - 9/10/2023 O-03 off

9/7 - 9/20/2023 O-02 reconditioning

9/11/2023 O-03 no data available

9/14/2023 O-07 off for cement logs

9/16 - 9/18/2023 O-03 no data available

9/20 - 9/23/2023 O-03 no data available

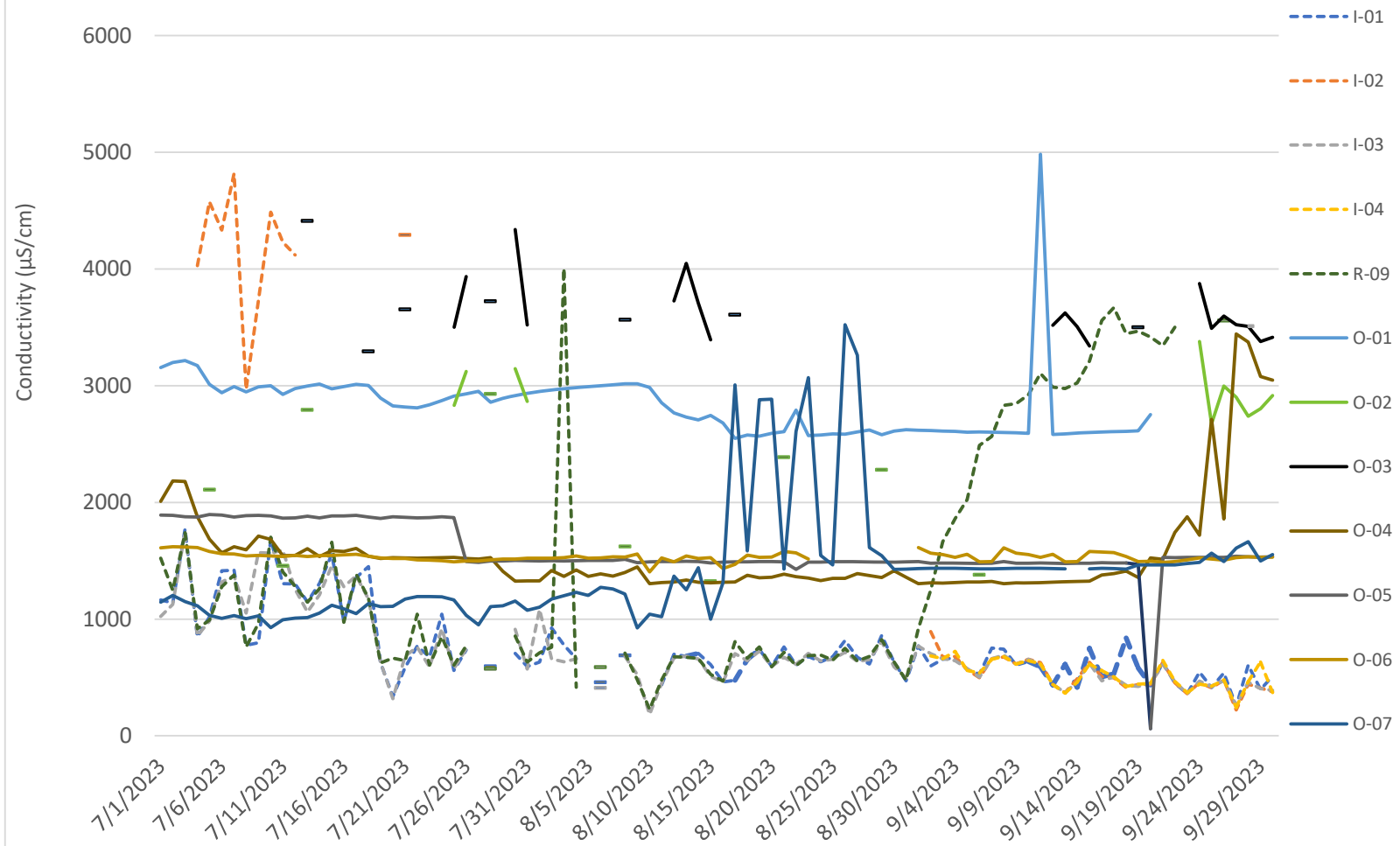
9/21 - 9/23/2023 O-02 reconditioning

9/21 - 9/24/2023 O-01 no data available

9/23 - 9/25/2023 R-09 off

9/25 - 9/30/2023 O-01 off

Figure 1. Daily Fluid Electrical Conductivity in Injection and Observation Wells



ATTACHMENT 5

Table and Graphs of Bulk Electrical Conductivity Measurements

MEMORANDUM

28 October 2023
File No. 133887-018

TO: Florence Copper LLC
Mr. John Mays, General Manager

C: Florence Copper Inc.
Mr. Ian Ream, Hydrogeologic Superintendent

FROM: Haley & Aldrich, Inc.
Laura Menken, R.G., Project Manager

SUBJECT: Summary of Bulk Electrical Conductivity Monitoring Results
Third Quarter 2023, Production Test Facility, Florence Copper LLC,
Florence, Arizona



Haley & Aldrich, Inc. (Haley & Aldrich) has conducted statistical analysis of bulk electrical conductivity (EC) data collected by HydroGeophysics, Inc. at the Florence Copper LLC (Florence Copper) Production Test Facility (PTF) located in Florence, Arizona, in accordance with Underground Injection Control (UIC) Permit No. R9UIC-AZ3-FR11-1. The procedures used to complete the analysis were described in the document titled *Procedures for Determining Bulk Electrical Conductivity Alert Levels* (Haley & Aldrich, 2018).¹

Alert levels (AL) for bulk EC were initially approved in the letter issued by the U.S. Environmental Protection Agency (USEPA) dated 14 December 2018. On 27 February 2020, Florence Copper submitted a request to revise bulk EC ALs to the USEPA. The proposed ALs were adopted in the now-retired Temporary Aquifer Protection Permit (Temporary APP) No. P-106360 on 13 February 2020. The bulk EC ALs remained unchanged in subsequent amendments of the Temporary APP until its retirement on 14 December 2020.

¹ Haley & Aldrich, Inc., 2018. *Procedures for Determining Bulk Electrical Conductivity Alert Levels, Production Test Facility, Florence Copper Project*. August.

Alert Levels

To ensure that in-situ copper recovery (ISCR) fluids do not enter the Lower Basin Fill Unit (LBFU) from the Bedrock Oxide Unit, the three upper horizons (1 through 3) are monitored. The following ALs are established for these horizons:

Electrode Pair Horizon	Alert Level (ohm-meters)
Horizon 1	9.67
Horizon 2	9.89
Horizon 3	10.07

The ALs represent minimum values. Consequently, an exceedance is indicated if the measured apparent resistivity on one of these horizons is *lower* than the established AL on three adjacent or intersecting current paths.

Third Quarter 2023 Monitoring Results

Third quarter (Q3) 2023 includes 12 monitoring events for bulk EC between 5 July and 29 September 2023. Monitoring events were conducted on a weekly basis. No bulk EC AL exceedances occurred during the Q3 2023 monitoring period. Bulk EC monitoring maps for the monitoring period detail these results (Figures 1 through 12).

Data Summary

Tables 1 through 3 list the apparent resistivity results over this monitoring period for horizons 1 through 3, respectively.

Bulk EC data from one monitoring event were outside the range of the baseline dataset. Bulk EC data collected on 5 September 2023 indicated three current paths involving well O-02 on horizon 3 exceeded the horizon AL. The apparent resistivities were reported at -0.01, -2.03, and 2.87 ohm-meters (Ω -m), below the horizon AL of 10.07 Ω -m. These values indicate abnormal reverse voltage/current (V/I). The abnormal reverse voltage/current (V/I) values observed on 5 September 2023 were not repeated in the subsequent three monitoring events. These measurements were determined to be outliers, defined as values over 4 times the interquartile range outside the range around the data median. Therefore, the abnormal readings obtained on 5 September 2023 are not the result of excursion of injected fluid. No bulk EC AL exceedance has occurred.

No other outliers relative to the baseline dataset were detected on these monitoring dates. As shown by the box plots presented in Attachment A and Tables 1 through 3, all other grouped data from each horizon fall within the range of the baseline dataset.

Attachment B shows the data from each horizon over time, during the baseline period, and monitoring both before and after the PTF became operational. The data collected during Q3 2023 is within the established tolerance limits.

Enclosures:

Table 1: Bulk Electrical Conductivity Monitoring Results, Horizon 1 (40 Feet Above LBFU/Oxide Contact)

Table 2: Bulk Electrical Conductivity Monitoring Results, Horizon 2 (20 Feet Above LBFU/Oxide Contact)

Table 3: Bulk Electrical Conductivity Monitoring Results, Horizon 3 (at LBFU/Oxide Contact)

Figure 1: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 7/5/2023

Figure 2: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 7/10/2023

Figure 3: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 7/20/2023

Figure 4: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 7/27/2023

Figure 5: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 8/9/2023

Figure 6: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 8/15/2023

Figure 7: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 8/23/2023

Figure 8: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 8/29/2023

Figure 9: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 9/5/2023

Figure 10: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 9/16/2023

Figure 11: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 9/22/2023

Figure 12: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 9/29/2023

Attachment A: Box Diagrams for Third Quarter Monitoring Data

Attachment B: Summary Plot of Bulk Electrical Conductivity

TABLES

TABLE 1
BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS
HORIZON 1 (40 FEET ABOVE LBFU/OXIDE CONTACT)
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity (Ω-m)											
				7/5/2023	7/10/2023	7/20/2023	7/27/2023	8/9/2023	8/15/2023	8/23/2023	8/29/2023	9/5/2023	9/16/203	9/22/2023	9/29/2023
B-01-BC-01	B-02-BC-01	O-01	O-02	12.93	12.89	12.90	12.81	12.51	12.98	12.88	12.86	12.93	12.90	13.03	12.64
B-01-BC-01	B-03-BC1-02	O-01	O-03	11.95	11.86	11.89	11.68	11.39	11.96	11.73	11.74	11.87	11.78	12.10	11.66
B-01-BC-01	B-04-BC-01	O-01	O-04	14.14	14.03	14.05	13.84	13.57	14.14	13.84	13.72	14.04	13.92	14.06	13.27
B-01-BC-01	B-05-BC-01	O-01	O-05	12.91	12.85	12.85	12.69	12.73	12.93	12.67	12.69	12.84	12.76	12.70	12.22
B-01-BC-01	B-06-BC-01	O-01	O-06	12.31	12.27	12.26	12.10	11.79	12.30	12.09	12.10	12.23	12.13	12.09	11.67
B-01-BC-01	B-07-BC1-02	O-01	O-07	12.17	12.19	12.20	12.10	11.98	12.23	12.10	12.09	12.15	12.13	12.14	11.85
B-02-BC-01	B-03-BC1-02	O-02	O-03	10.88	10.83	10.85	10.72	10.51	10.91	10.72	10.70	10.82	10.72	10.91	10.75
B-02-BC-01	B-04-BC-01	O-02	O-04	14.81	14.68	14.71	14.50	14.40	14.81	14.49	14.48	14.66	14.45	14.52	14.59
B-02-BC-01	B-05-BC-01	O-02	O-05	14.24	14.17	14.15	13.97	14.01	14.25	13.95	13.95	14.14	13.93	13.83	13.69
B-02-BC-01	B-06-BC-01	O-02	O-06	14.15	14.08	14.05	13.89	13.55	14.16	13.89	13.85	14.03	13.84	13.69	13.64
B-02-BC-01	B-07-BC1-02	O-02	O-07	12.97	12.94	12.93	12.78	12.59	12.99	12.77	12.75	12.90	12.77	12.71	12.53
B-03-BC1-02	B-04-BC-01	O-03	O-04	13.13	13.01	13.04	12.87	12.83	13.11	12.90	12.88	13.06	12.96	12.90	12.88
B-03-BC1-02	B-05-BC-01	O-03	O-05	13.58	13.47	13.48	13.33	12.92	13.58	13.35	13.33	13.50	13.38	13.25	13.14
B-03-BC1-02	B-06-BC-01	O-03	O-06	14.79	14.61	14.67	14.49	14.13	14.79	14.46	14.42	14.69	14.52	14.28	14.42
B-03-BC1-02	B-07-BC1-02	O-03	O-07	14.05	13.91	14.46	13.78	13.26	14.05	13.73	13.74	13.92	13.79	13.70	13.54
B-04-BC-01	B-05-BC-01	O-04	O-05	10.97	10.94	10.95	10.86	10.76	10.99	10.92	10.88	10.95	10.88	10.93	10.87
B-04-BC-01	B-06-BC-01	O-04	O-06	12.84	12.78	12.73	12.64	12.41	12.85	12.71	12.63	12.76	12.65	12.70	12.60
B-04-BC-01	B-07-BC1-02	O-04	O-07	13.52	13.40	13.45	13.29	12.81	13.51	13.32	13.26	13.43	13.29	13.40	13.07
B-05-BC-01	B-06-BC-01	O-05	O-06	10.50	10.43	10.45	10.39	10.21	10.50	10.40	10.37	10.45	10.41	10.49	10.34
B-05-BC-01	B-07-BC1-02	O-05	O-07	11.38	11.30	11.31	11.20	11.47	11.37	11.26	11.18	11.31	11.22	11.43	11.09
B-06-BC-01	B-07-BC1-02	O-06	O-07	10.28	10.25	10.25	10.18	10.33	10.30	10.22	10.19	10.25	10.21	10.31	10.17

Notes

Ω-m = ohm-meters

LBFU = Lower Basin Fill Unit

Oxide = Bedrock Oxide Unit

Horizon 1 Alert Level = 9.67 Ω-m

TABLE 2
BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS
HORIZON 2 (20 FEET ABOVE LBFU/OXIDE CONTACT)
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity (Ω-m)											
				7/5/2023	7/10/2023	7/20/2023	7/27/2023	8/9/2023	8/15/2023	8/23/2023	8/29/2023	9/5/2023	9/16/203	9/22/2023	9/29/2023
B-01-BC-02	B-02-BC-02	O-01	O-02	14.68	14.66	14.67	14.60	14.54	14.72	14.60	14.60	14.64	14.63	14.78	14.30
B-01-BC-02	B-03-BC1-04	O-01	O-03	12.03	12.00	12.00	11.86	11.52	12.06	11.84	11.84	11.97	11.89	12.20	11.72
B-01-BC-02	B-04-BC-02	O-01	O-04	14.03	13.92	13.98	13.77	13.52	14.05	13.78	13.79	13.94	13.83	13.93	13.15
B-01-BC-02	B-05-BC-02	O-01	O-05	12.78	12.72	12.74	12.58	12.30	12.80	12.57	12.58	12.71	12.59	12.57	12.02
B-01-BC-02	B-06-BC-02	O-01	O-06	12.17	12.10	12.15	12.01	11.79	12.21	11.98	12.00	12.11	12.02	11.95	11.53
B-01-BC-02	B-07-BC1-04	O-01	O-07	12.23	12.17	12.19	12.10	12.02	12.23	12.10	12.10	12.18	12.12	12.13	11.81
B-02-BC-02	B-03-BC1-04	O-02	O-03	11.66	11.58	11.55	11.44	11.24	11.61	11.44	11.40	11.54	11.44	11.63	11.22
B-02-BC-02	B-04-BC-02	O-02	O-04	14.99	14.81	14.77	14.57	14.41	14.87	14.56	14.57	14.77	14.57	14.65	14.13
B-02-BC-02	B-05-BC-02	O-02	O-05	14.23	14.14	14.17	13.96	13.68	14.25	13.98	13.98	14.16	14.00	13.86	13.33
B-02-BC-02	B-06-BC-02	O-02	O-06	14.17	14.09	14.10	13.85	13.99	14.18	13.90	13.89	14.06	13.92	13.78	13.21
B-02-BC-02	B-07-BC1-04	O-02	O-07	12.98	12.92	12.95	12.76	12.67	13.01	12.80	12.79	12.92	12.80	12.73	12.23
B-03-BC1-04	B-04-BC-02	O-03	O-04	13.14	13.04	13.06	12.91	12.82	13.11	12.91	12.88	13.05	12.96	12.93	12.82
B-03-BC1-04	B-05-BC-02	O-03	O-05	13.48	13.36	13.39	13.24	13.32	13.46	13.26	13.23	13.41	13.28	13.09	13.02
B-03-BC1-04	B-06-BC-02	O-03	O-06	14.69	14.55	14.58	14.38	14.51	14.68	14.40	14.39	14.59	14.41	14.18	14.24
B-03-BC1-04	B-07-BC1-04	O-03	O-07	13.83	13.70	13.76	13.56	13.33	13.82	13.58	13.56	13.66	13.59	13.42	13.28
B-04-BC-02	B-05-BC-02	O-04	O-05	11.31	11.27	11.27	11.20	11.29	11.29	11.21	11.21	11.27	11.22	11.25	11.17
B-04-BC-02	B-06-BC-02	O-04	O-06	12.80	12.74	12.75	12.64	12.38	12.82	12.62	12.61	12.77	12.66	12.67	12.58
B-04-BC-02	B-07-BC1-04	O-04	O-07	13.32	13.20	13.22	13.06	12.87	13.30	13.18	13.06	13.23	13.09	13.17	12.95
B-05-BC-02	B-06-BC-02	O-05	O-06	10.69	10.66	10.67	10.60	10.44	10.73	10.62	10.58	10.68	10.61	10.69	10.52
B-05-BC-02	B-07-BC1-04	O-05	O-07	11.19	11.12	11.15	11.03	10.97	11.20	11.08	11.01	11.17	11.05	11.21	10.91
B-06-BC-02	B-07-BC1-04	O-06	O-07	11.02	10.99	11.00	10.96	10.91	11.04	10.95	10.93	10.99	10.98	11.03	10.90

Notes

Ω-m = ohm-meters

LBFU = Lower Basin Fill Unit

Oxide = Bedrock Oxide Unit

Horizon 2 Alert Level = 9.89 Ω-m

TABLE 3
BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS
HORIZON 3 (AT LBFU/OXIDE CONTACT)
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity (Ω-m)											
				7/5/2023	7/10/2023	7/20/2023	7/27/2023	8/9/2023	8/15/2023	8/23/2023	8/29/2023	9/5/2023	9/16/2023	9/22/2023	9/29/2023
B-01-BC-03	B-02-BC-03	O-01	O-02	15.57	15.44	15.54	15.51	15.38	15.57	15.50	15.50	13.76	15.49	15.67	15.05
B-01-BC-03	B-03-BC2-02	O-01	O-03	12.17	11.86	12.13	12.00	11.73	12.21	11.96	11.89	12.10	12.03	12.33	11.81
B-01-BC-03	B-04-BC-03	O-01	O-04	13.95	13.49	13.91	13.71	13.13	13.96	13.68	13.71	13.83	13.74	13.87	13.03
B-01-BC-03	B-05-BC-03	O-01	O-05	12.68	12.31	12.66	12.49	12.26	12.69	12.46	12.50	12.59	12.51	12.47	11.84
B-01-BC-03	B-06-BC-03	O-01	O-06	12.01	11.74	12.02	11.87	11.53	12.08	11.84	11.78	11.98	11.91	11.84	11.36
B-01-BC-03	B-07-BC2-02	O-01	O-07	12.45	12.29	12.42	12.38	12.11	12.51	12.37	12.38	12.41	12.41	12.41	12.00
B-02-BC-03	B-03-BC2-02	O-02	O-03	11.73	11.47	11.72	11.59	11.46	11.76	11.59	11.46	-0.01	11.61	11.77	11.26
B-02-BC-03	B-04-BC-03	O-02	O-04	14.70	14.19	14.63	14.42	13.95	14.70	14.41	14.35	14.57	14.44	14.49	13.70
B-02-BC-03	B-05-BC-03	O-02	O-05	14.08	13.63	14.02	13.85	13.61	14.08	13.85	13.83	-2.03	13.85	13.69	12.95
B-02-BC-03	B-06-BC-03	O-02	O-06	14.03	13.59	13.96	13.79	13.47	14.04	13.78	13.78	13.94	13.80	13.62	12.97
B-02-BC-03	B-07-BC2-02	O-02	O-07	13.09	12.69	13.06	12.88	12.48	13.11	12.92	12.91	2.87	12.90	12.81	12.30
B-03-BC2-02	B-04-BC-03	O-03	O-04	13.10	12.71	13.03	12.86	12.56	13.10	12.82	12.75	13.03	12.88	12.91	12.77
B-03-BC2-02	B-05-BC-03	O-03	O-05	13.62	13.12	13.53	13.36	13.10	13.61	13.22	13.26	13.54	13.42	13.27	13.18
B-03-BC2-02	B-06-BC-03	O-03	O-06	14.97	14.47	14.87	14.67	14.36	14.99	14.48	14.54	14.90	14.79	14.55	14.57
B-03-BC2-02	B-07-BC2-02	O-03	O-07	14.05	13.57	13.97	13.78	13.47	14.06	13.59	13.59	13.97	13.86	13.70	13.54
B-04-BC-03	B-05-BC-03	O-04	O-05	12.03	11.87	11.99	11.93	11.86	12.01	11.91	11.90	11.99	11.95	11.94	11.92
B-04-BC-03	B-06-BC-03	O-04	O-06	12.94	12.55	12.87	12.74	12.77	12.93	12.75	12.72	12.84	12.78	12.79	12.66
B-04-BC-03	B-07-BC2-02	O-04	O-07	13.16	12.70	13.10	12.93	12.64	13.16	12.93	12.92	13.09	12.96	12.98	12.76
B-05-BC-03	B-06-BC-03	O-05	O-06	10.97	10.79	10.96	10.89	10.90	10.99	10.92	10.89	10.96	10.91	10.95	10.82
B-05-BC-03	B-07-BC2-02	O-05	O-07	11.07	10.75	10.99	10.89	10.63	11.05	10.93	10.88	11.00	10.83	11.06	10.78
B-06-BC-03	B-07-BC2-02	O-06	O-07	11.27	11.12	11.22	11.17	11.06	11.31	11.17	11.18	11.21	11.17	11.27	11.15

Notes

Ω-m = ohm-meters

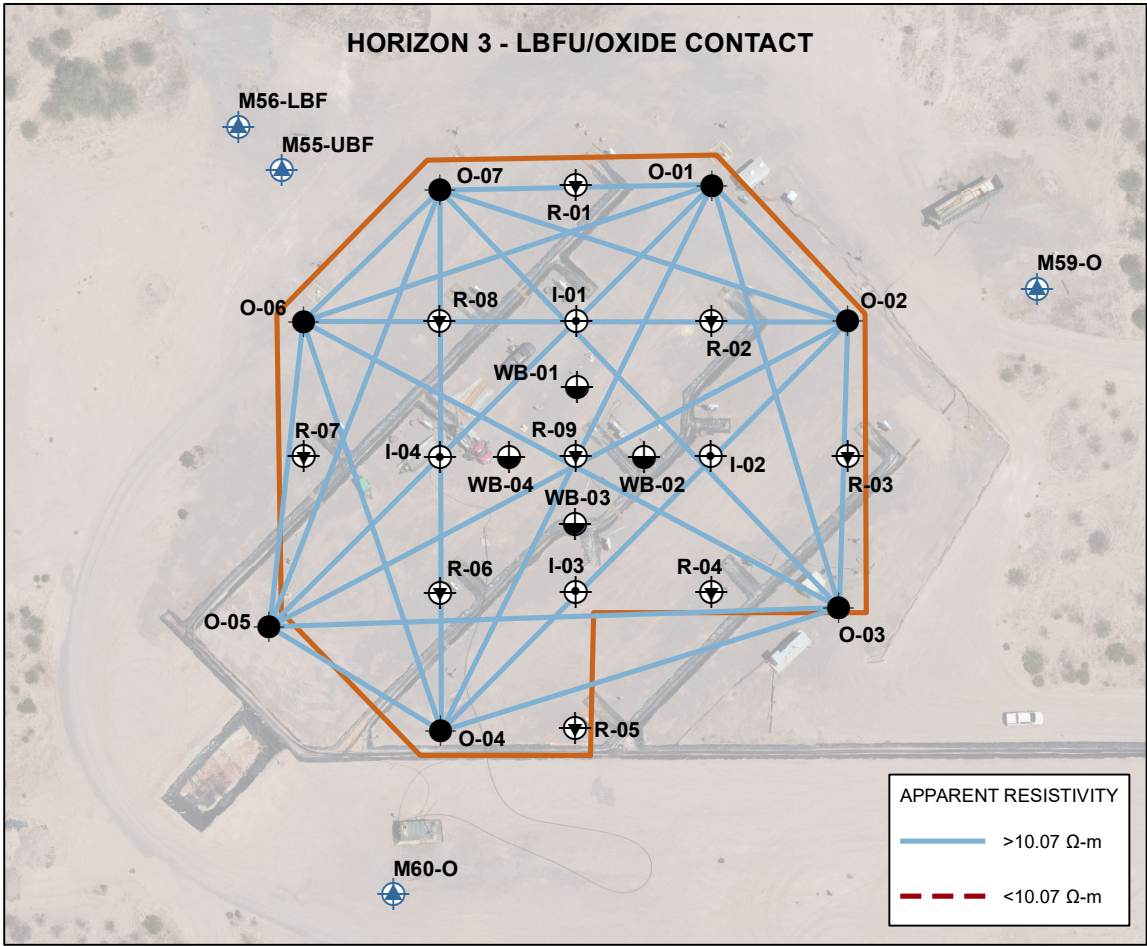
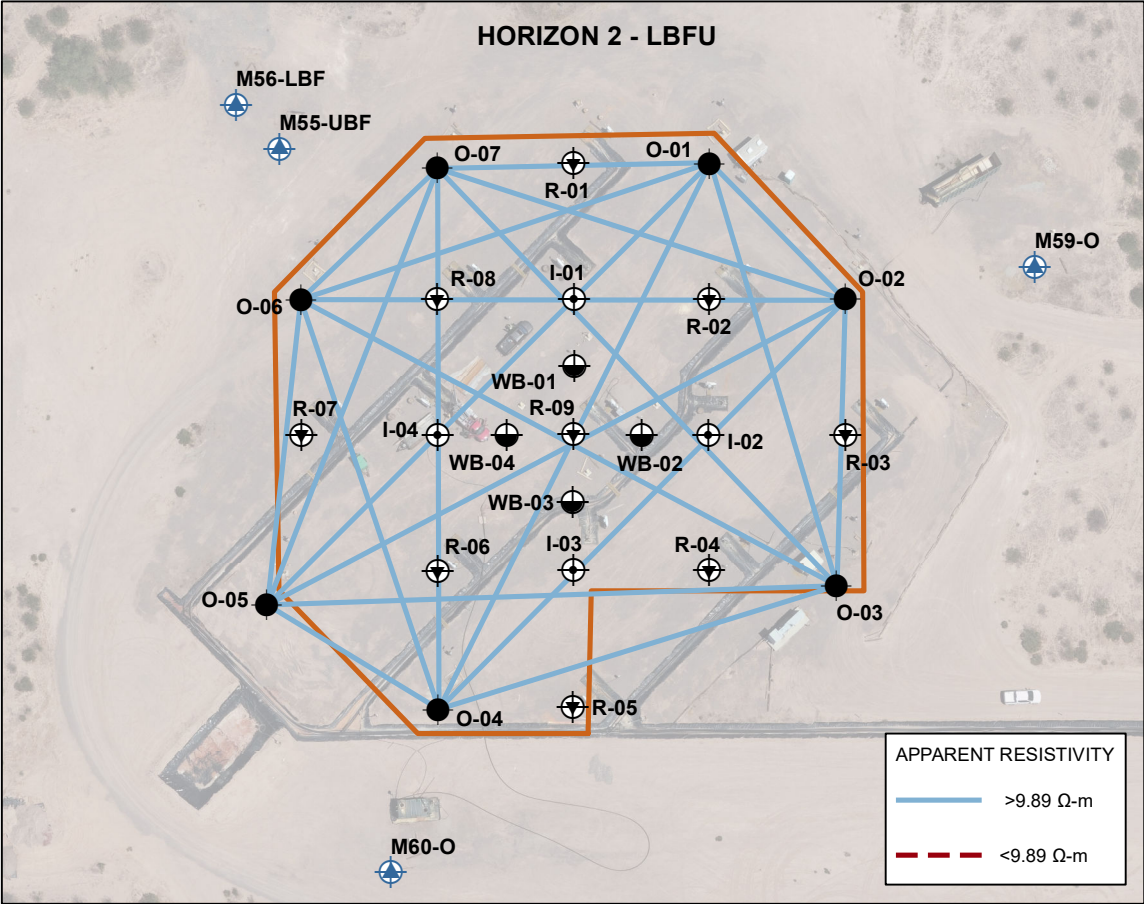
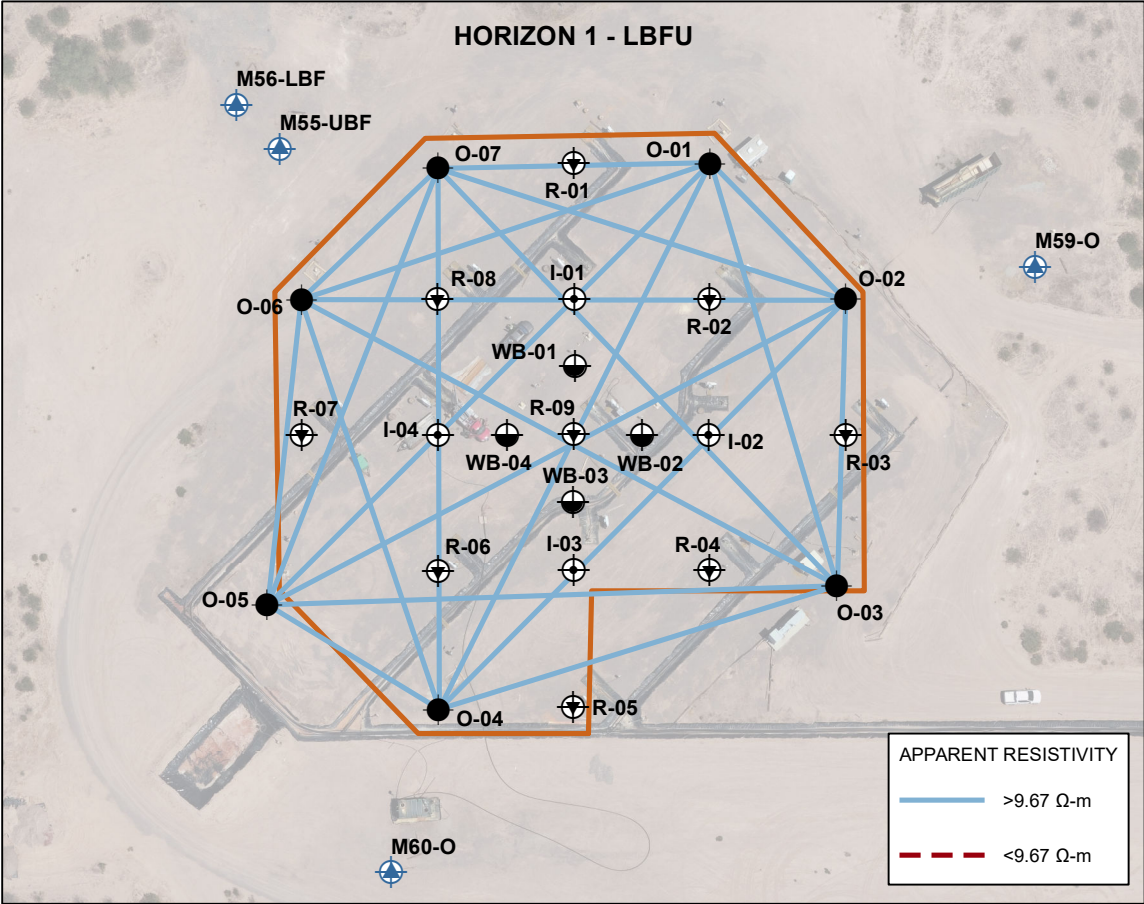
LBFU = Lower Basin Fill Unit

Oxide = Bedrock Oxide Unit

Horizon 3 Alert Level = 10.07 Ω-m

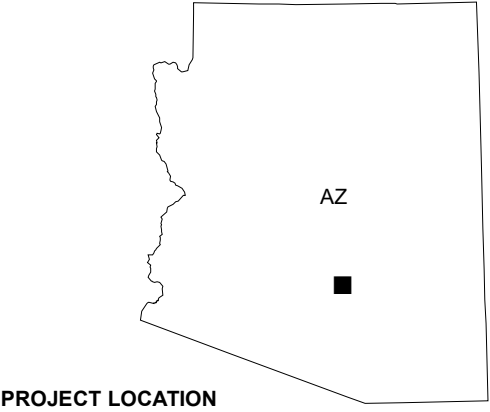
Below horizon's alert level

FIGURES

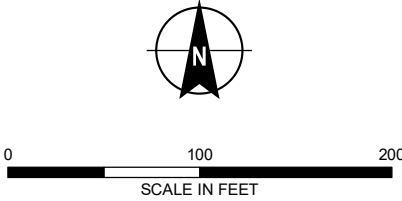


LEGEND

- OBSERVATION
- INJECTION
- RECOVERY
- WESTBAY
- SUPPLEMENTAL MW
- PRODUCTION TEST FACILITY (PTF) WELLFIELD



- NOTES**
- ALL LOCATIONS AND DIMENSIONS APPROXIMATE.
 - (Ω -m) = OHM - METERS
 - AREIAL IMAGERY SOURCE: UNMANNED AERIAL VEHICLE, FLORENCE COPPER, 7 FEBRUARY 2022



**HALEY
ALDRICH**

FLORENCE COPPER LLC
FLORENCE, ARIZONA

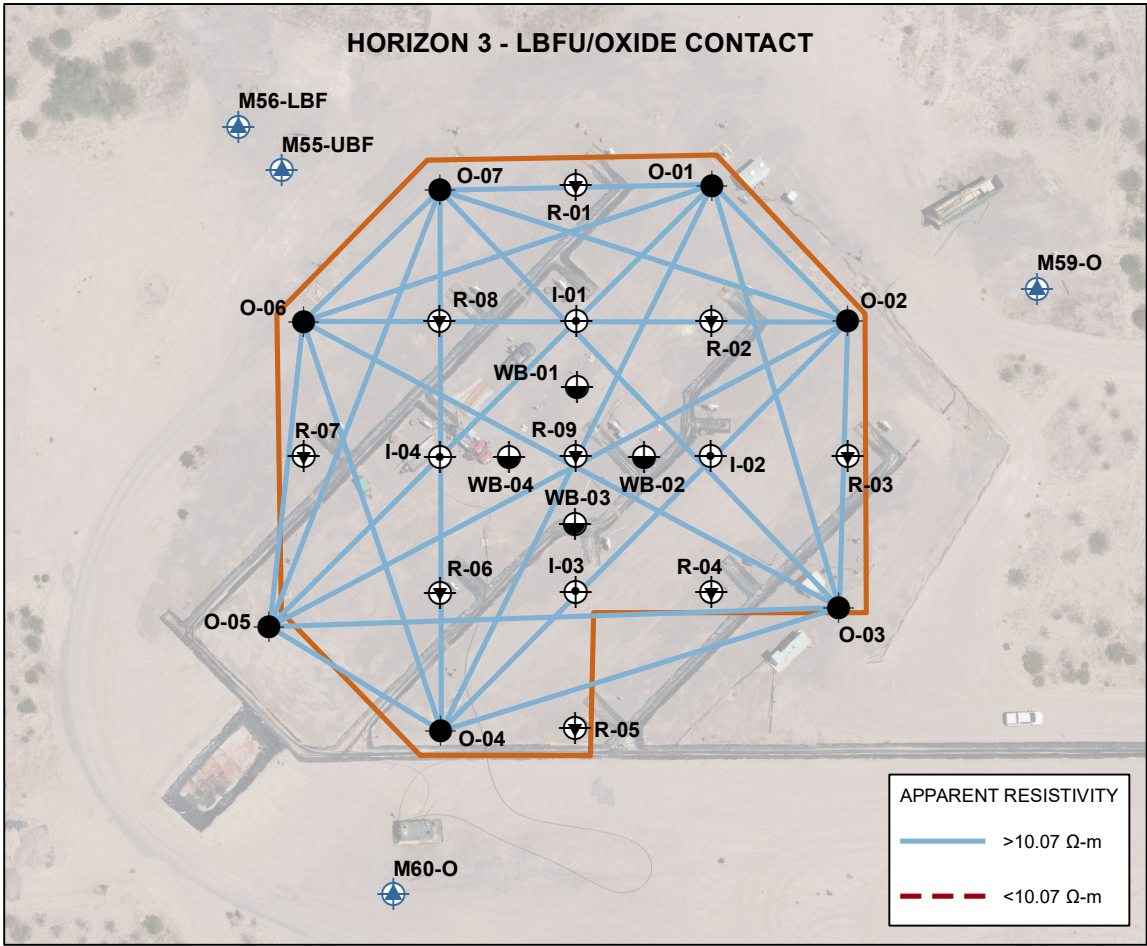
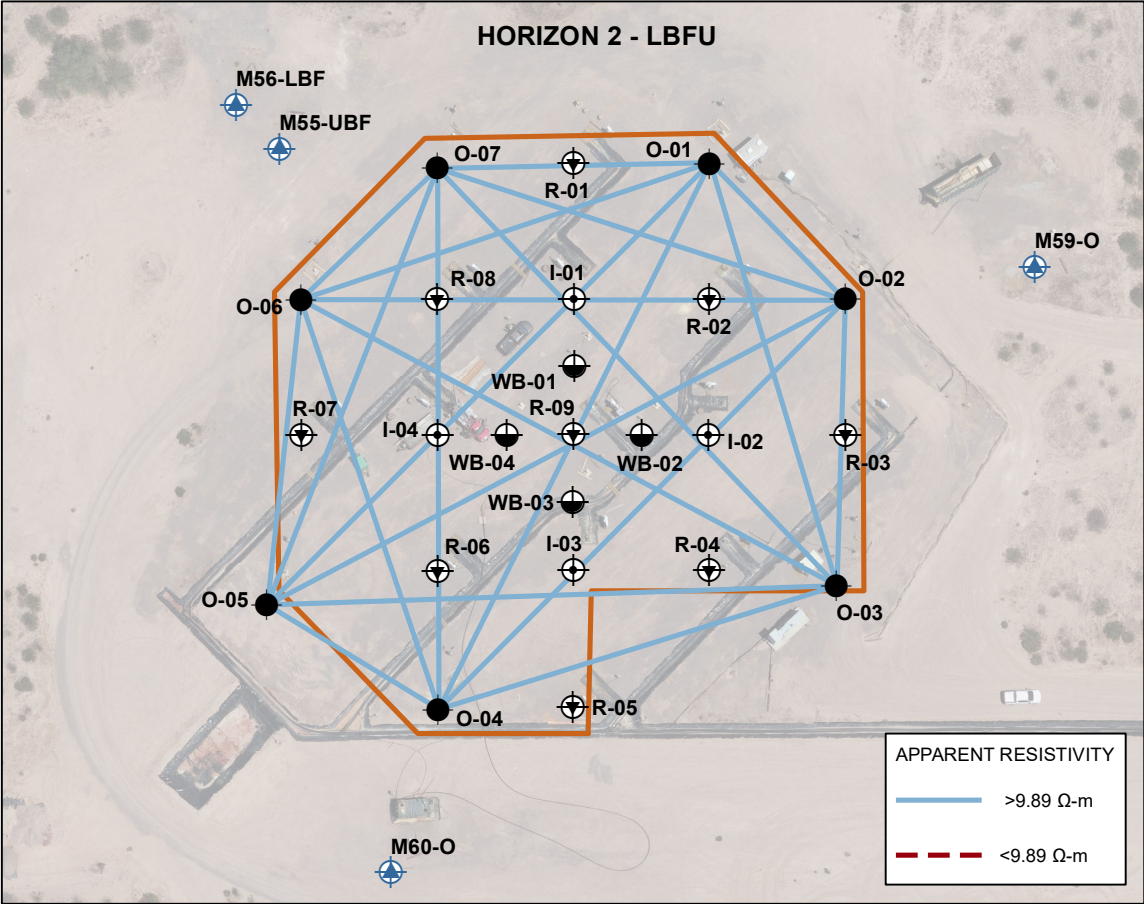
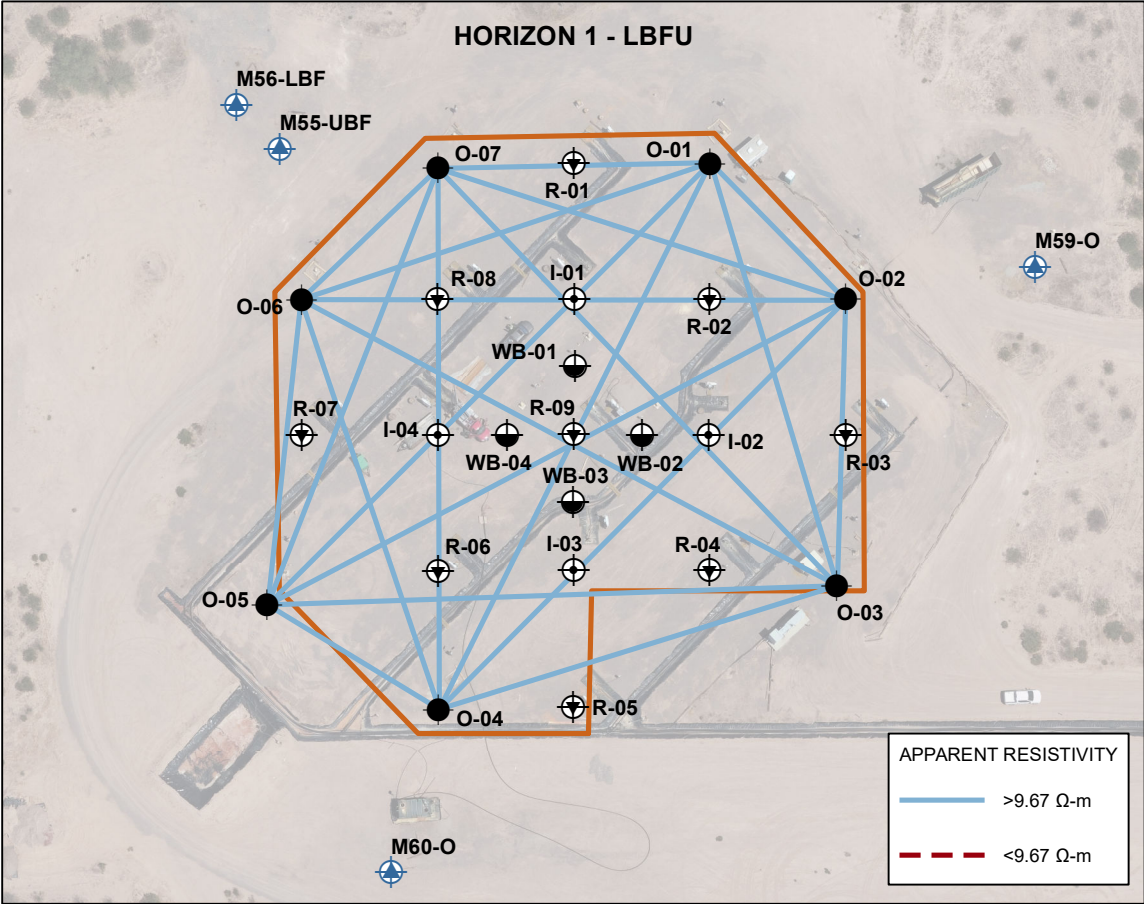
APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 7/5/2023
PRODUCTION TEST FACILITY

**FLORENCE
COPPER**

OCTOBER 2023

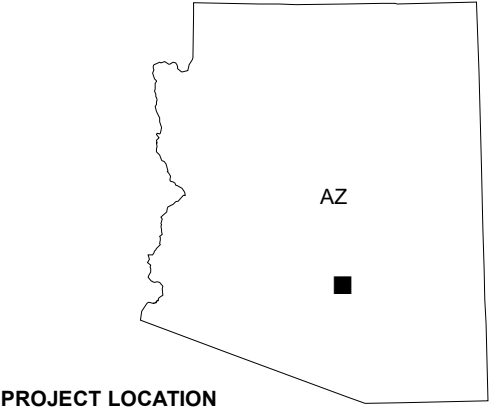
FIGURE 1

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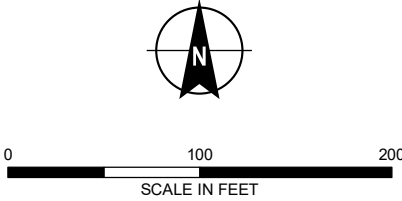


LEGEND

- OBSERVATION
- INJECTION
- RECOVERY
- WESTBAY
- SUPPLEMENTAL MW
- PRODUCTION TEST FACILITY (PTF) WELLFIELD



- NOTES**
- ALL LOCATIONS AND DIMENSIONS APPROXIMATE.
 - (Ω -m) = OHM - METERS
 - AREIAL IMAGERY SOURCE: UNMANNED AERIAL VEHICLE, FLORENCE COPPER, 7 FEBRUARY 2022



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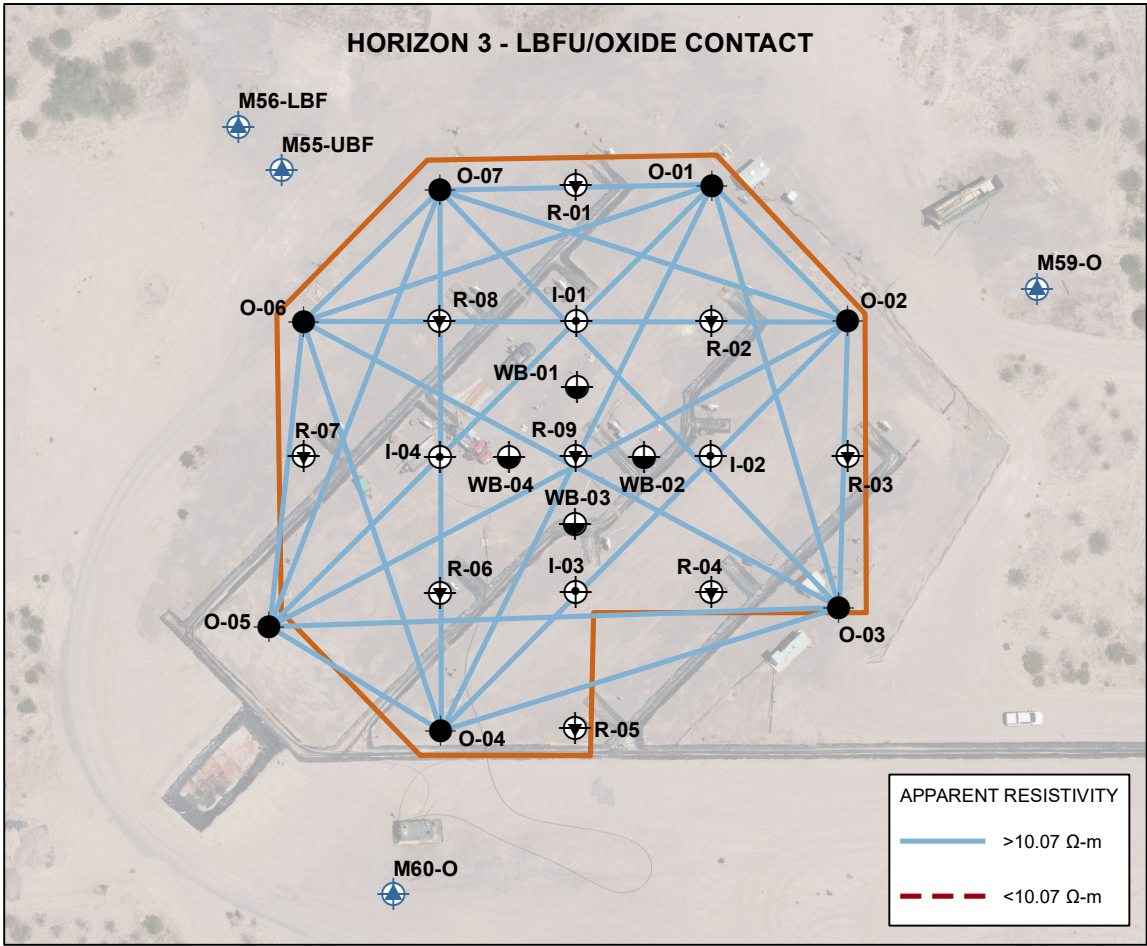
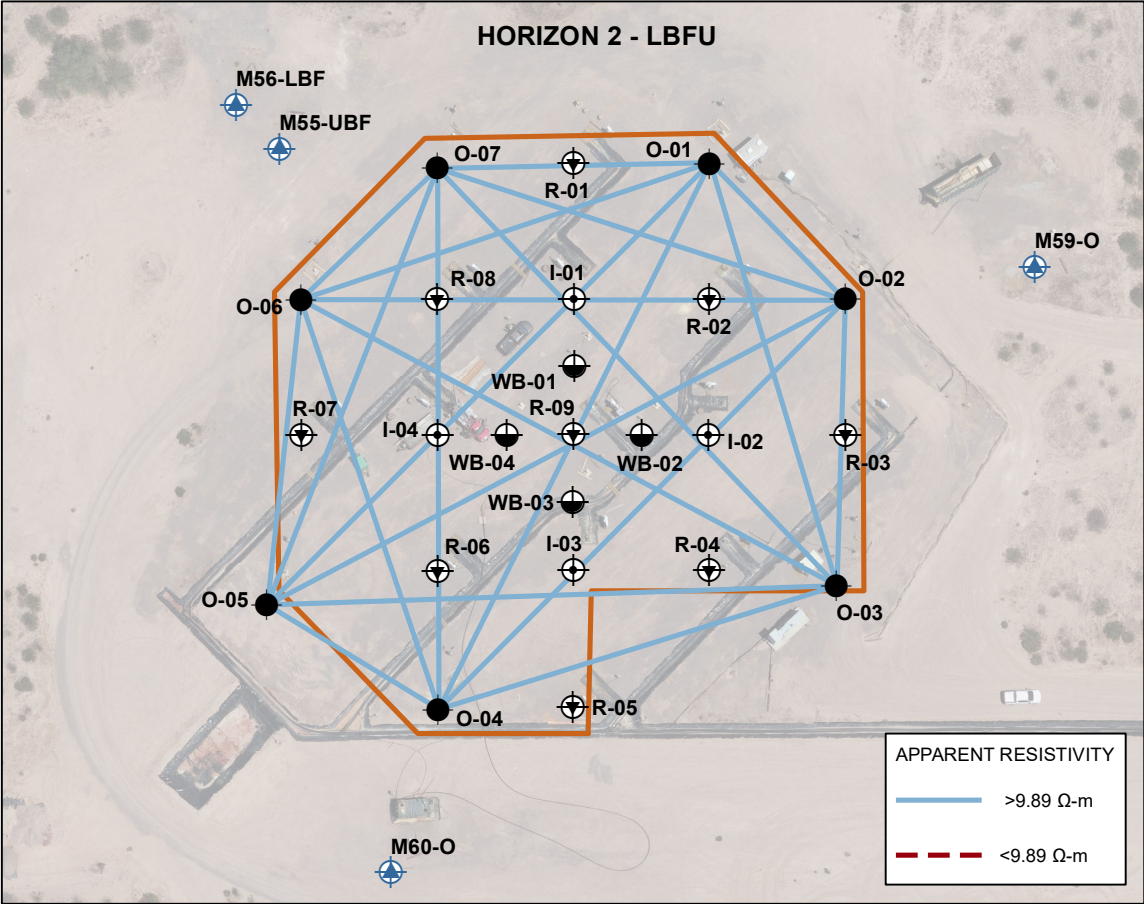
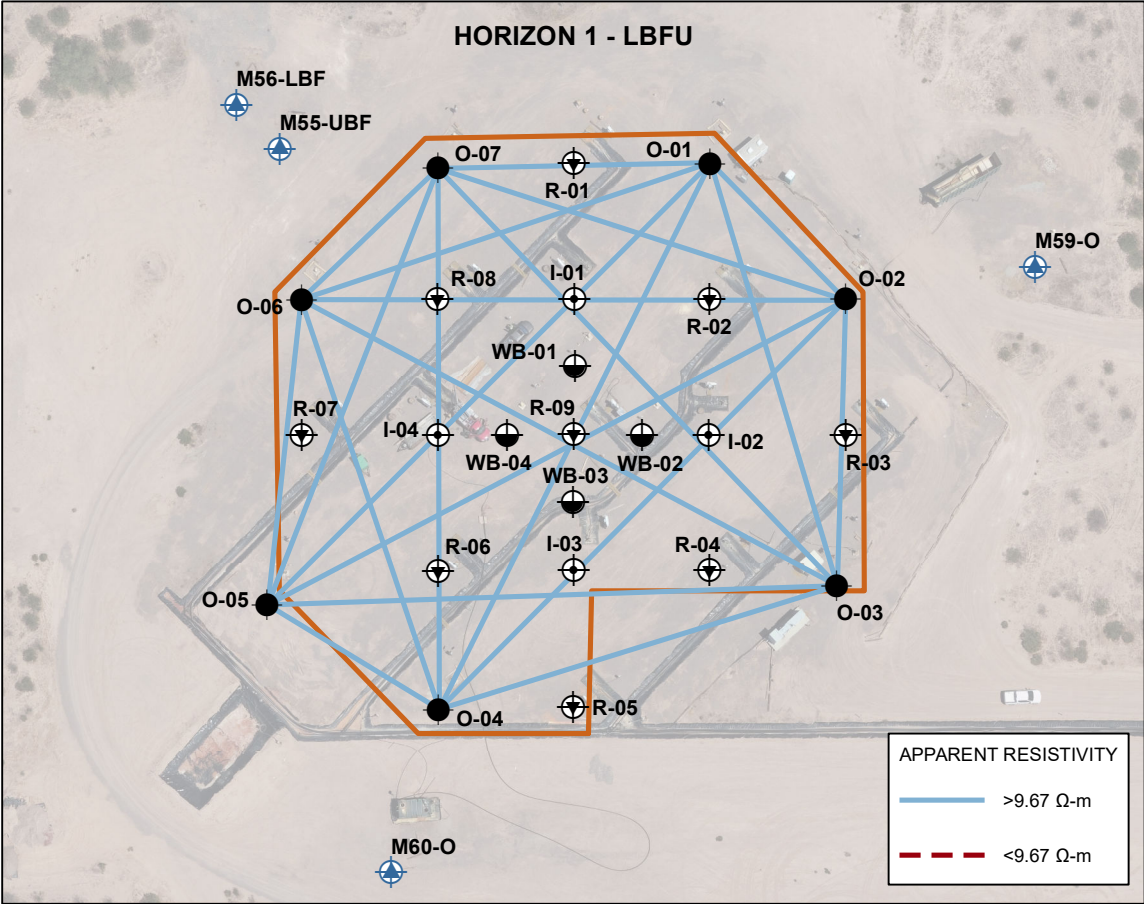
APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 7/10/2023
PRODUCTION TEST FACILITY

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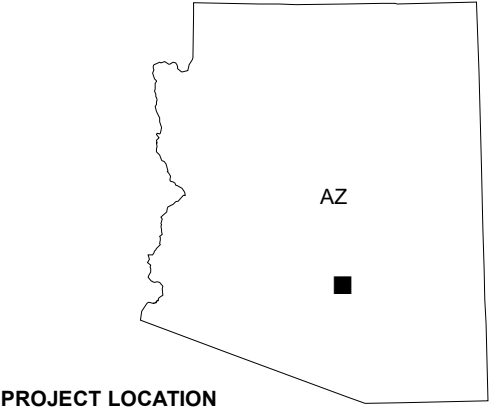
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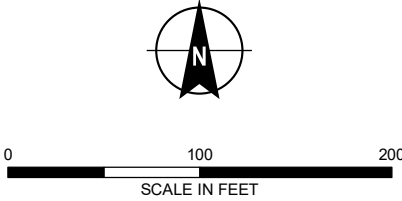


LEGEND

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- PRODUCTION TEST FACILITY (PTF) WELLFIELD



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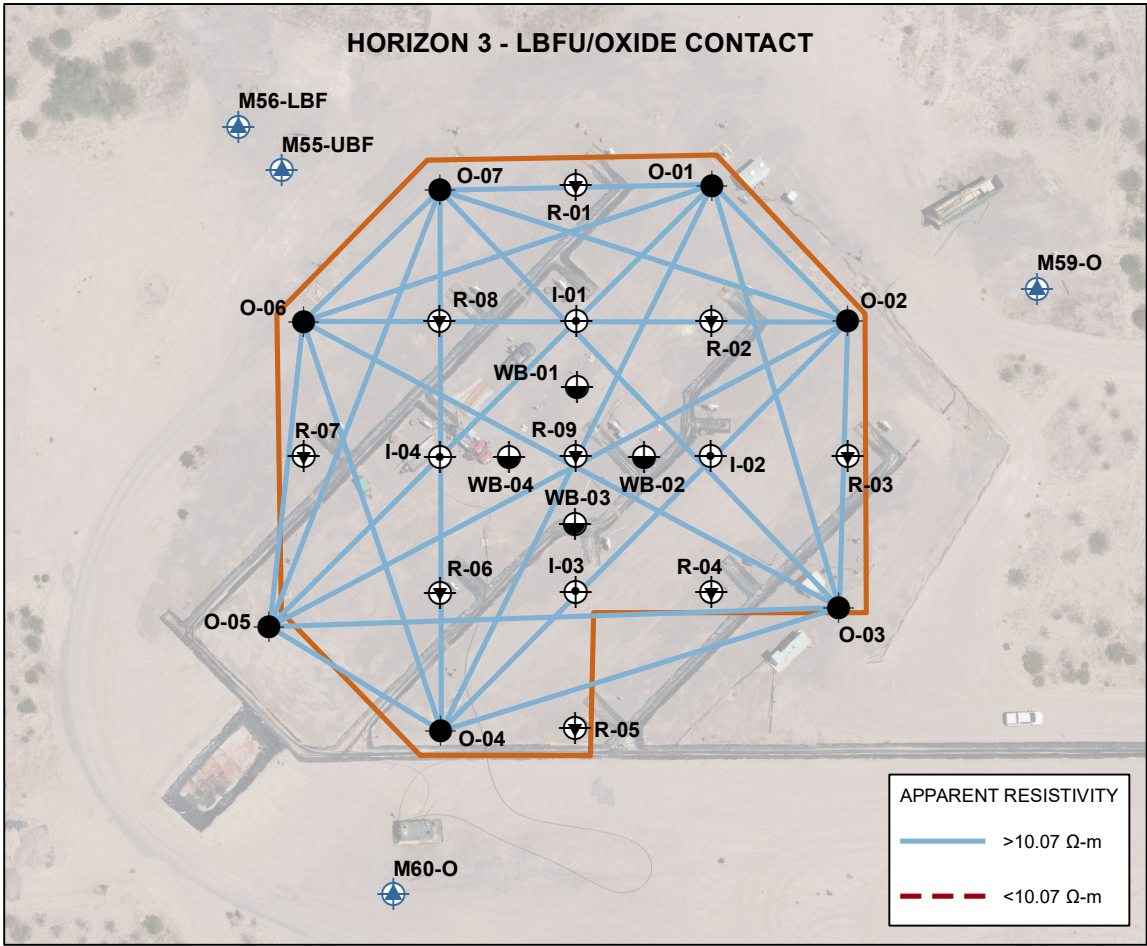
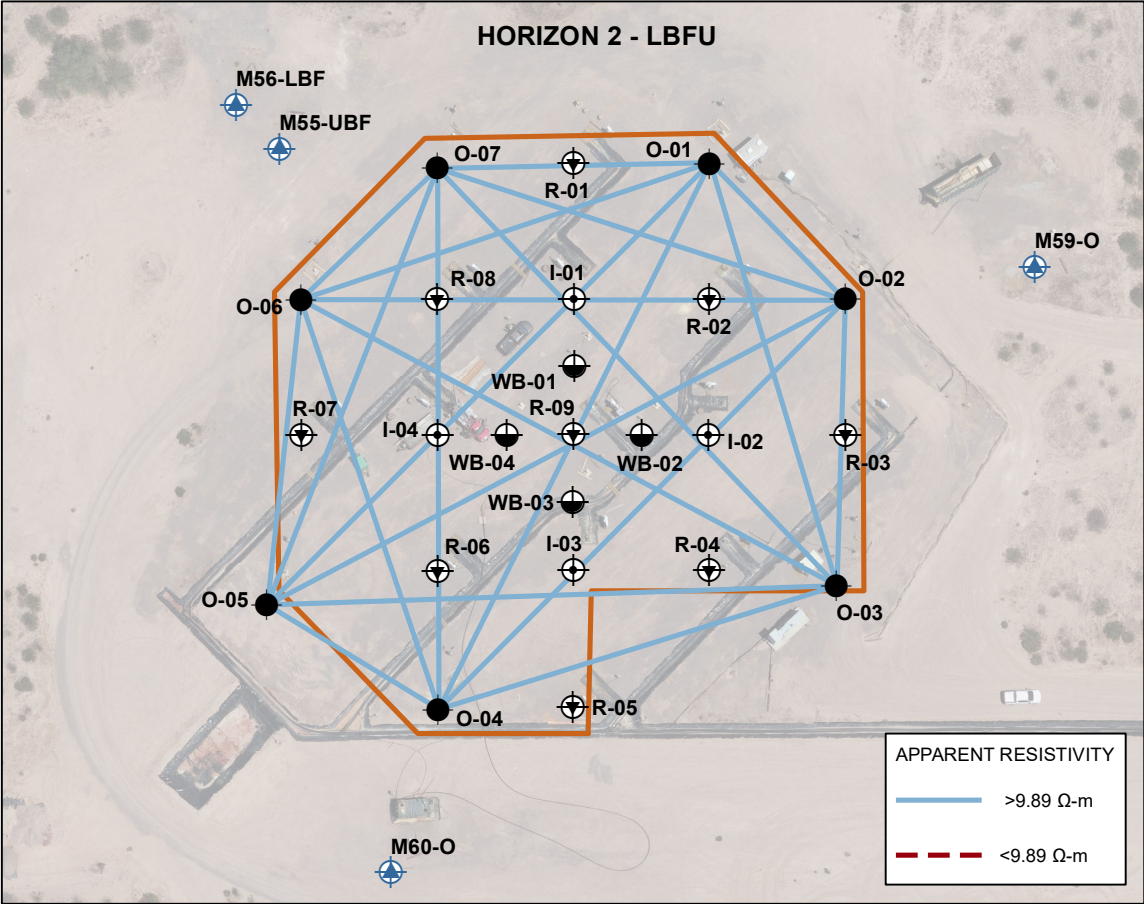
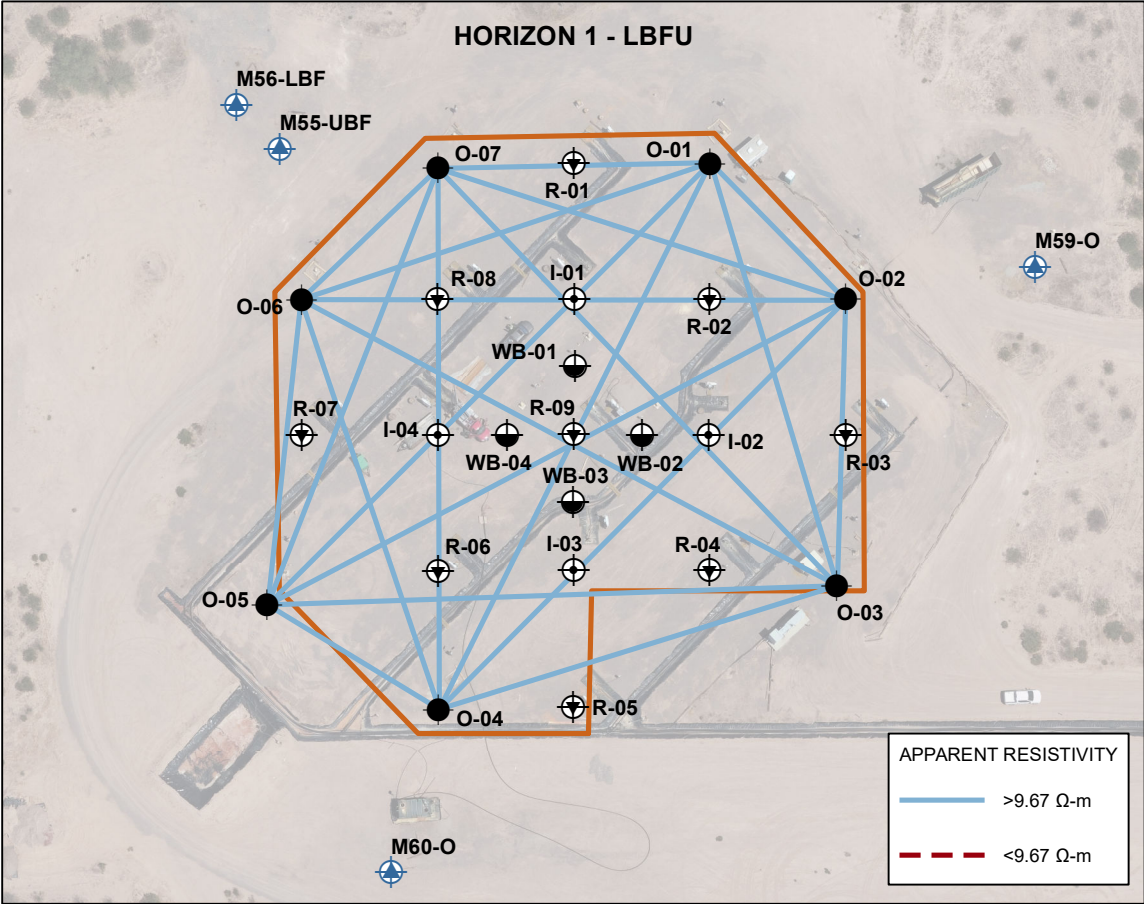
APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 7/20/2023
PRODUCTION TEST FACILITY

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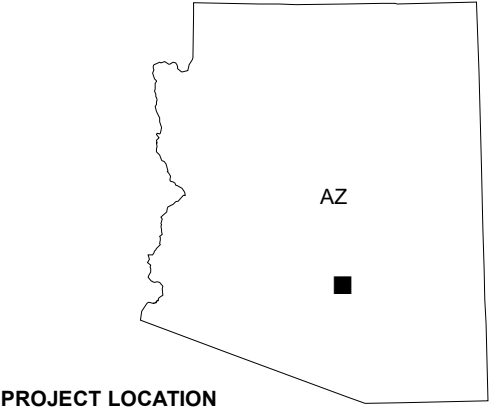
FIGURE 3

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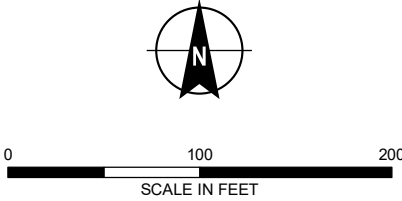


LEGEND

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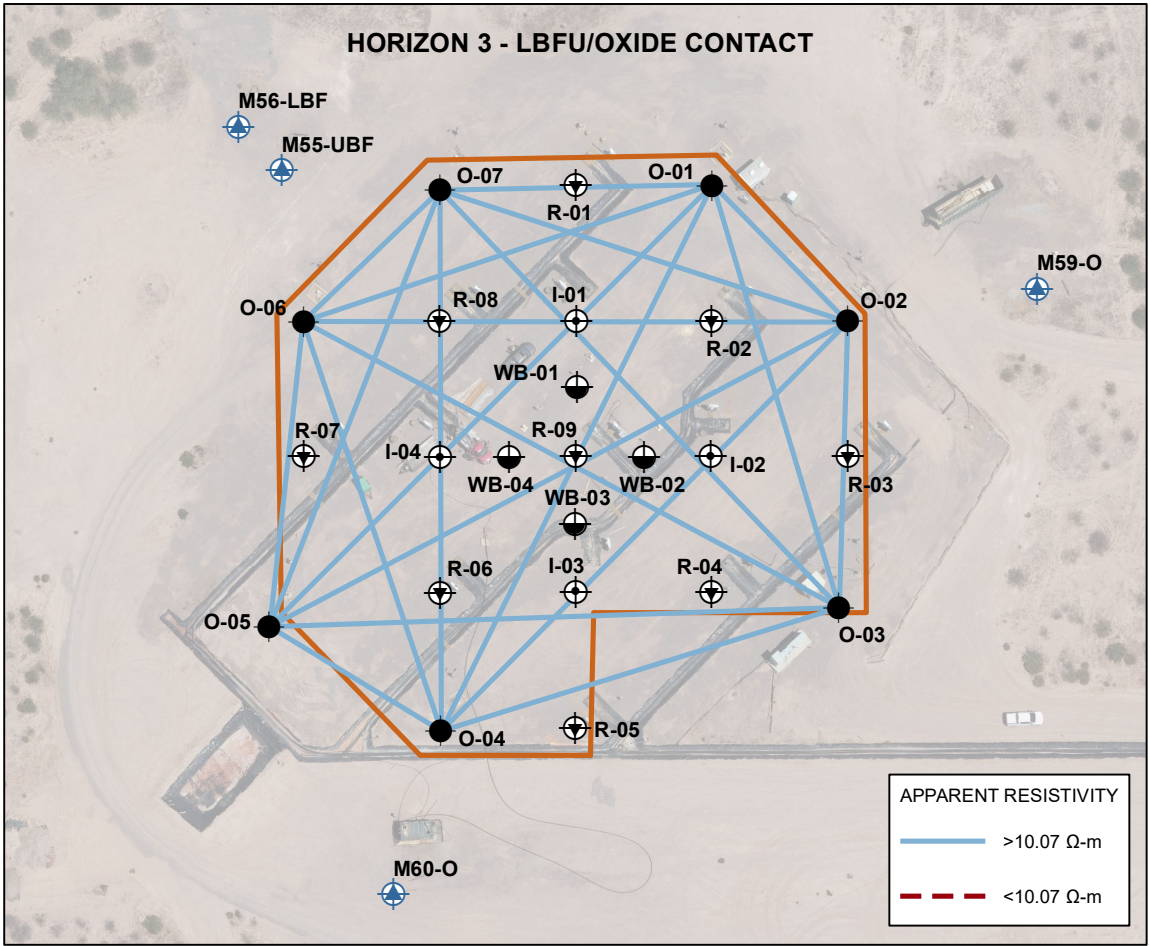
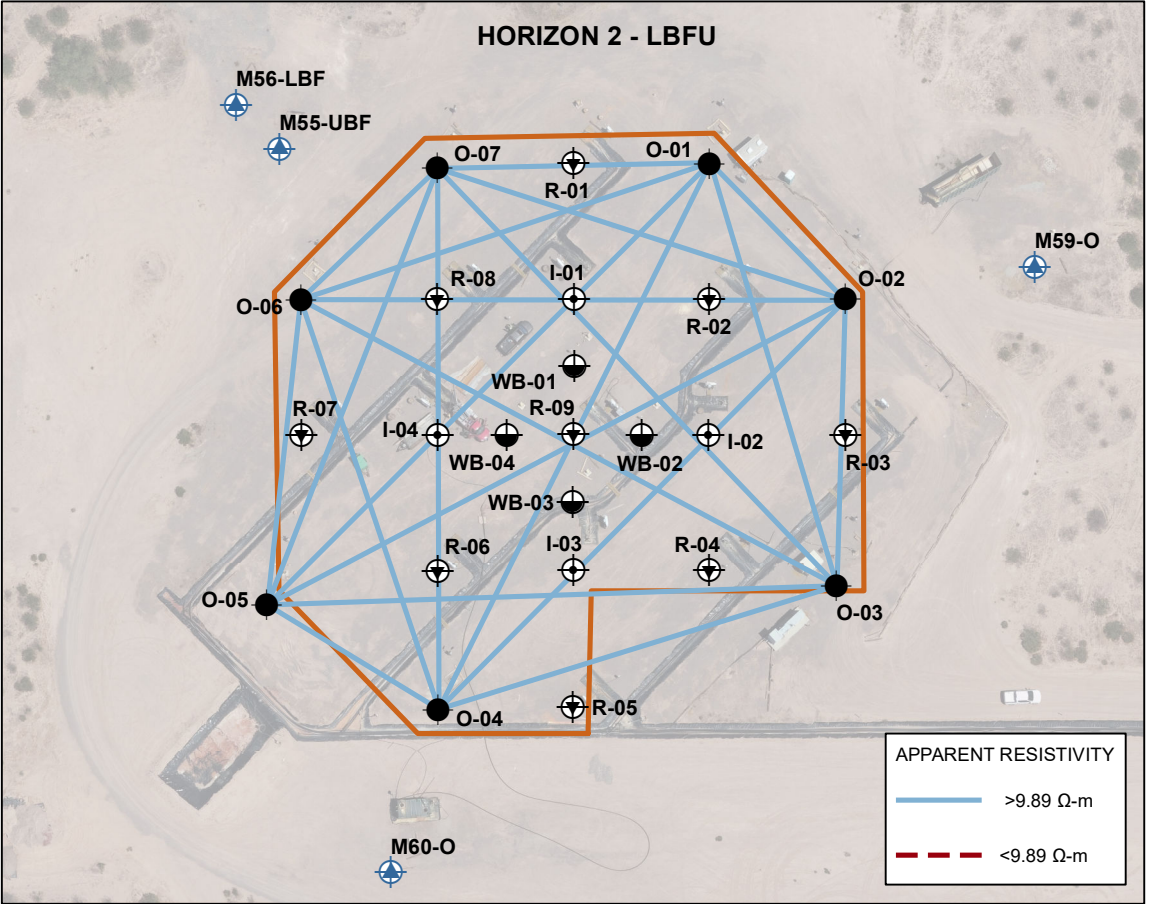
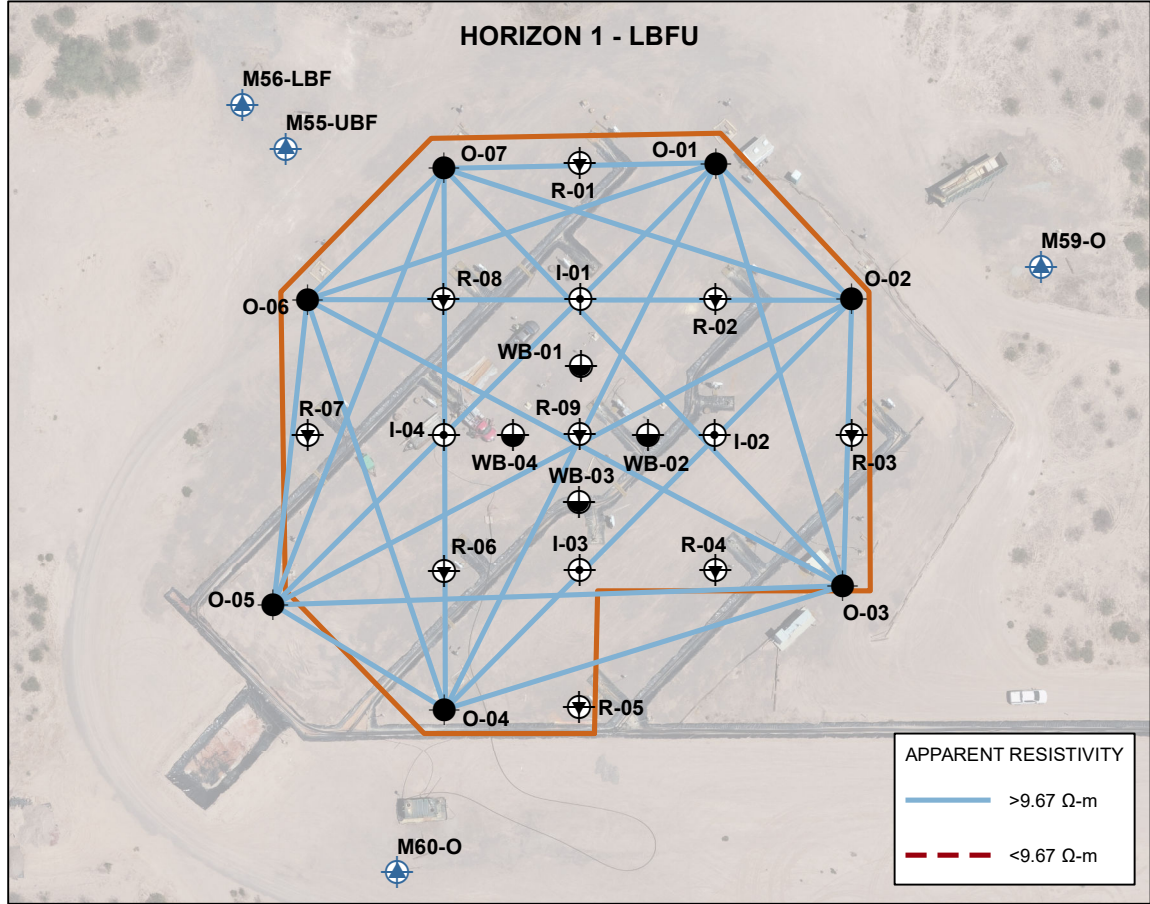
APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 7/27/2023
PRODUCTION TEST FACILITY

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OCTOBER 2023

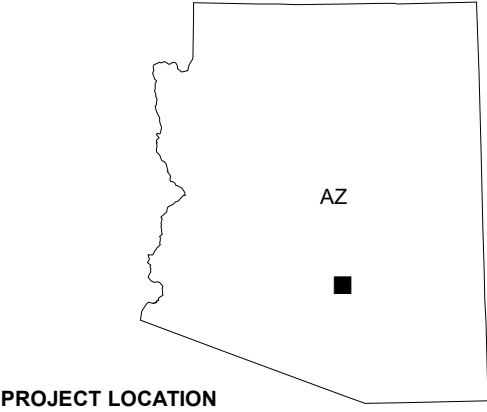
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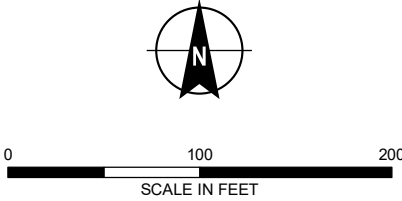


LEGEND

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- RECOVERY
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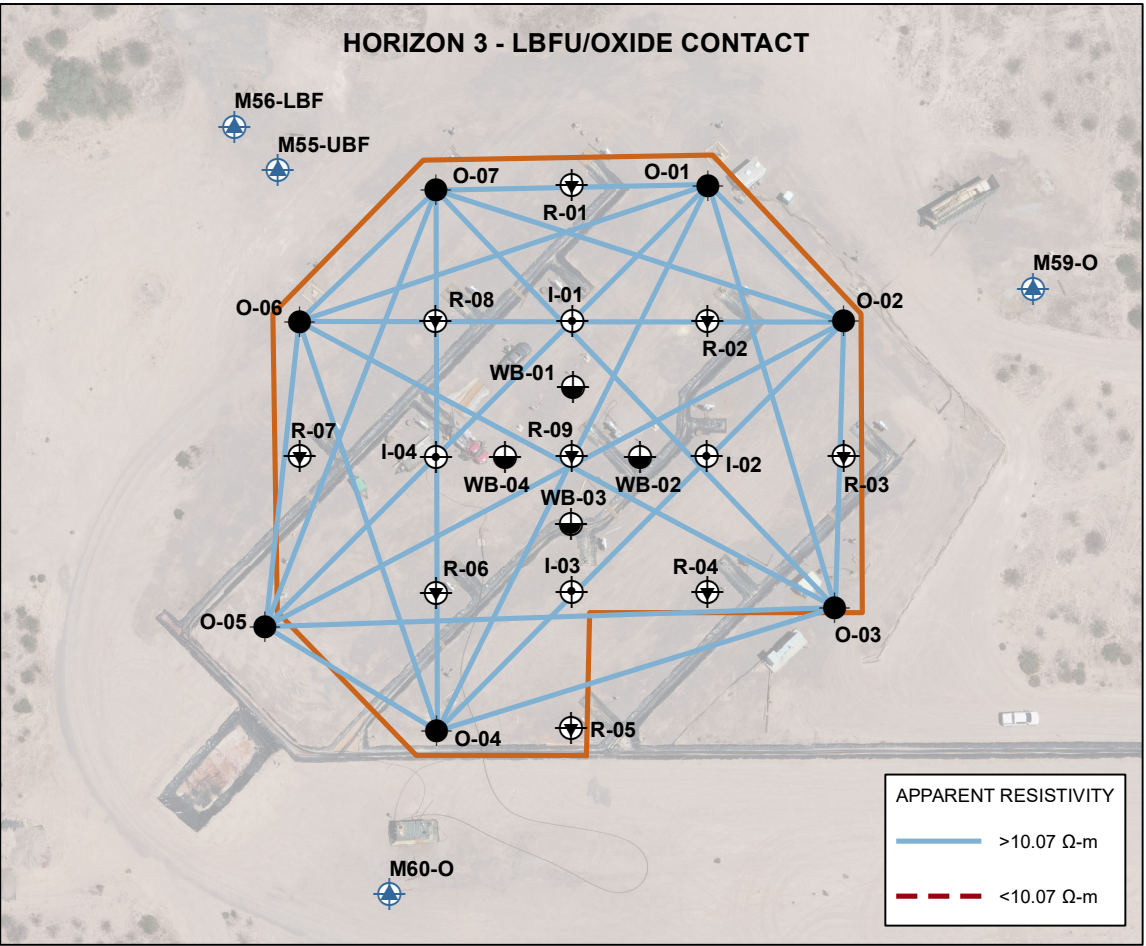
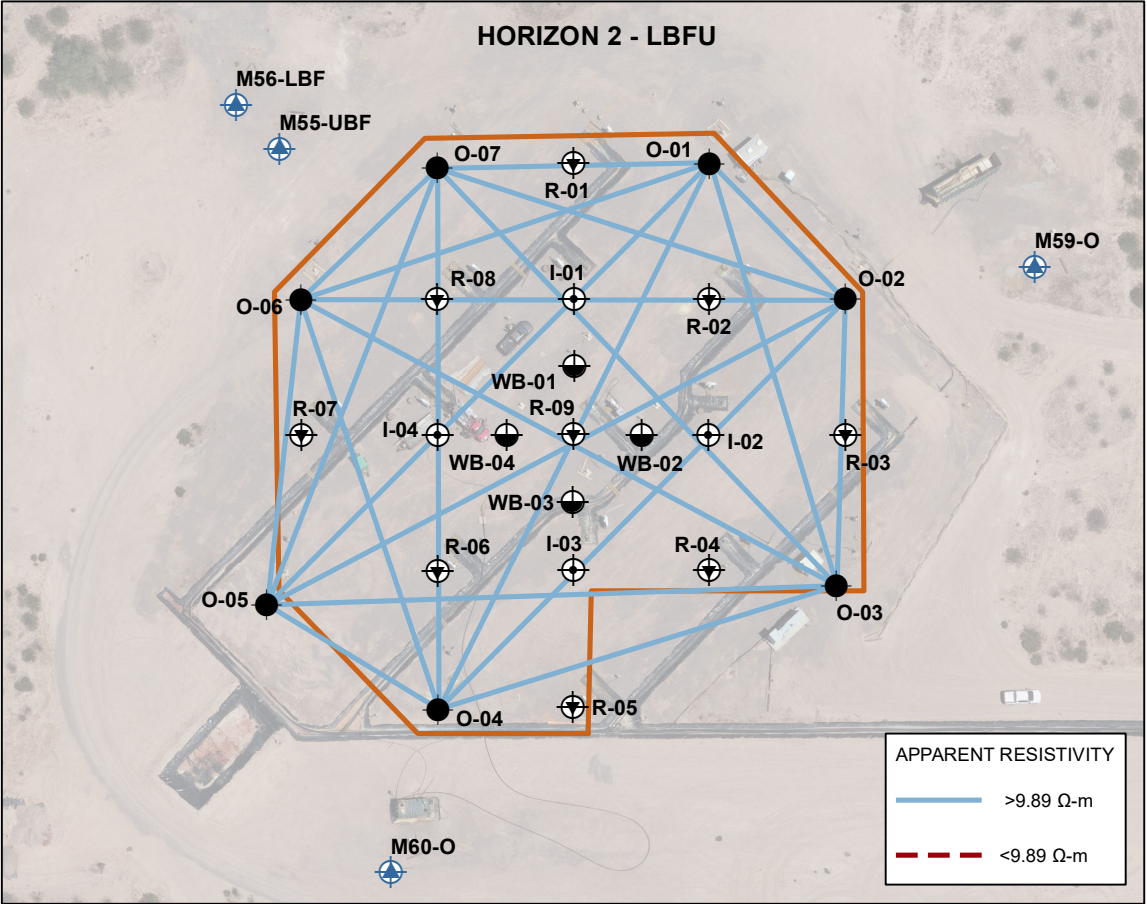
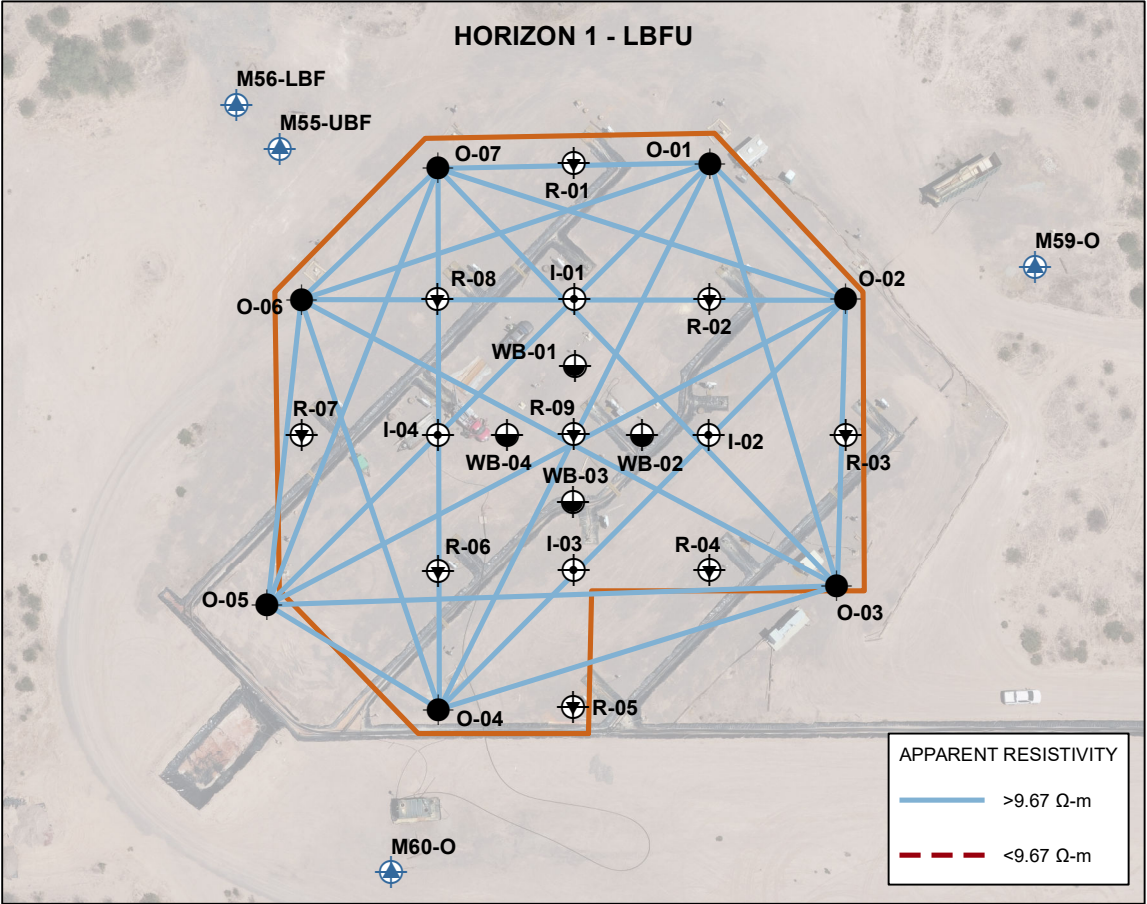
APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 8/9/2023
PRODUCTION TEST FACILITY

**FLORENCE
COPPER**

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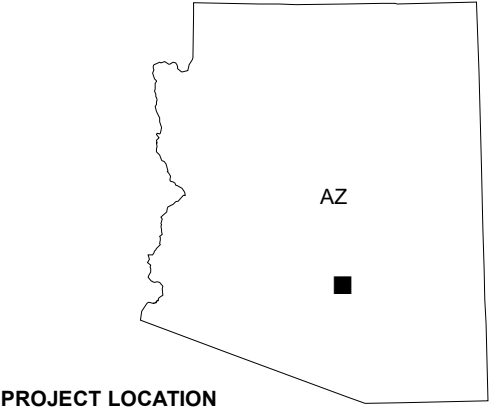
FIGURE 5

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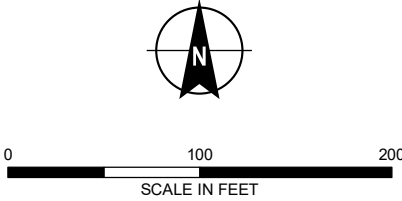


LEGEND

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- PRODUCTION TEST FACILITY (PTF) WELLFIELD



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FLORENCE, ARIZONA

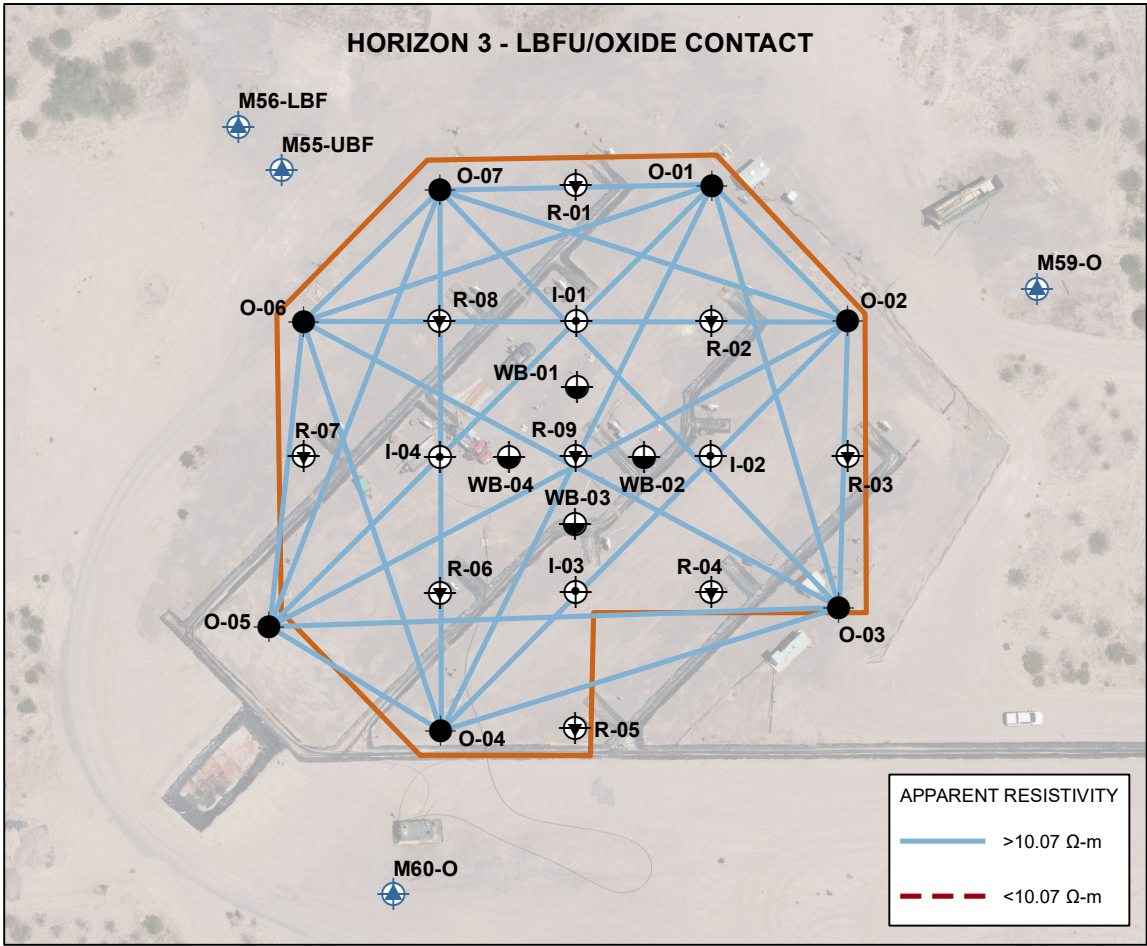
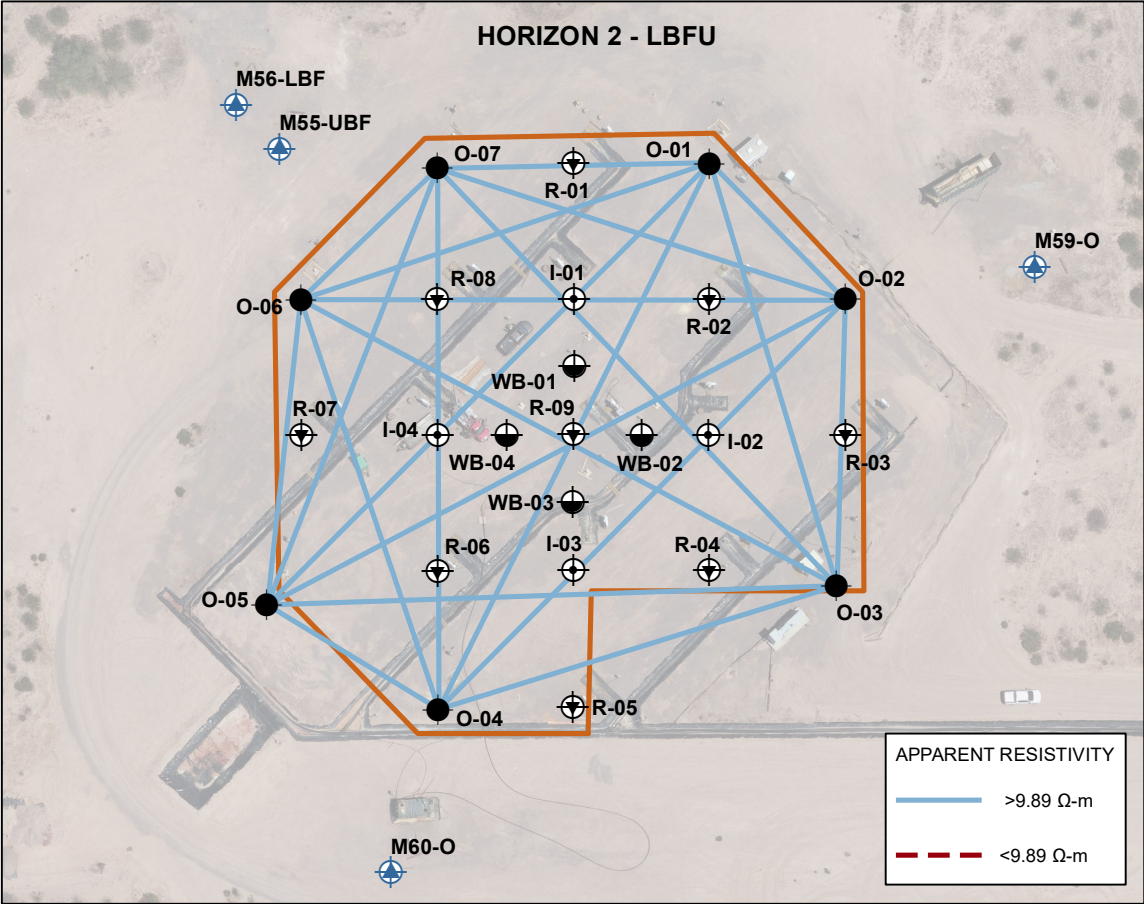
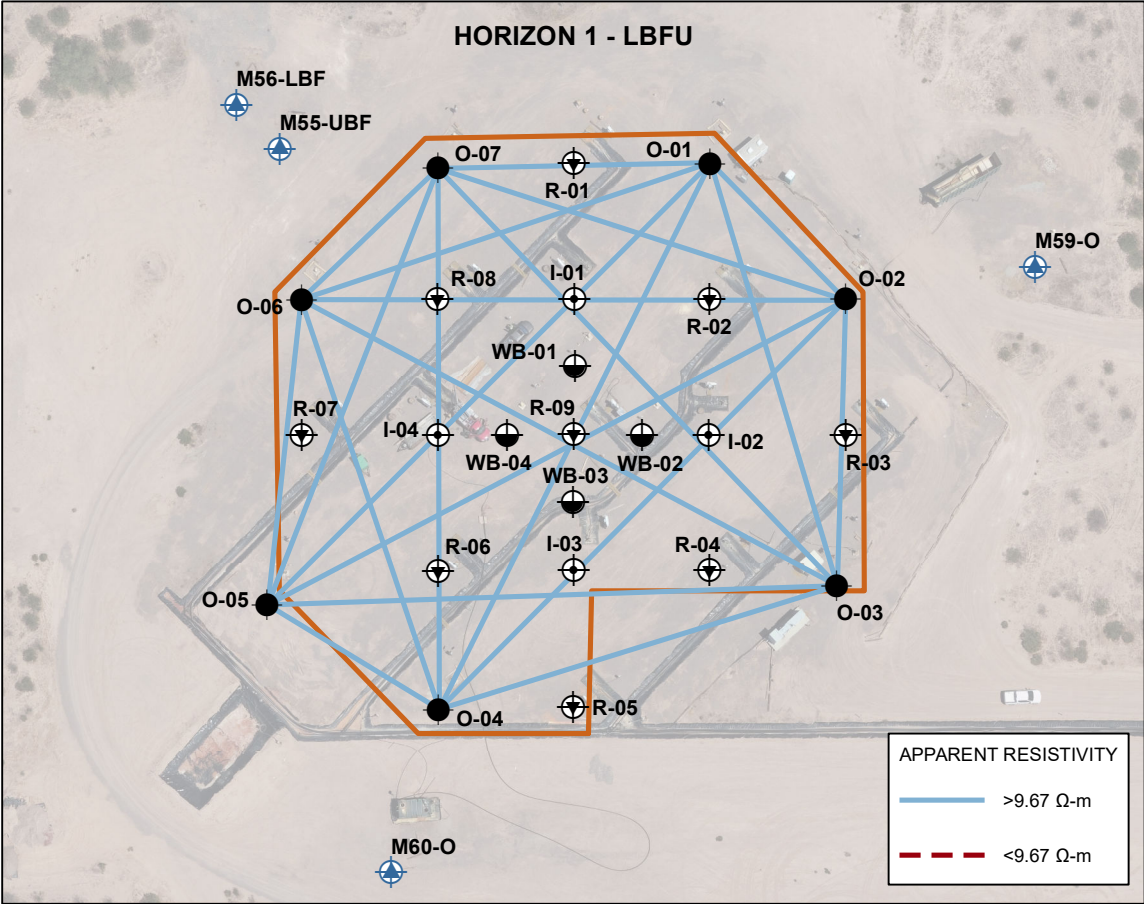
APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 8/15/2023
PRODUCTION TEST FACILITY

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OCTOBER 2023

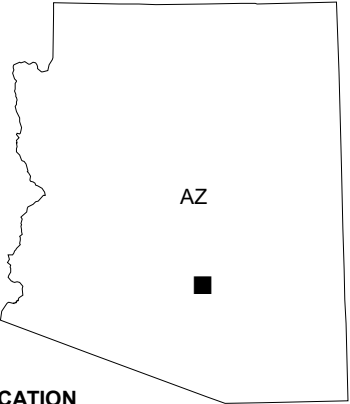
FIGURE 6

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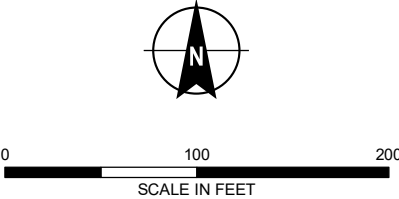
LEGEND

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- ⊕ RECOVERY
- ⊕ WESTBAY
- ⊕ SUPPLEMENTAL MW
- PRODUCTION TEST FACILITY (PTF) WELLFIELD



PROJECT LOCATION

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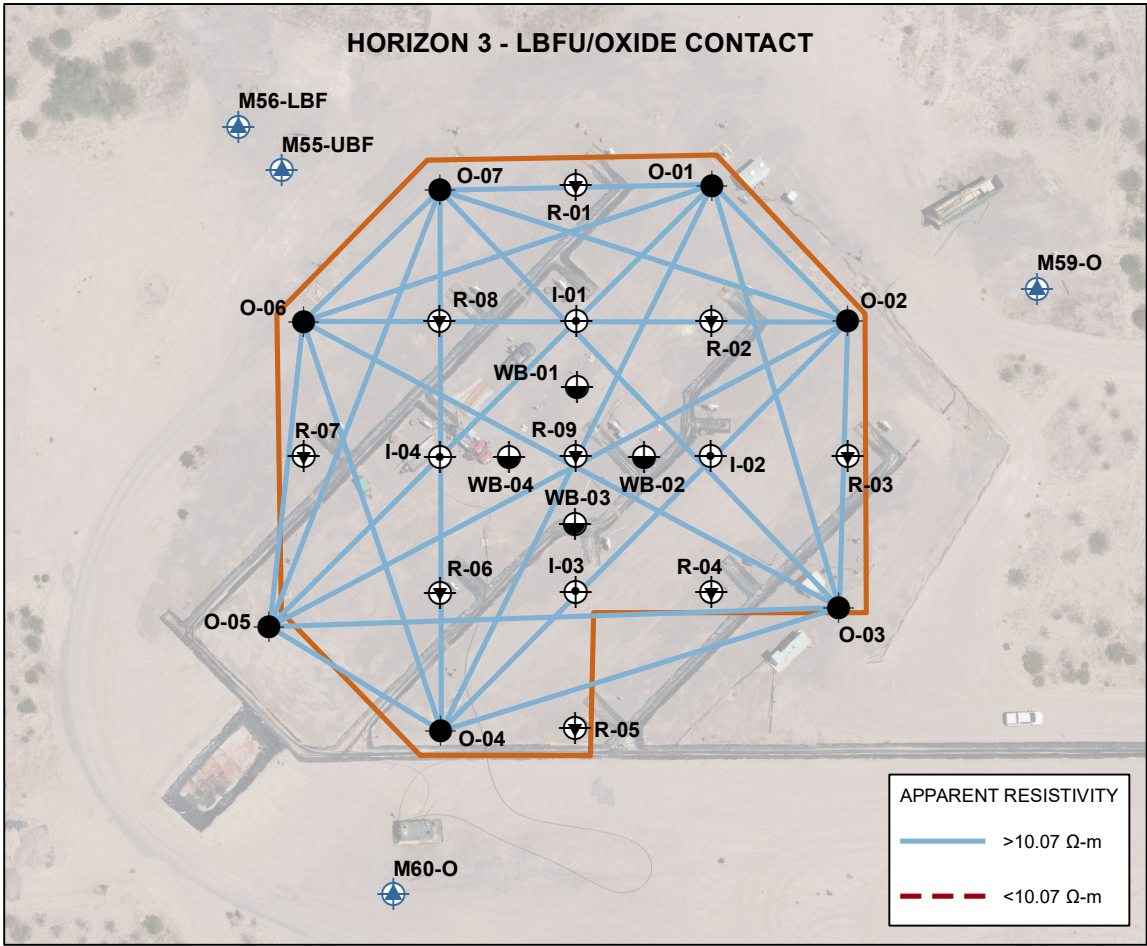
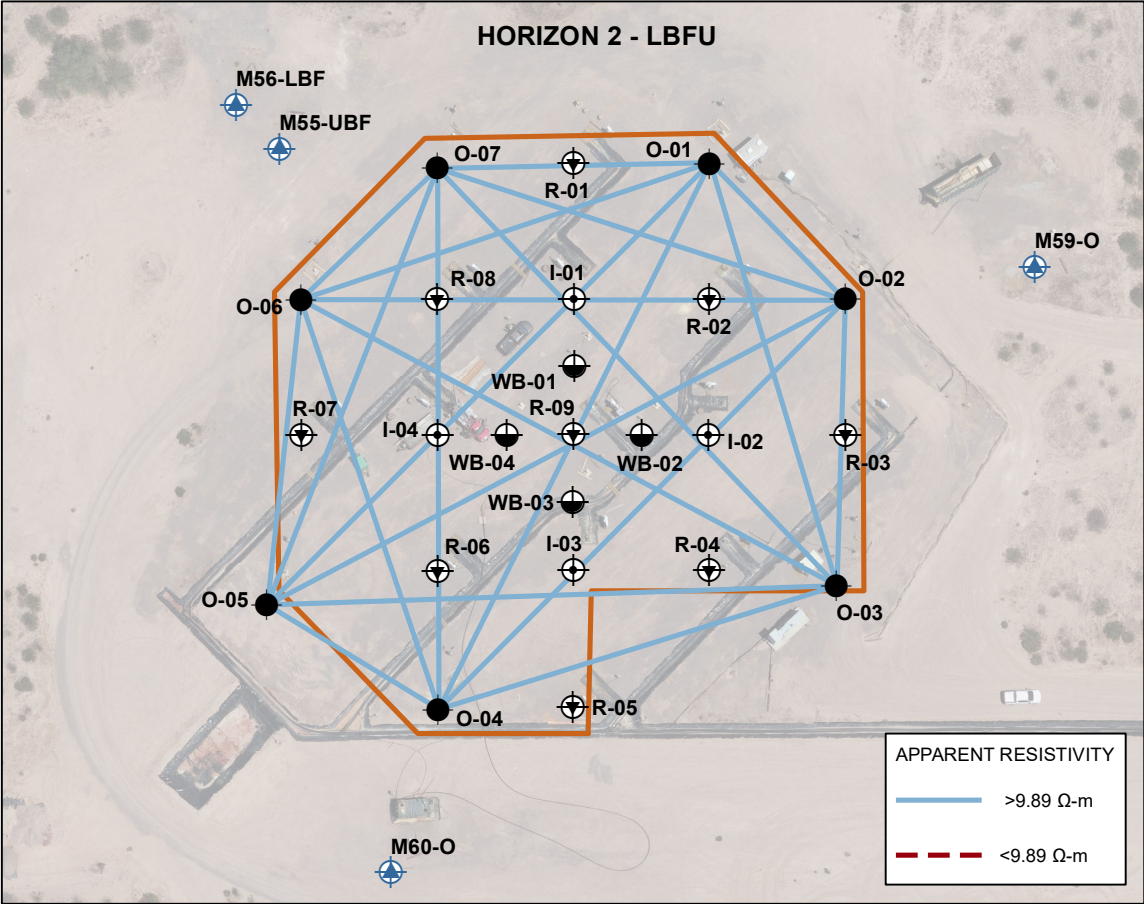
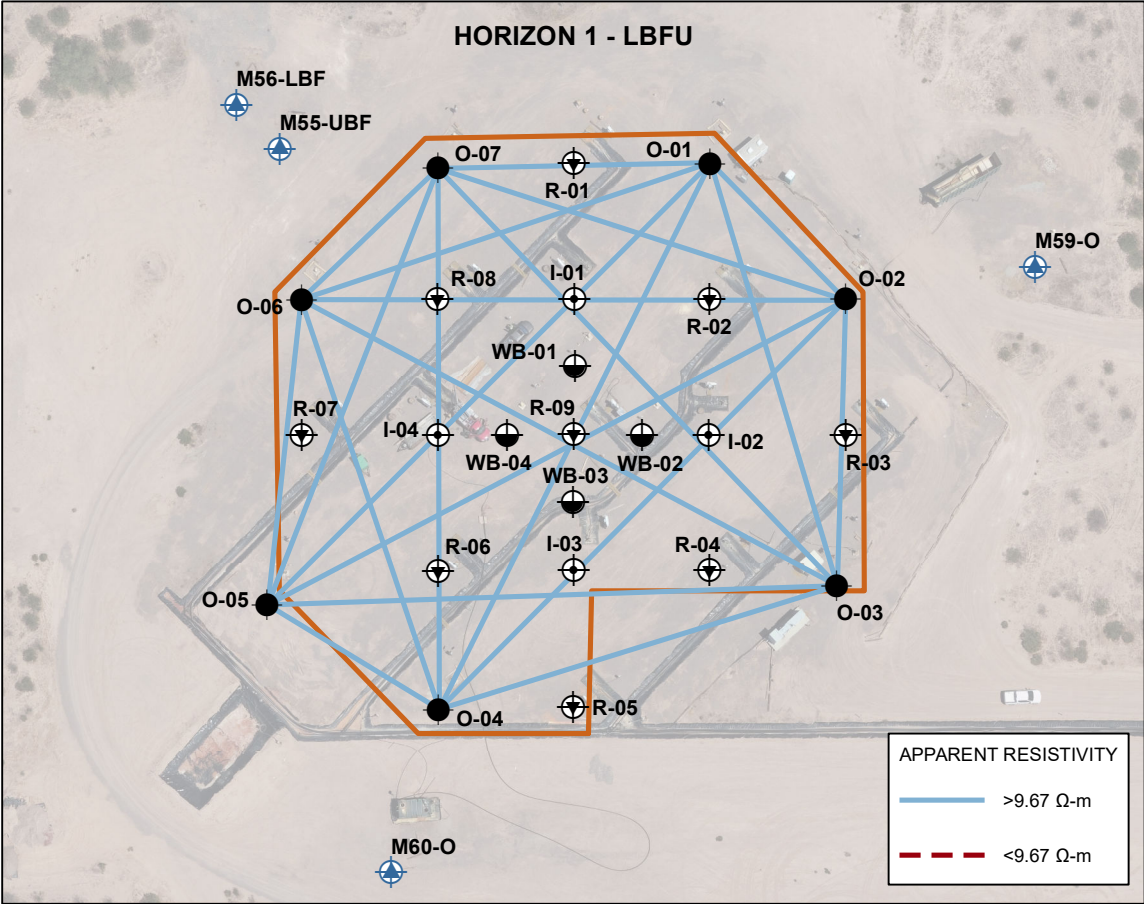
APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 8/23/2023
PRODUCTION TEST FACILITY

**FLORENCE
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OCTOBER 2023

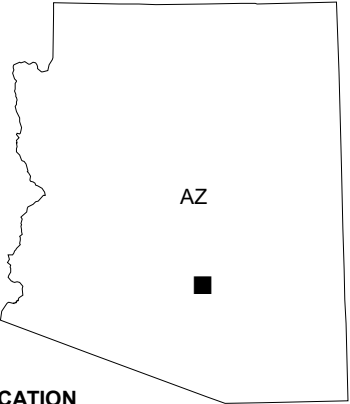
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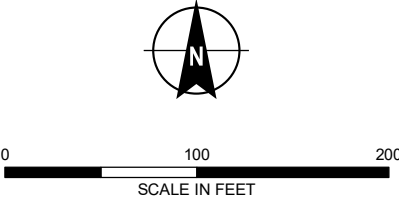
LEGEND

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- ⊕ WESTBAY
- ⊕ SUPPLEMENTAL MW
- ▭ PRODUCTION TEST FACILITY (PTF) WELLFIELD



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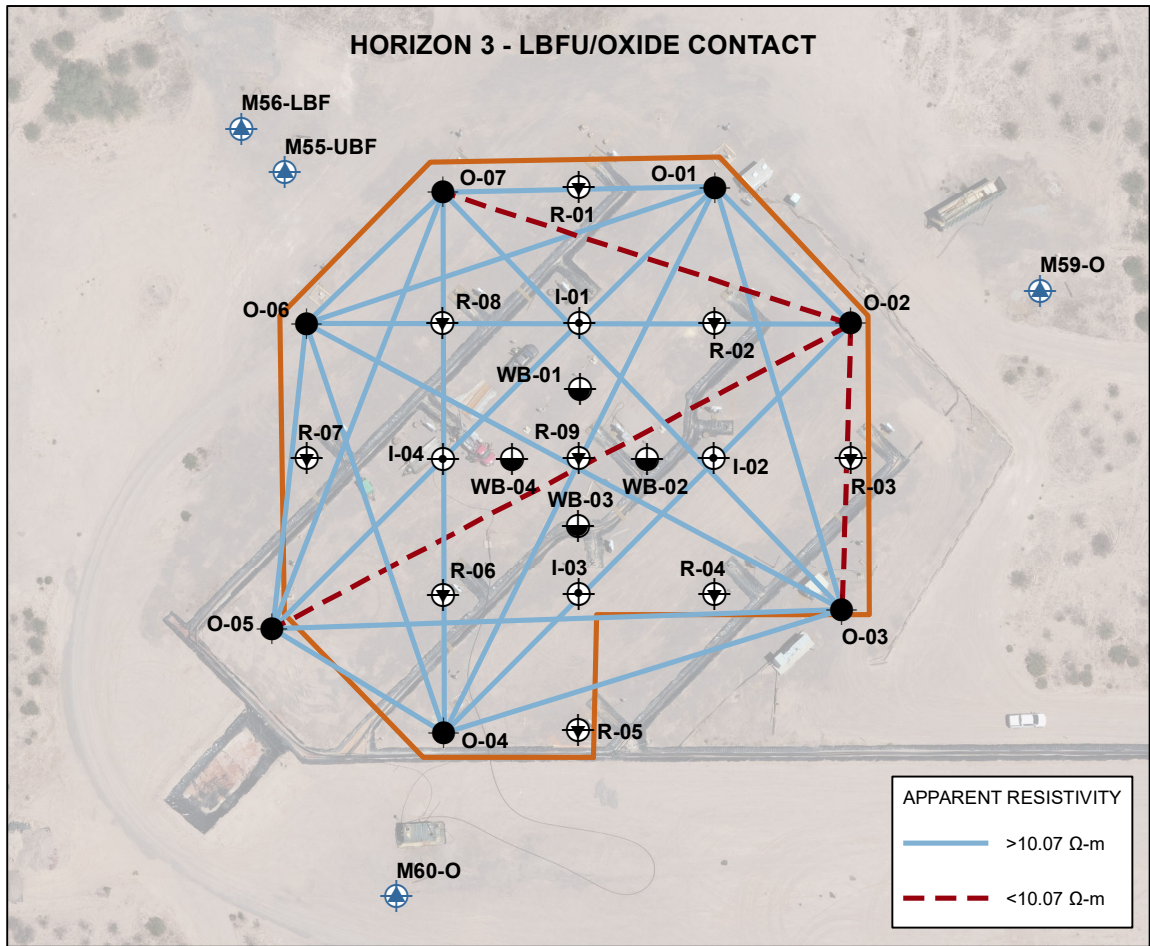
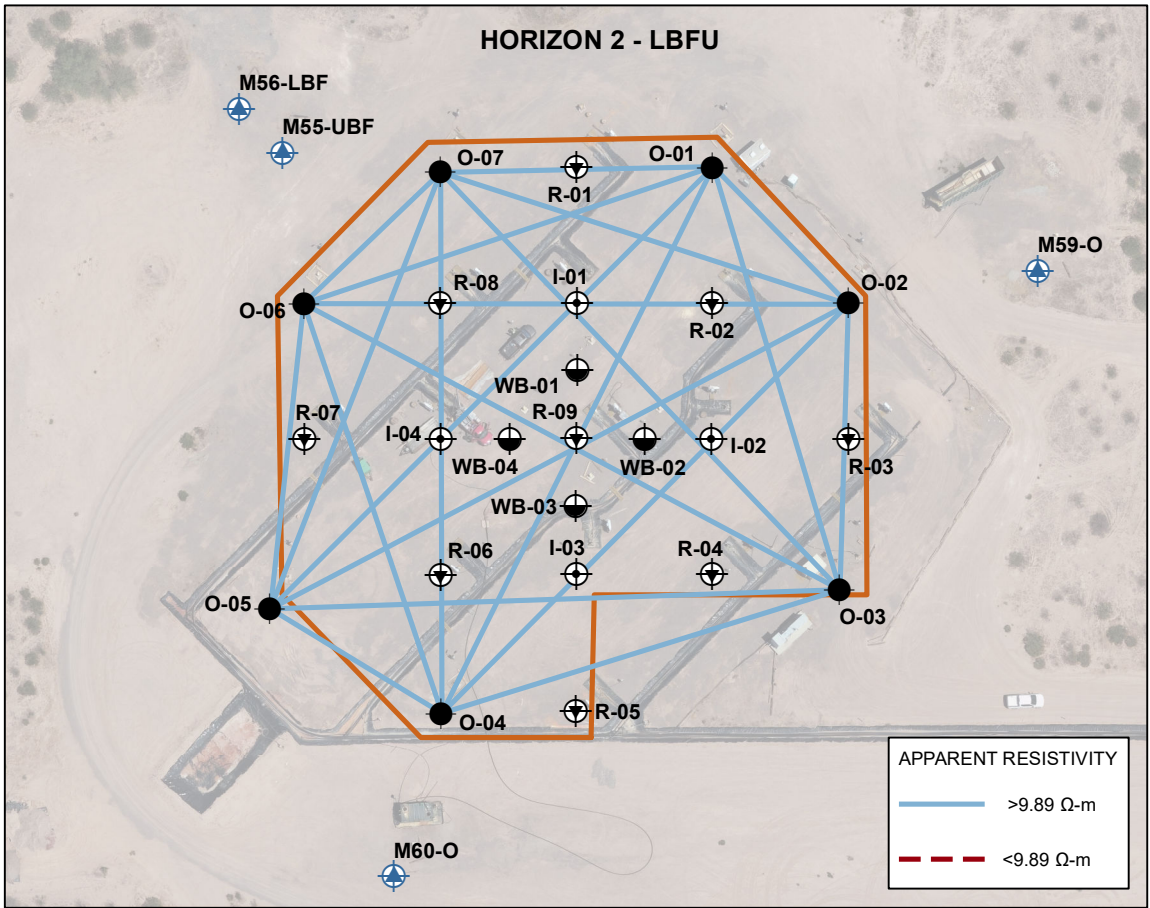
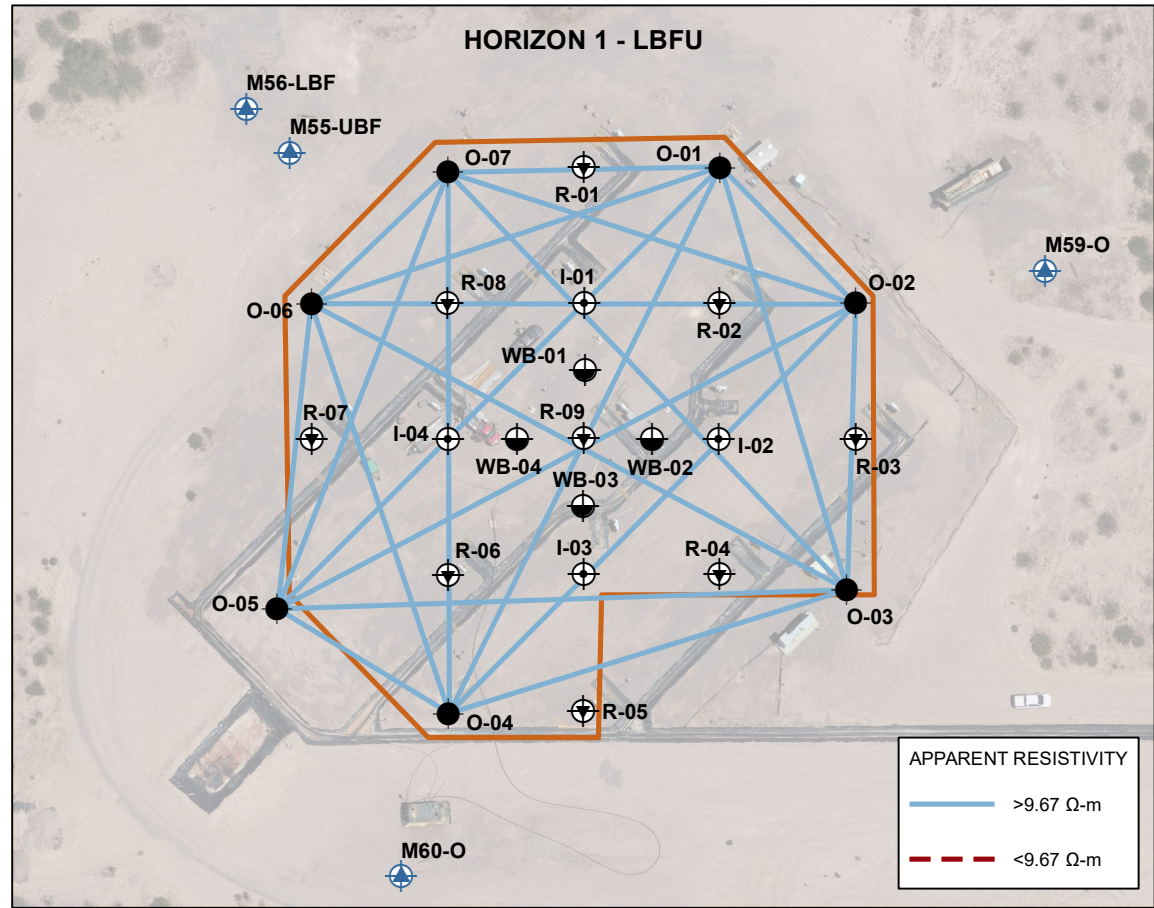
FLORENCE COPPER LLC
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APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 8/29/2023
PRODUCTION TEST FACILITY

**FLORENCE
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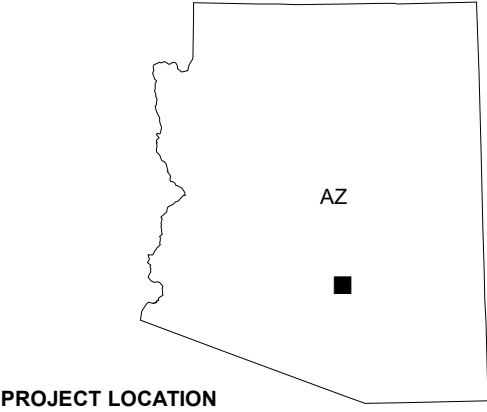
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FIGURE 8

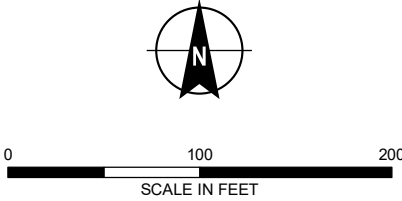


LEGEND

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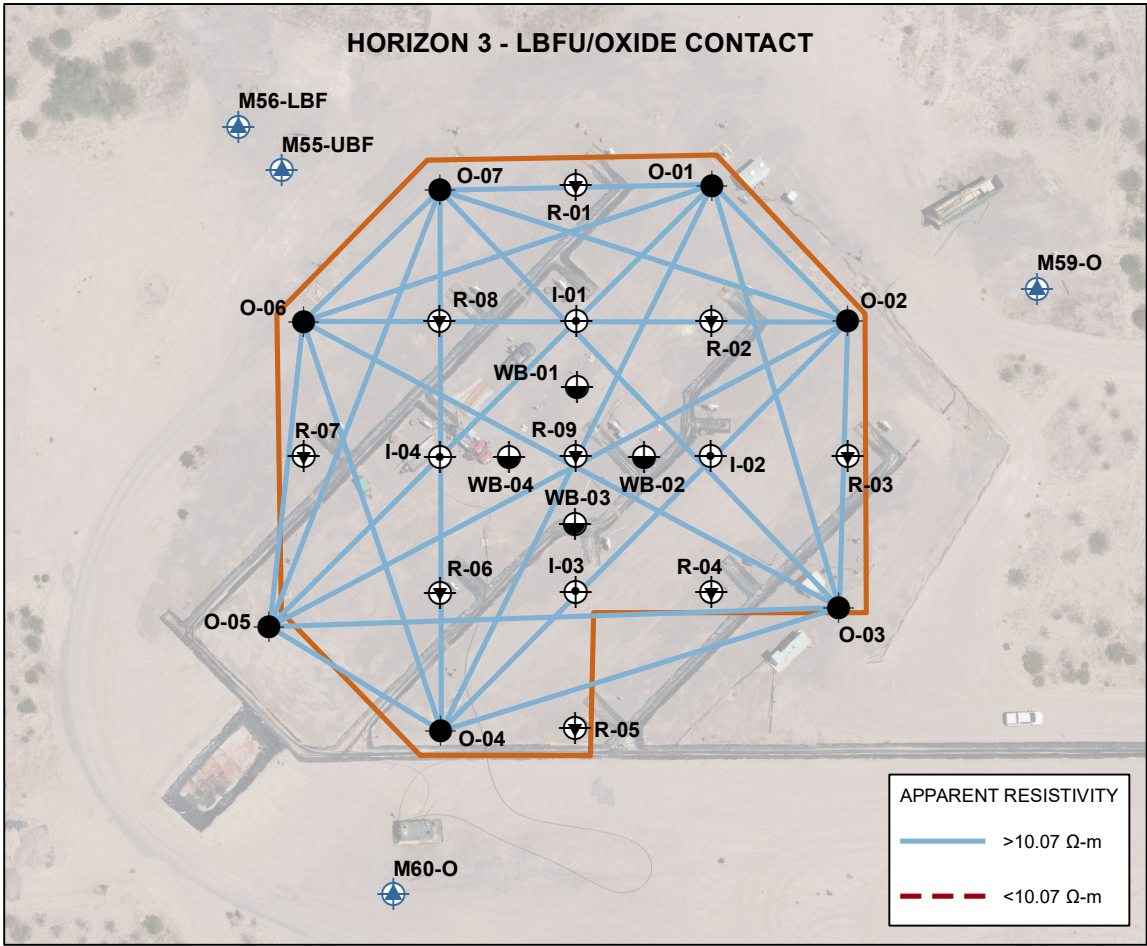
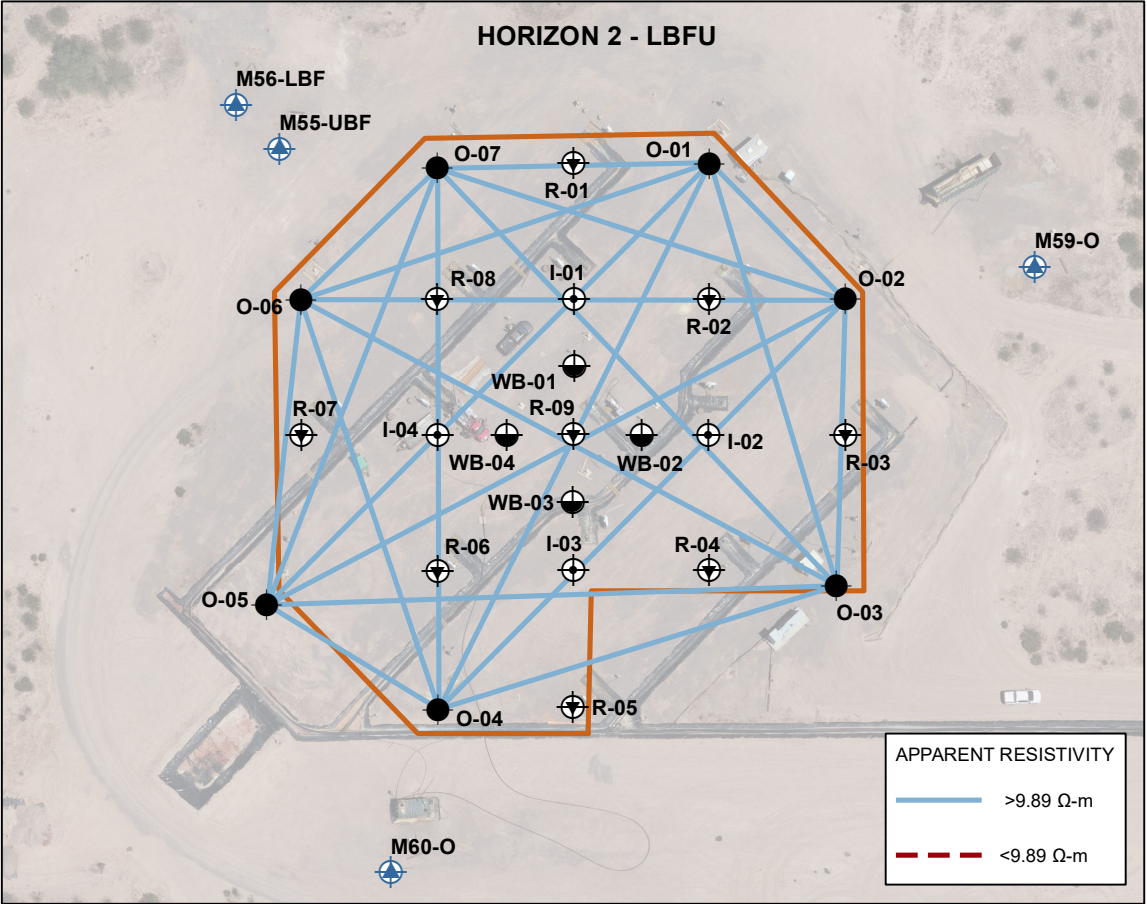
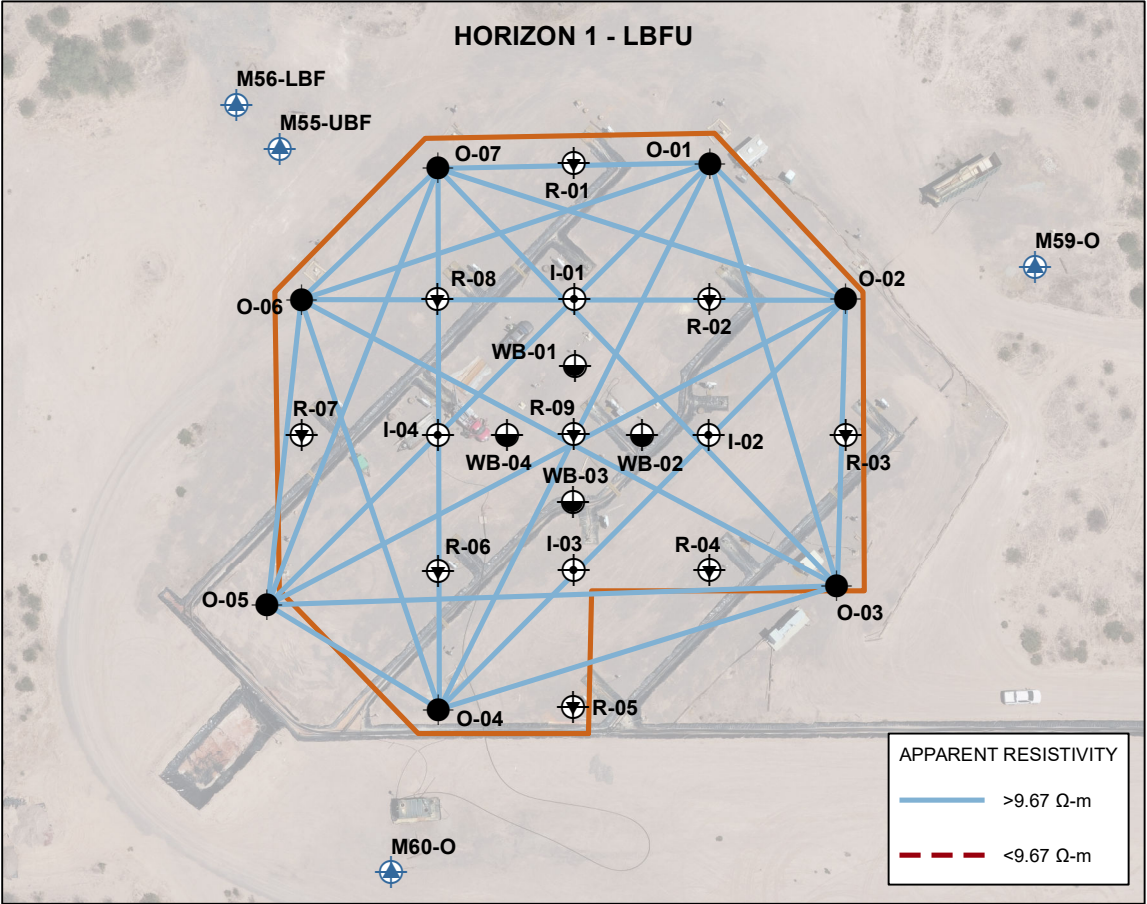
FLORENCE COPPER LLC
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APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 9/5/2023
PRODUCTION TEST FACILITY

**FLORENCE
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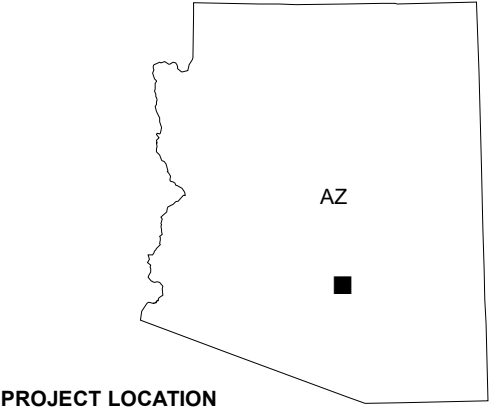
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FIGURE 9

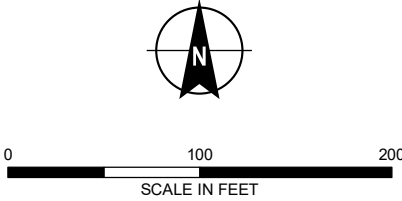


LEGEND

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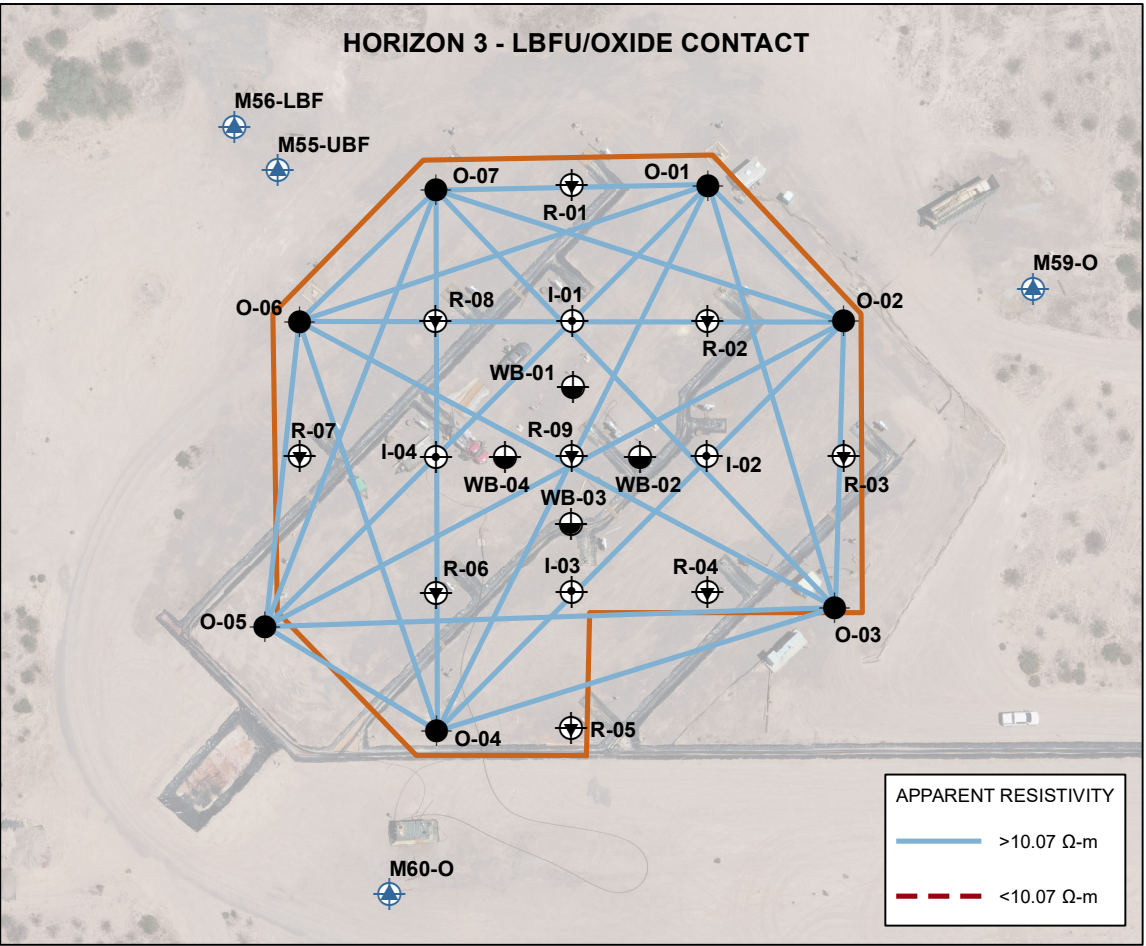
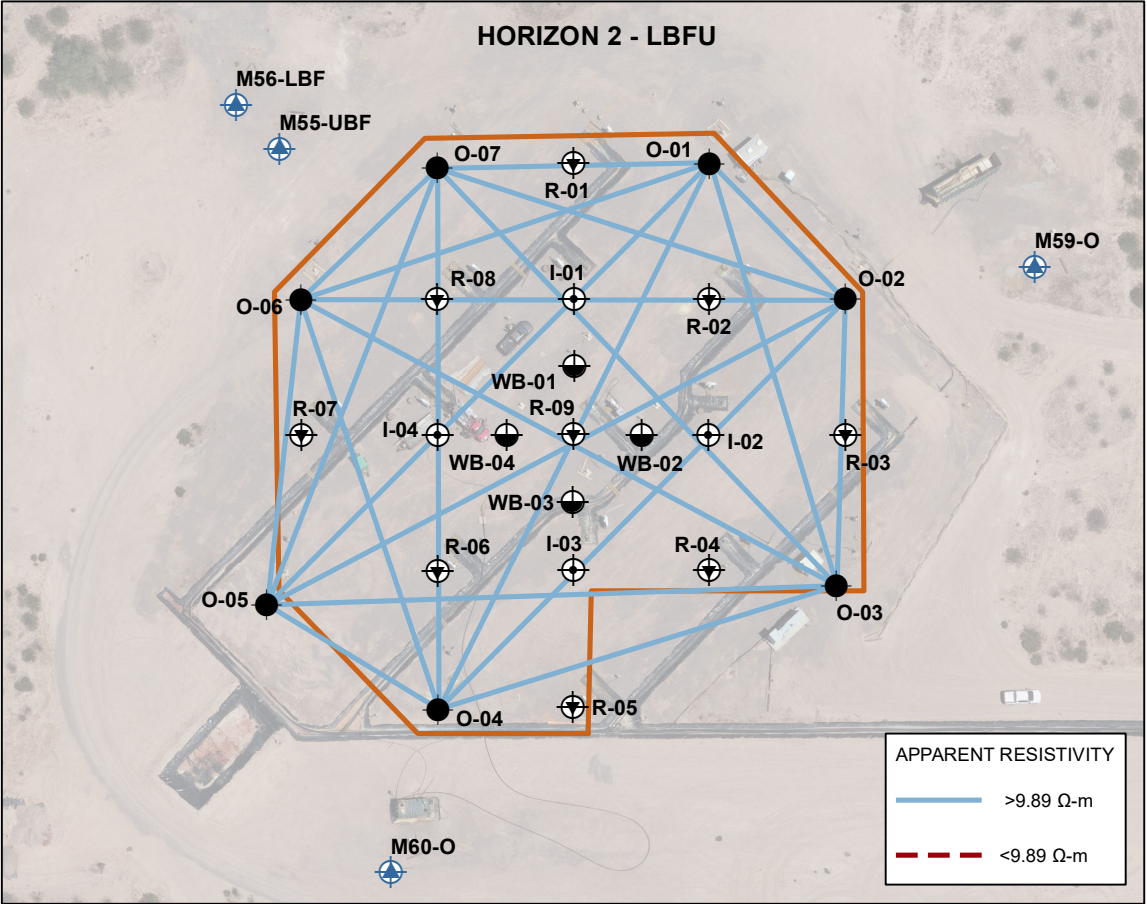
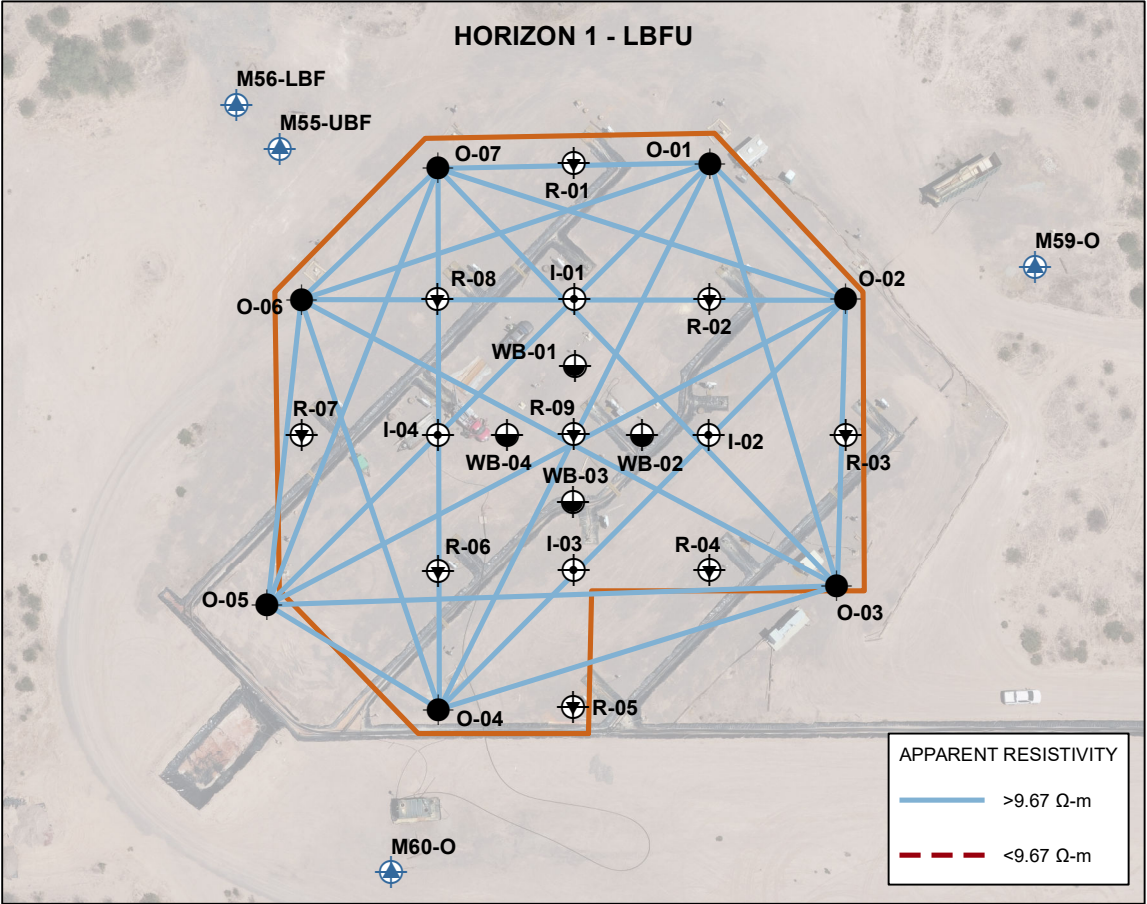
APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 9/16/2023
PRODUCTION TEST FACILITY

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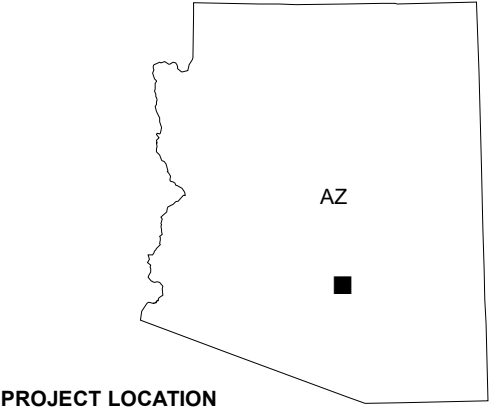
FIGURE 10

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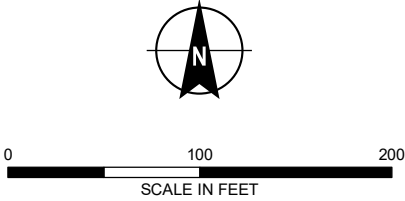


LEGEND

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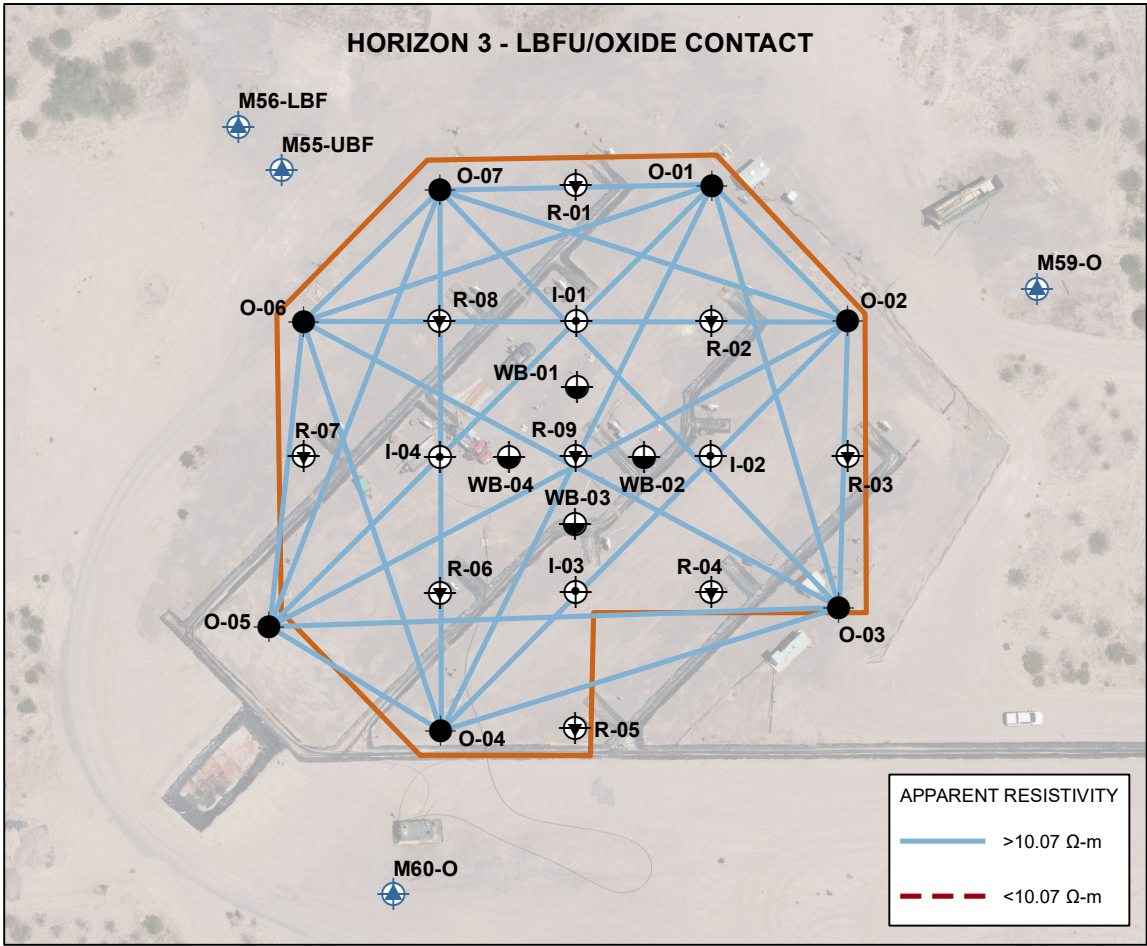
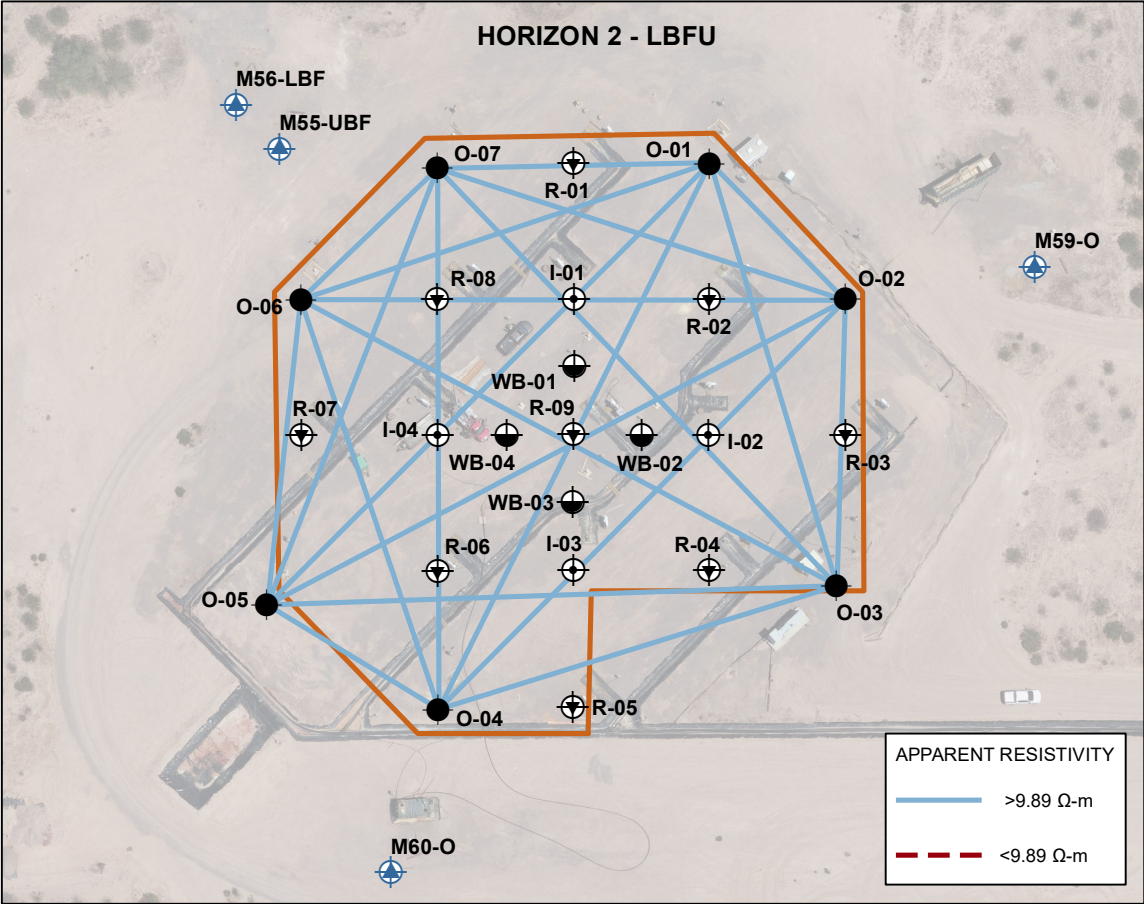
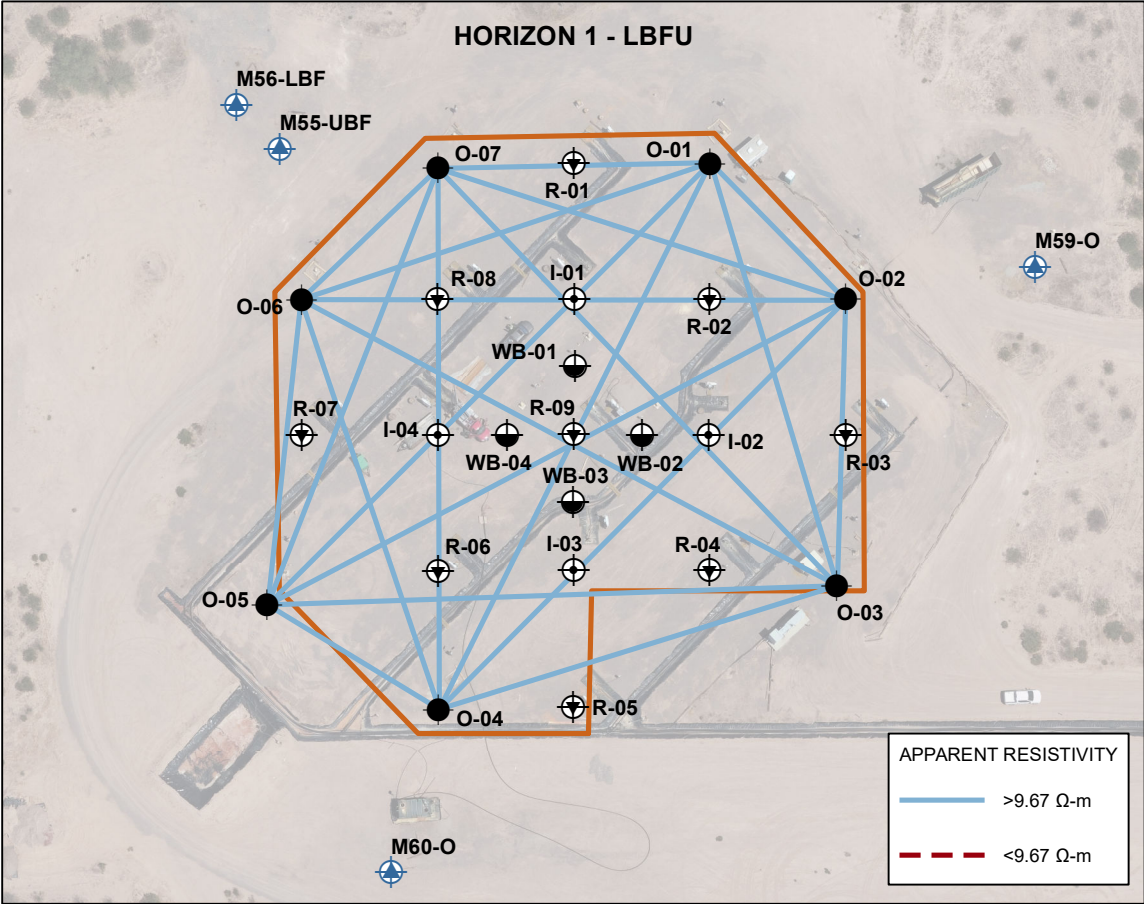
FLORENCE COPPER LLC
FLORENCE, ARIZONA

APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 9/22/2023
PRODUCTION TEST FACILITY

**FLORENCE
COPPER**

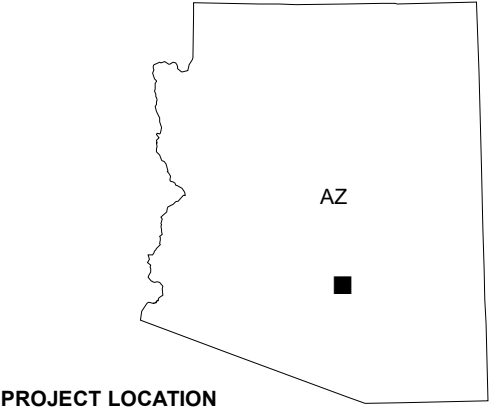
OCTOBER 2023

FIGURE 11

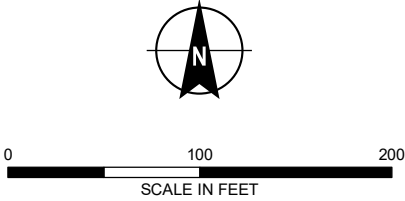


LEGEND

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FLORENCE, ARIZONA

APPARENT BULK RESISTIVITY
BETWEEN ELECTRODE PAIRS BY
HORIZON- 9/29/2023
PRODUCTION TEST FACILITY

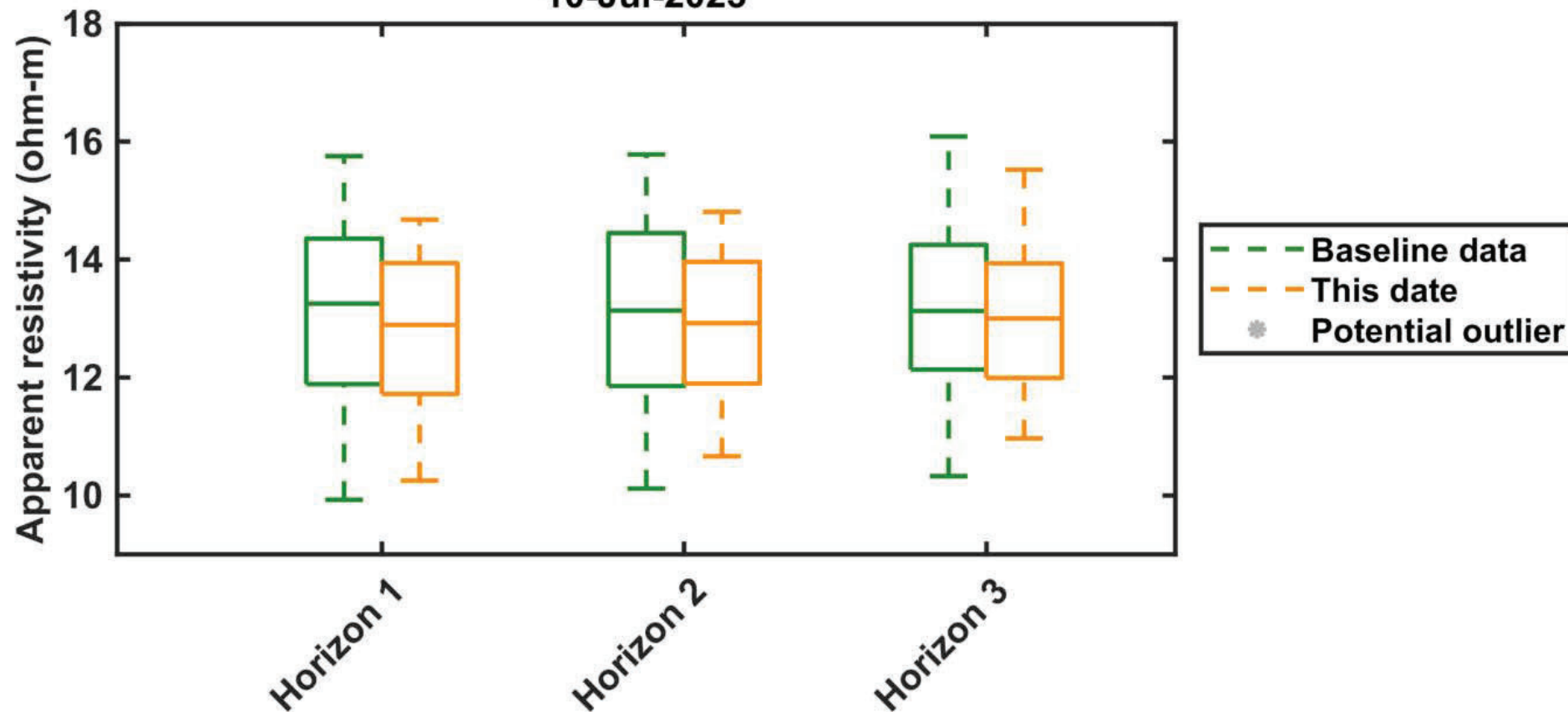
**FLORENCE
COPPER**

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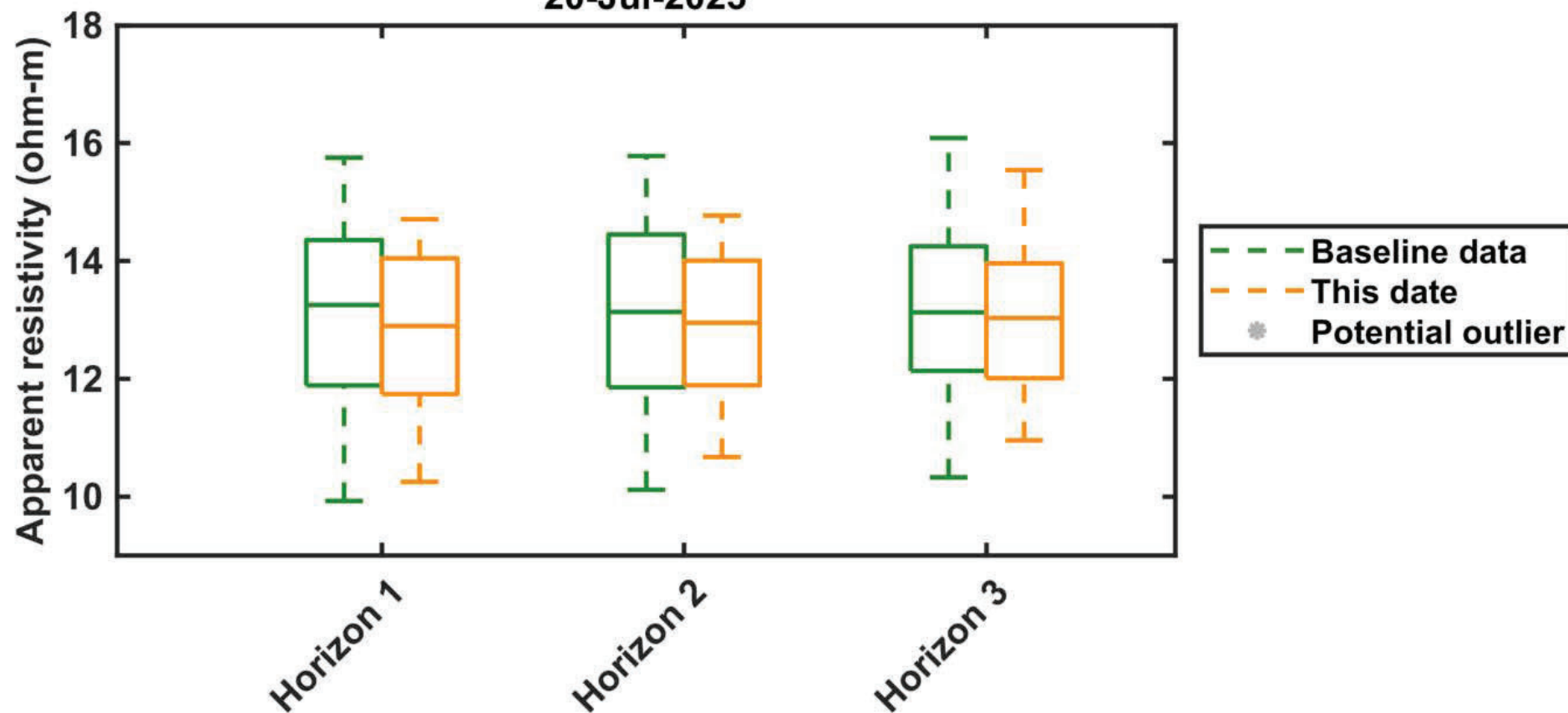
FIGURE 12

ATTACHMENT A
Box Diagrams for Third Quarter Monitoring Data

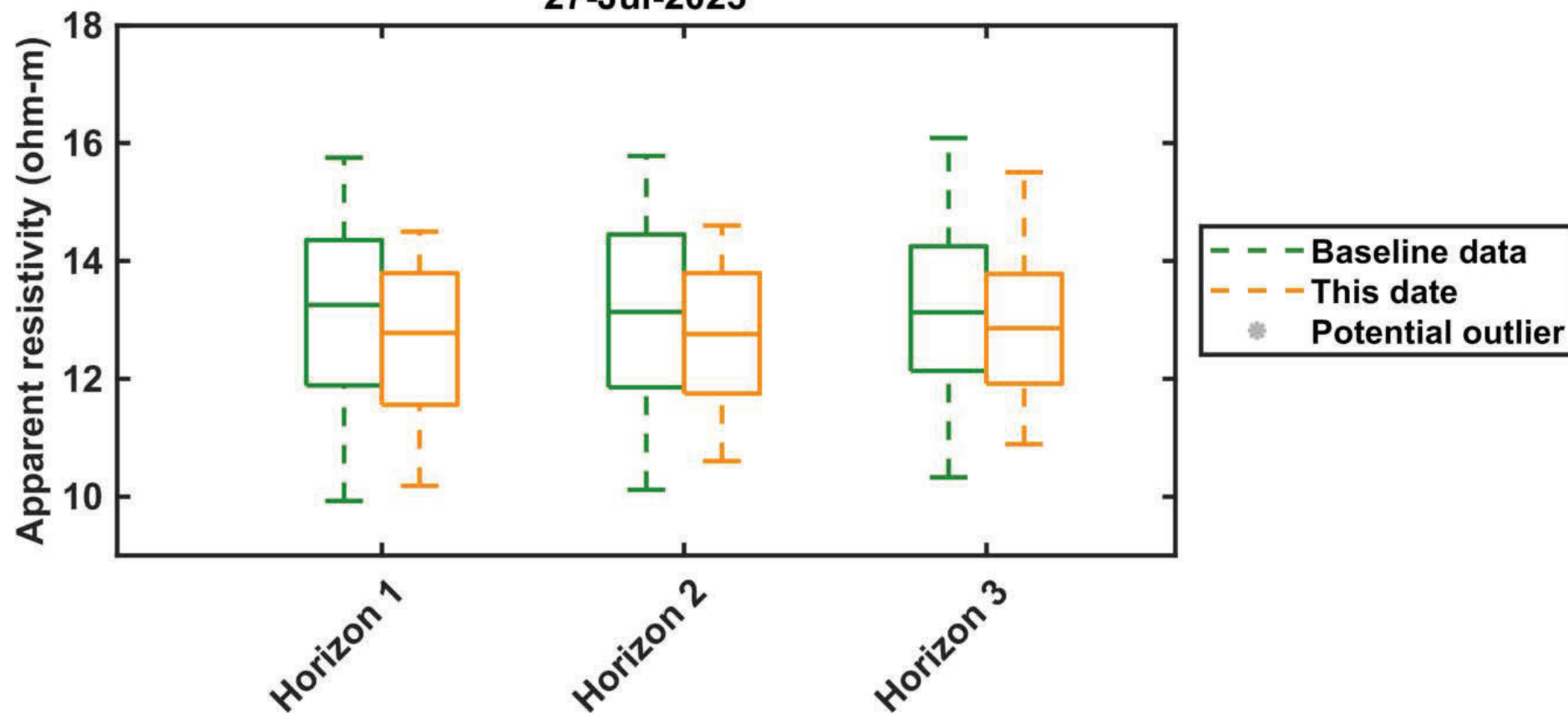
Florence electrical conductivity monitoring
10-Jul-2023



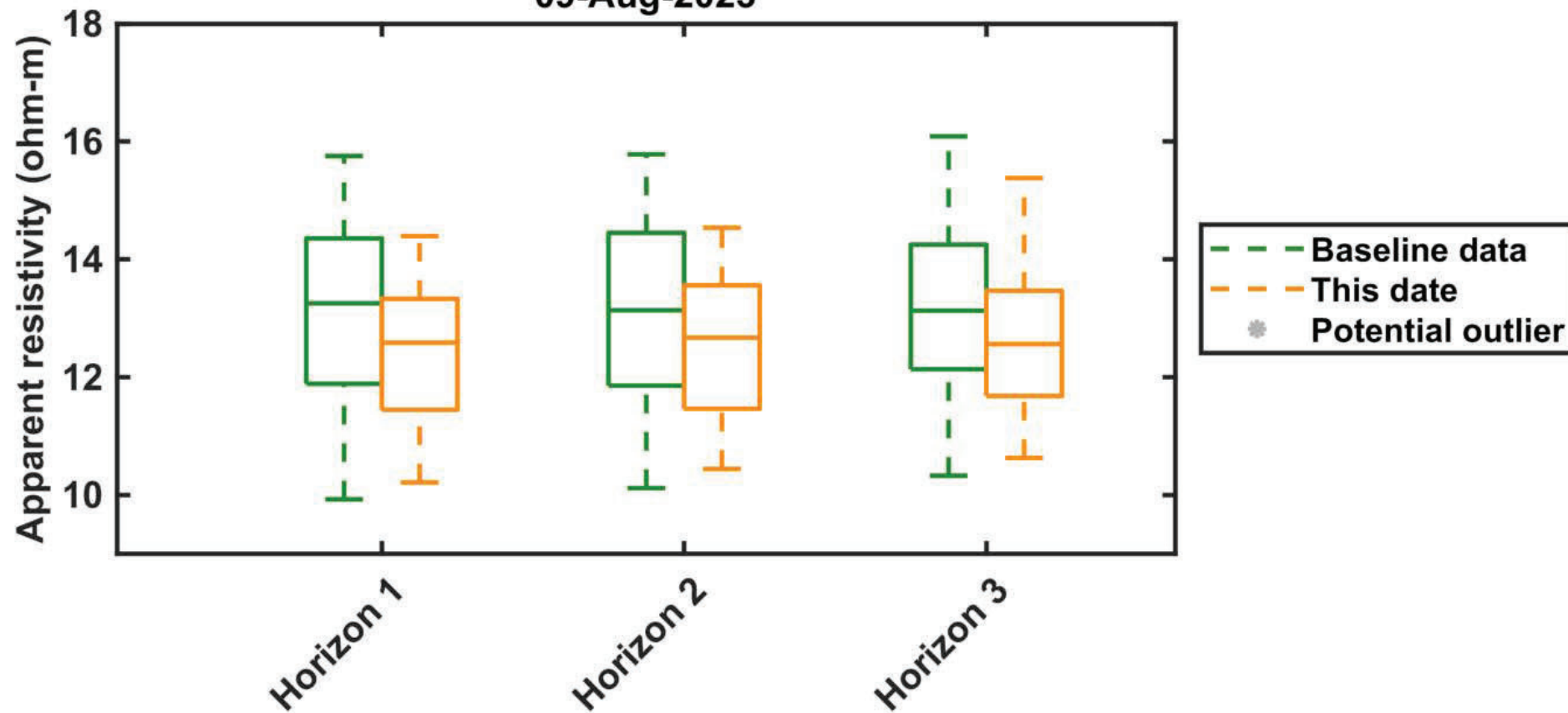
Florence electrical conductivity monitoring
20-Jul-2023



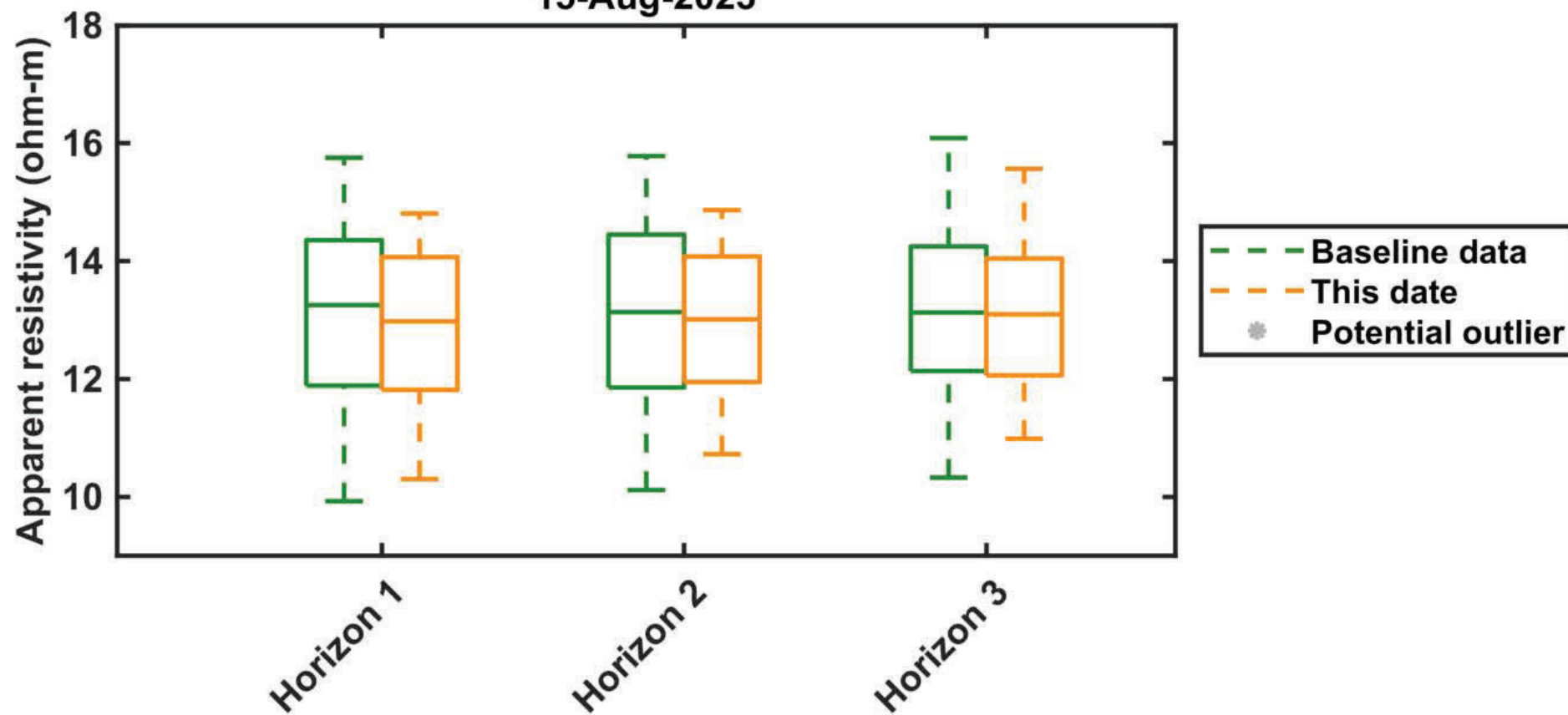
Florence electrical conductivity monitoring
27-Jul-2023



Florence electrical conductivity monitoring
09-Aug-2023

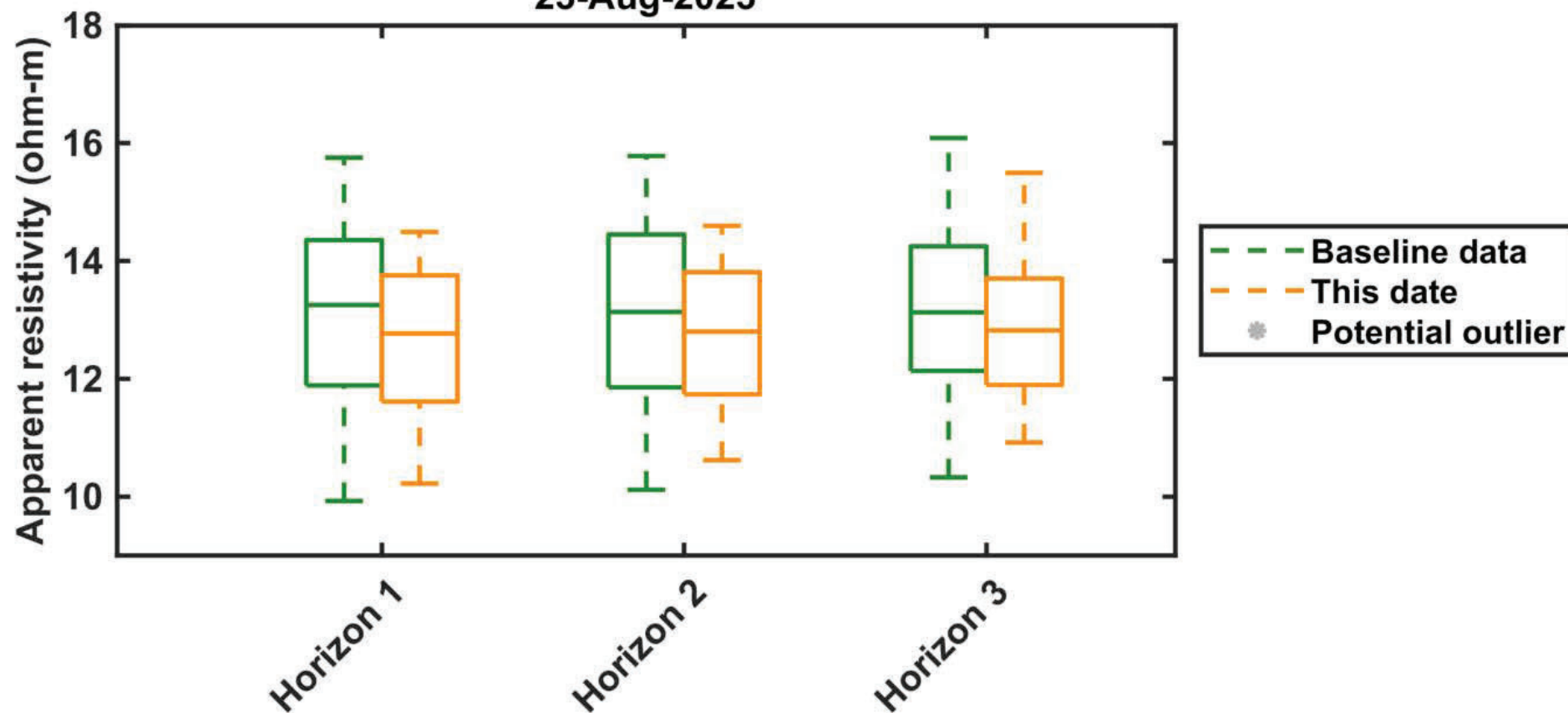


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15-Aug-2023

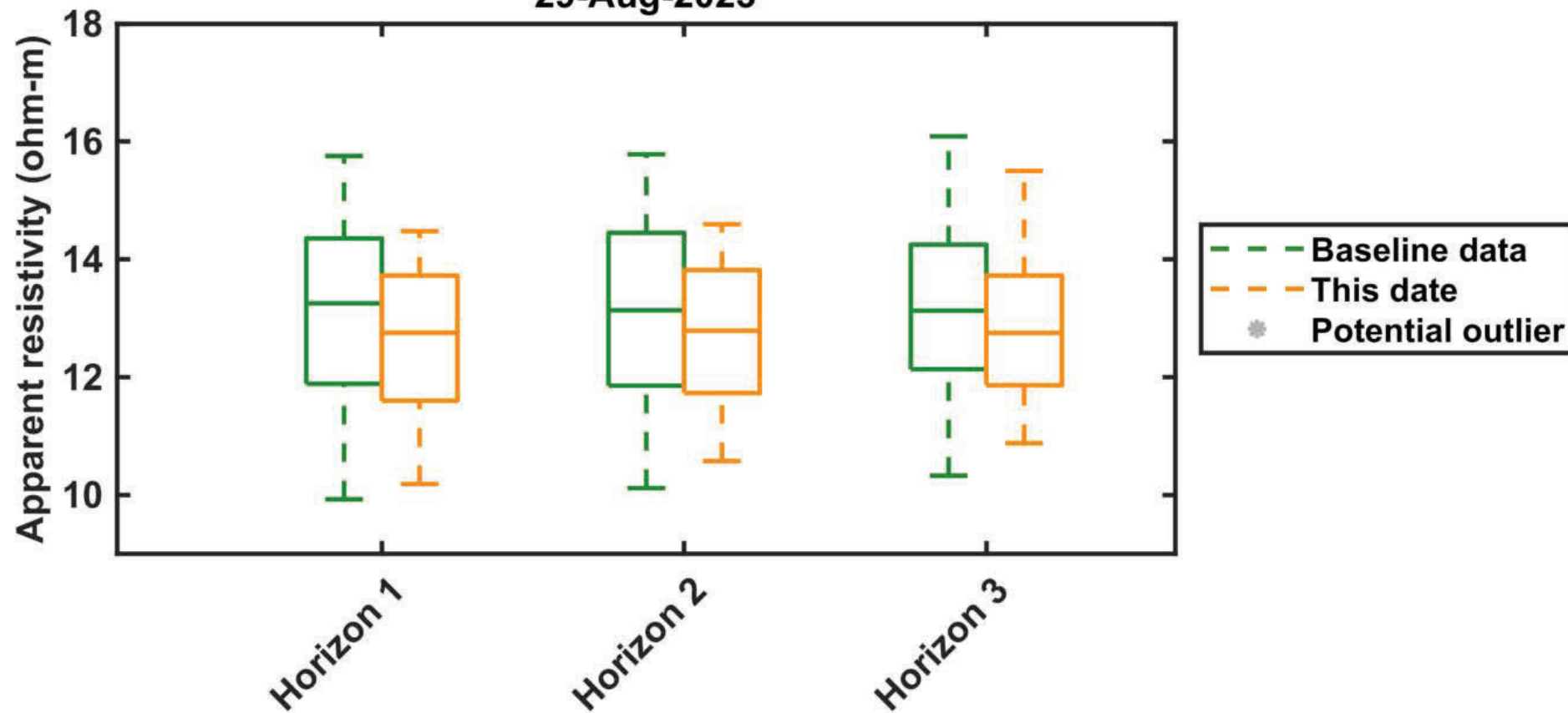


Florence electrical conductivity monitoring

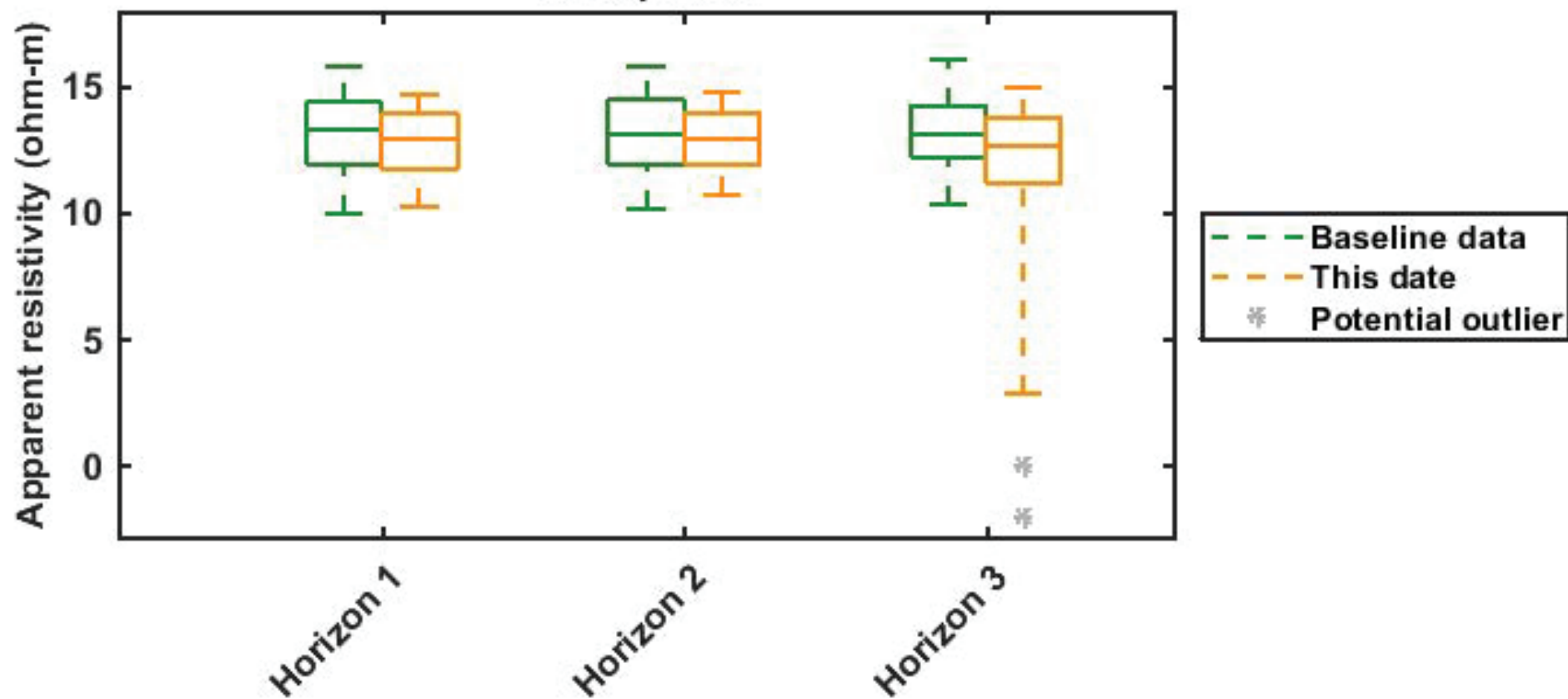
23-Aug-2023



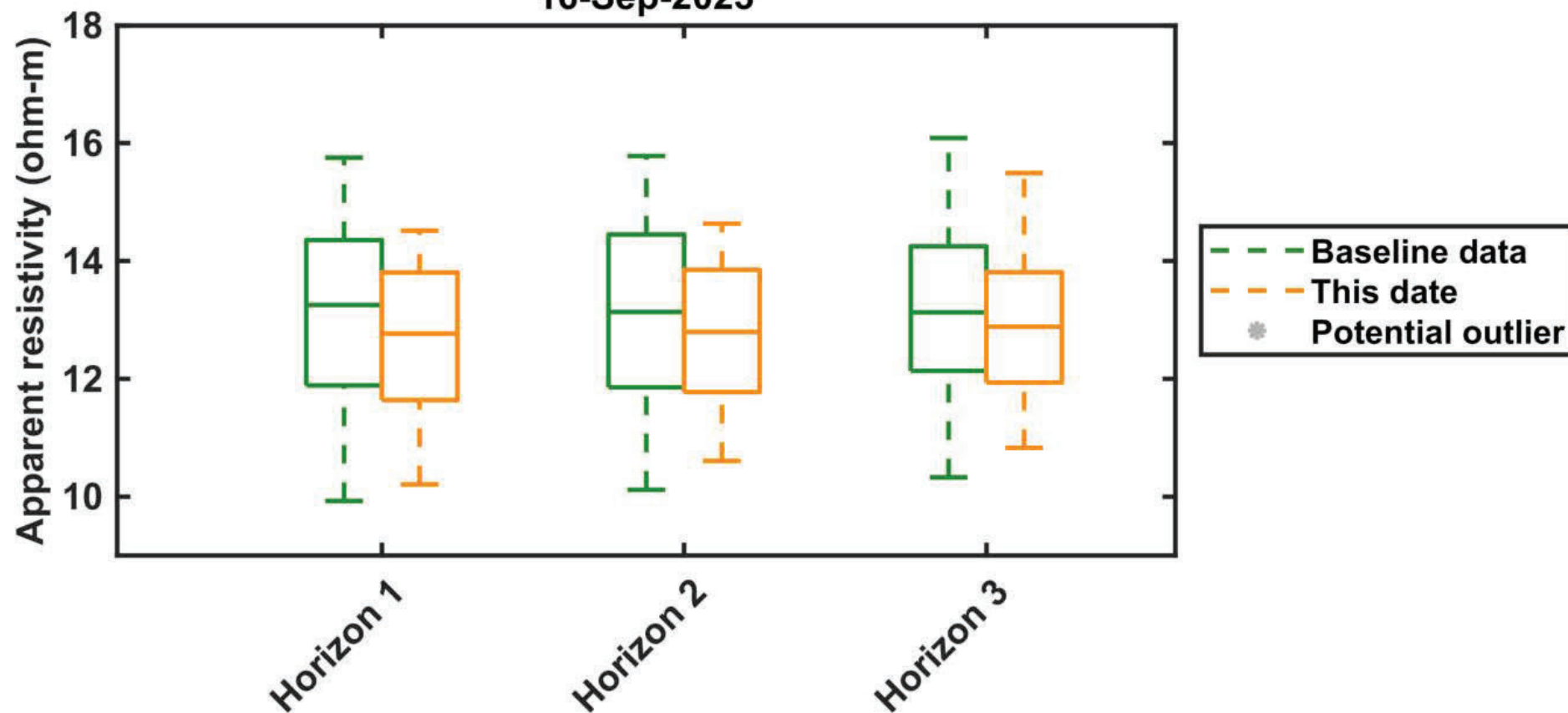
Florence electrical conductivity monitoring
29-Aug-2023



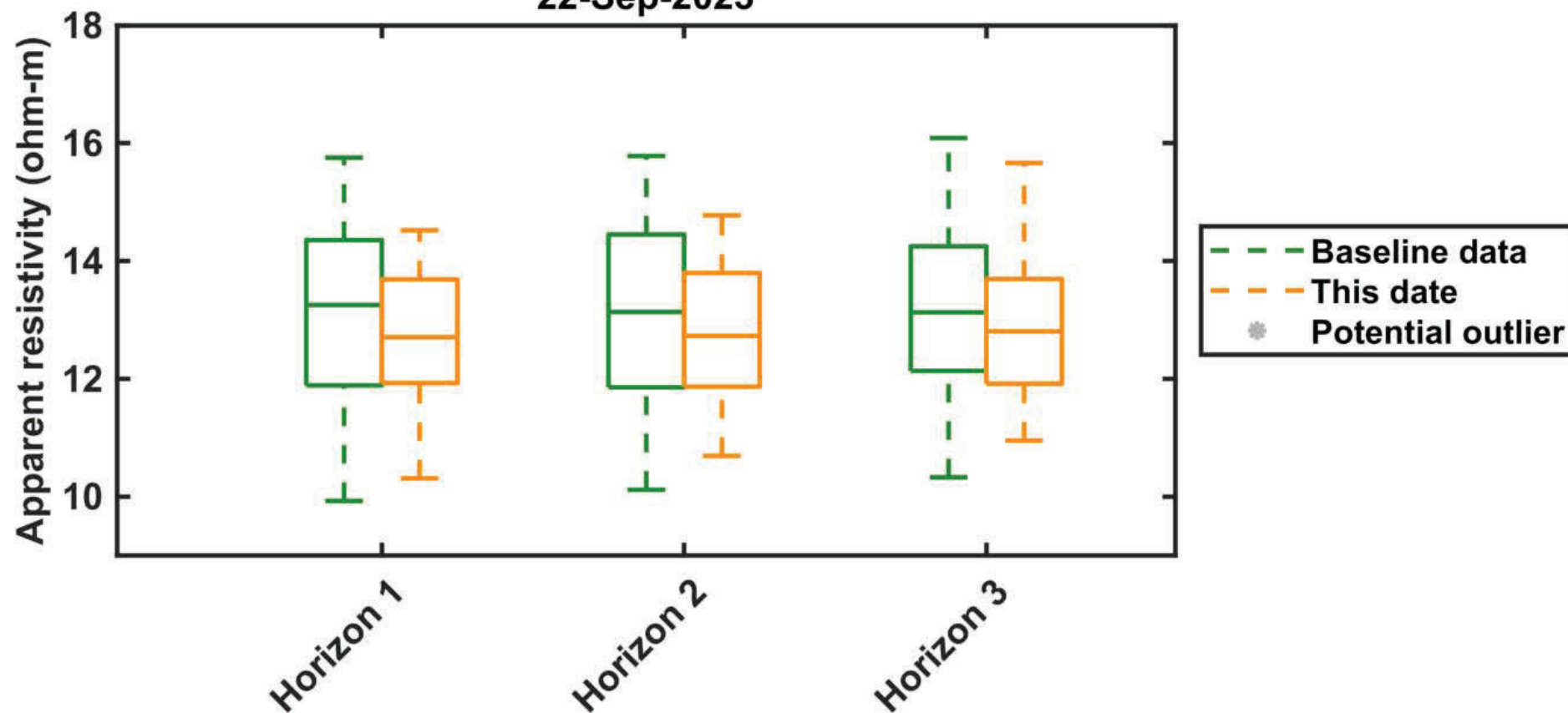
Florence electrical conductivity monitoring
05-Sep-2023



Florence electrical conductivity monitoring
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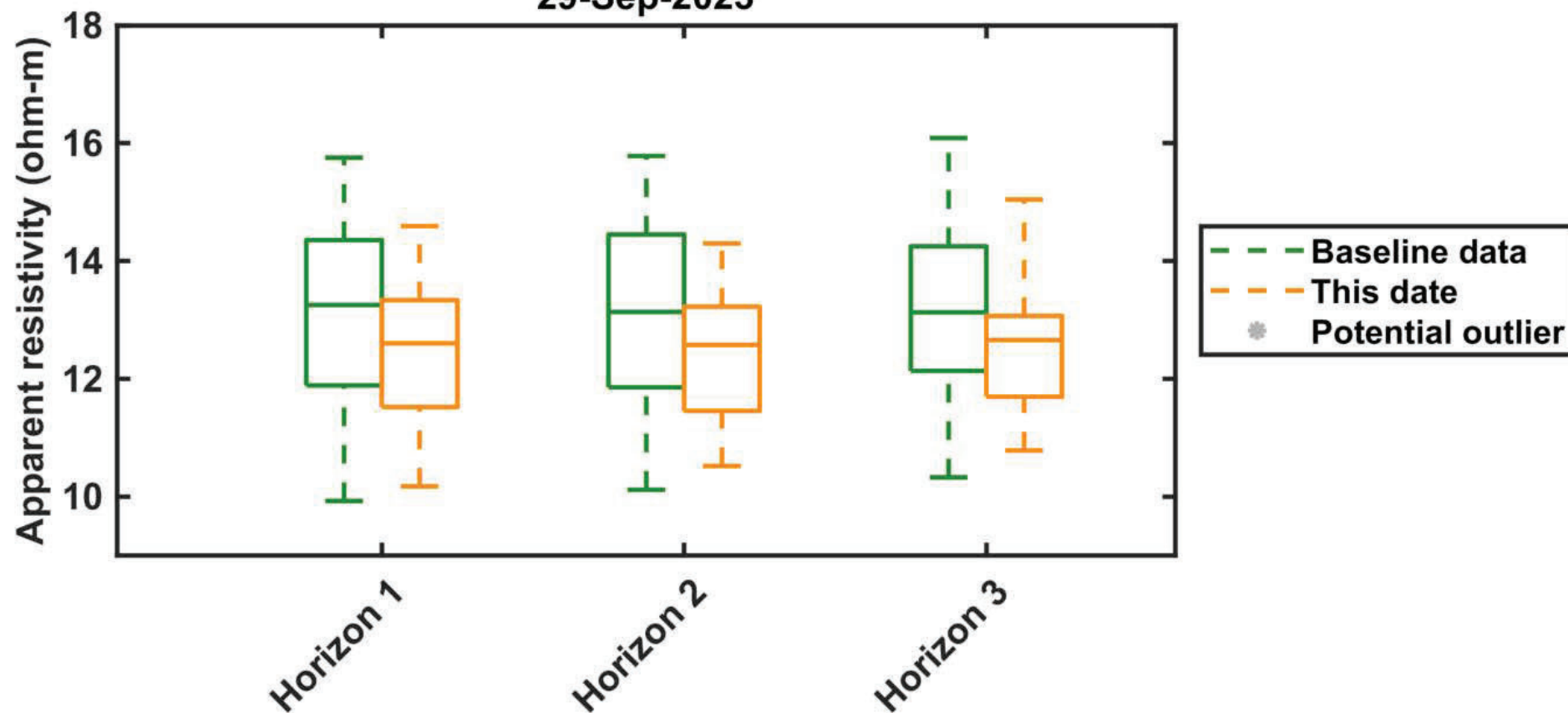


Florence electrical conductivity monitoring
22-Sep-2023



Florence electrical conductivity monitoring

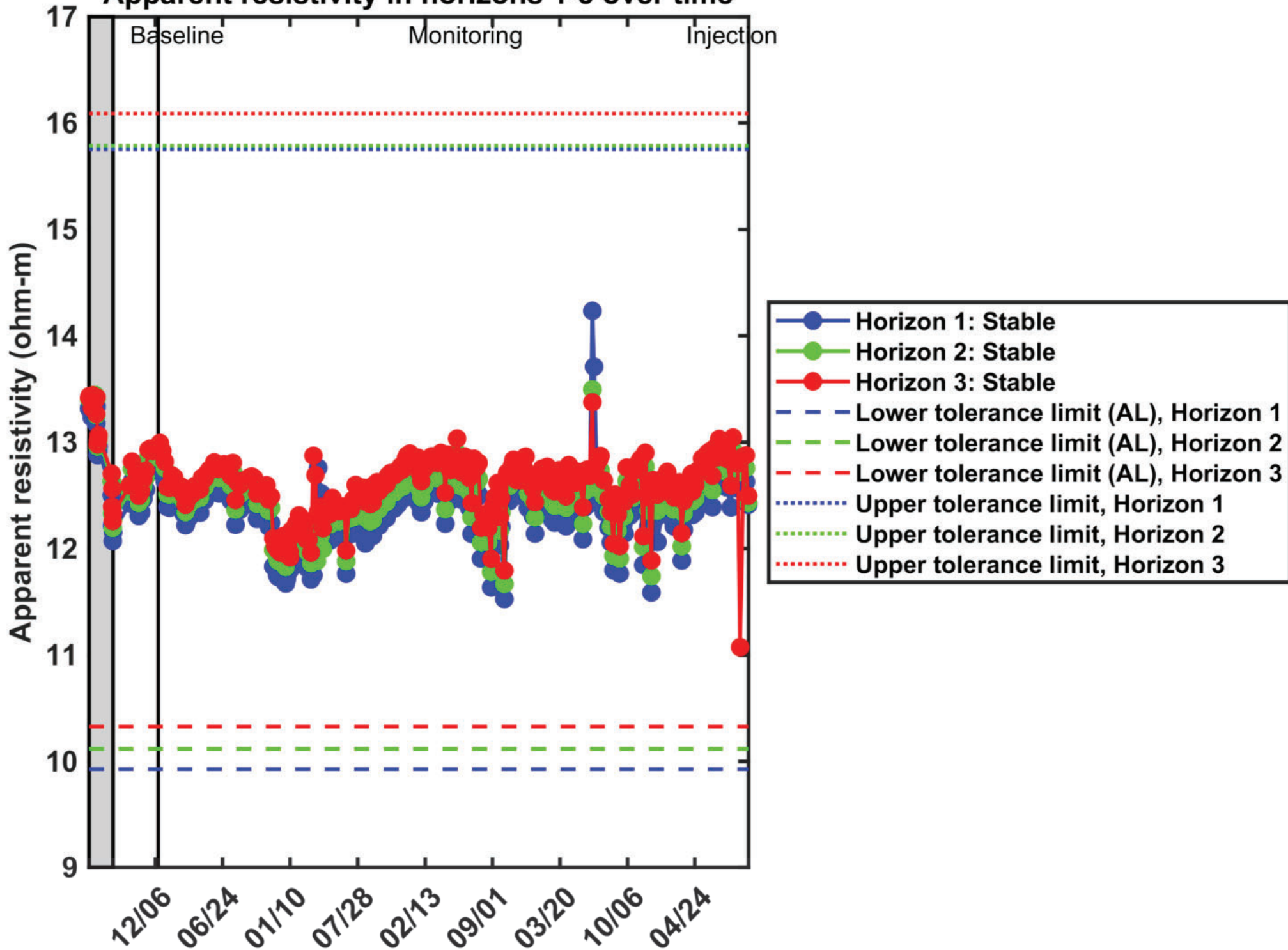
29-Sep-2023



ATTACHMENT B
Summary Plot of Bulk Electrical Conductivity

Florence ambient electrical conductivity monitoring

Apparent resistivity in horizons 1-3 over time



ATTACHMENT 6

Table and Graphs of Monitor Well Water Levels and Analytical Results

6A. Quarterly Concentration Graphs

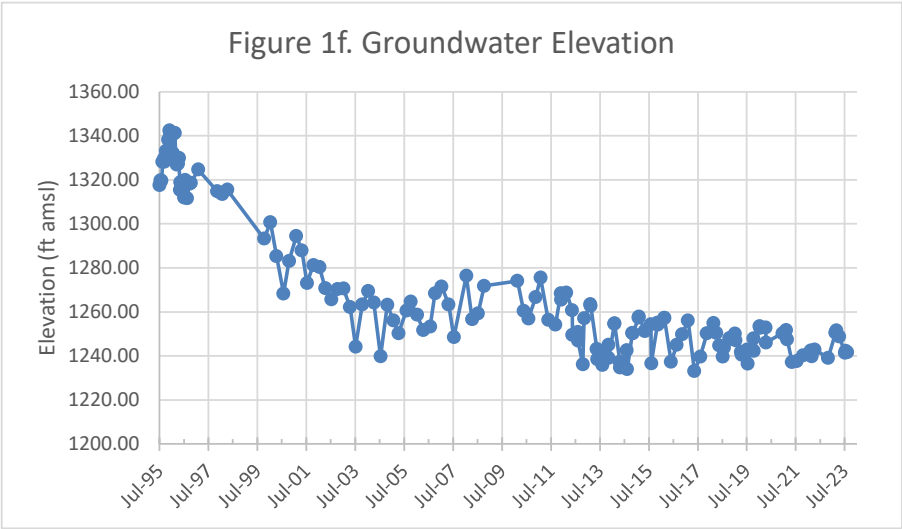
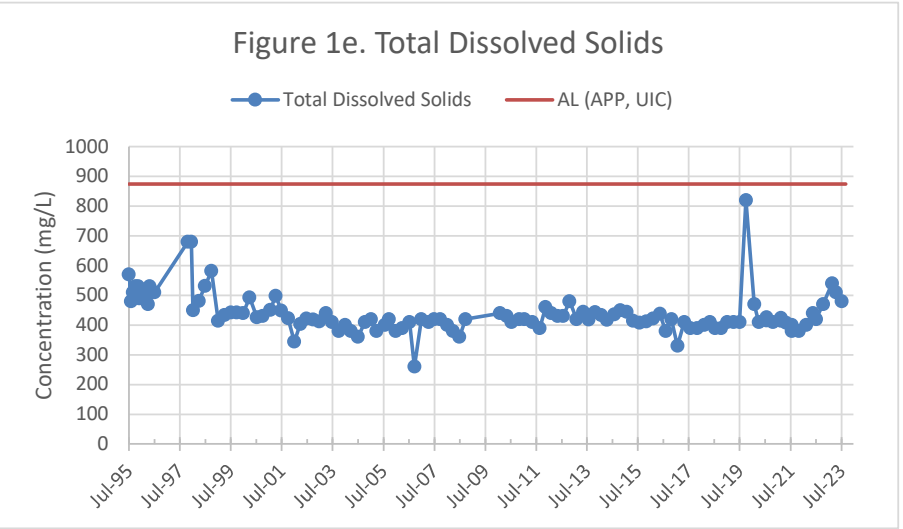
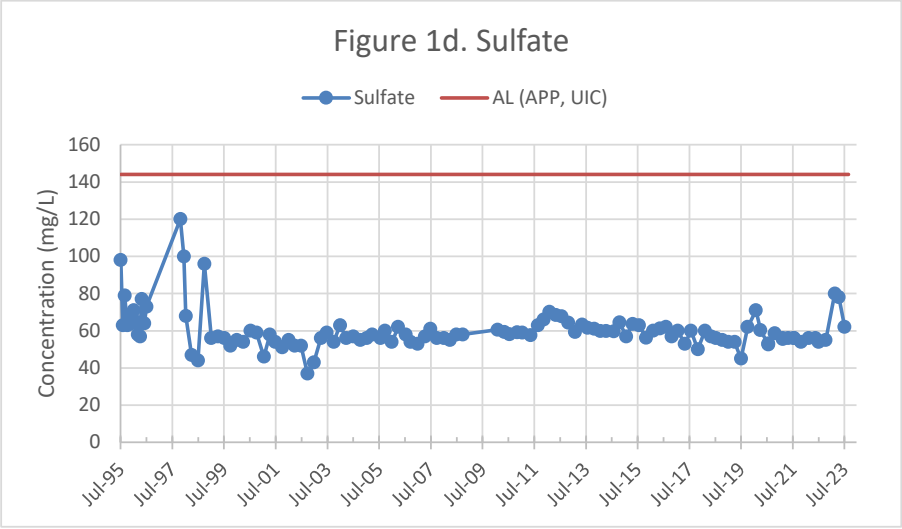
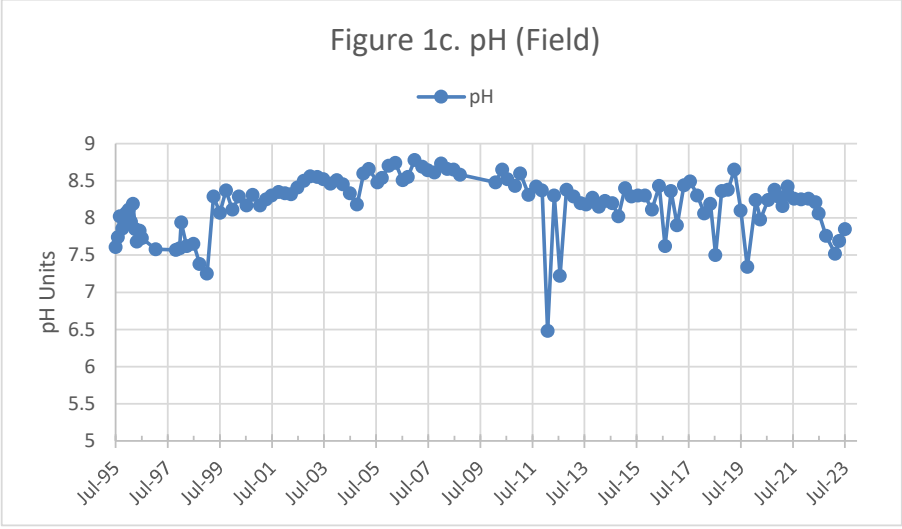
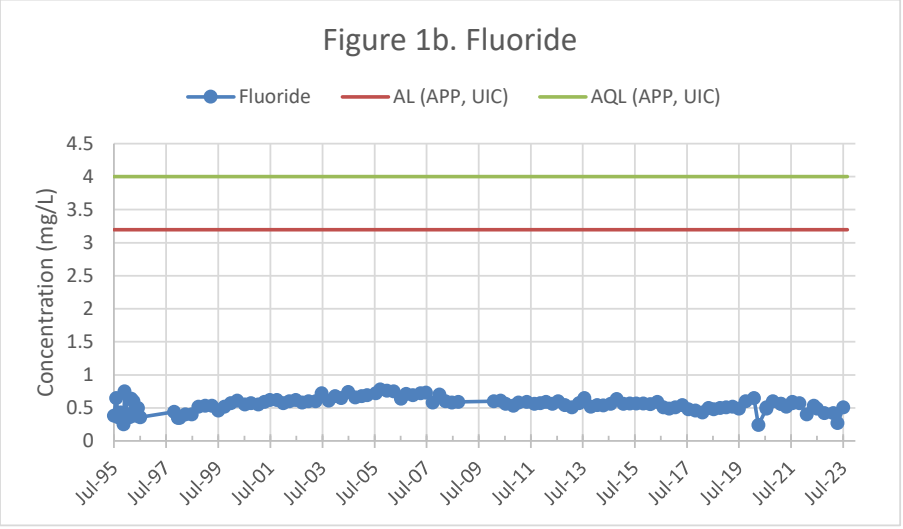
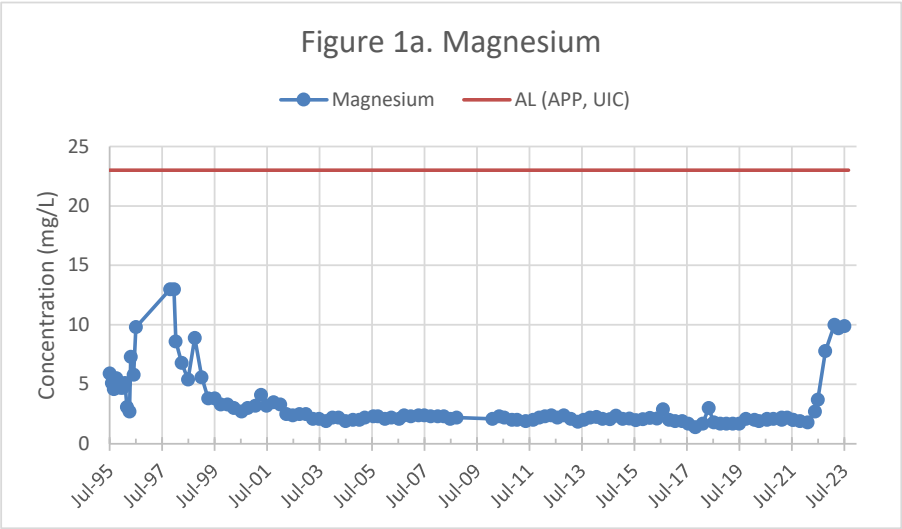
6B. Well Details and Water Level Elevations

6C. Groundwater Monitoring Summary

ATTACHMENT 6A

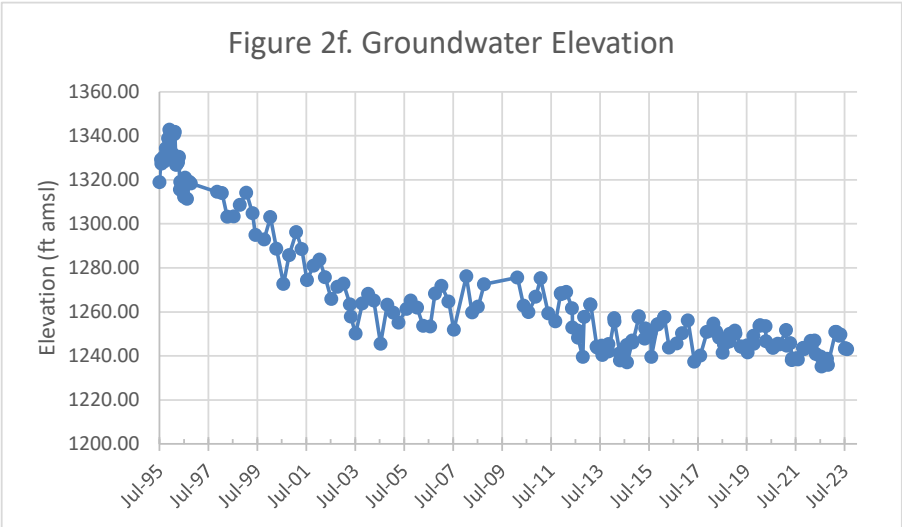
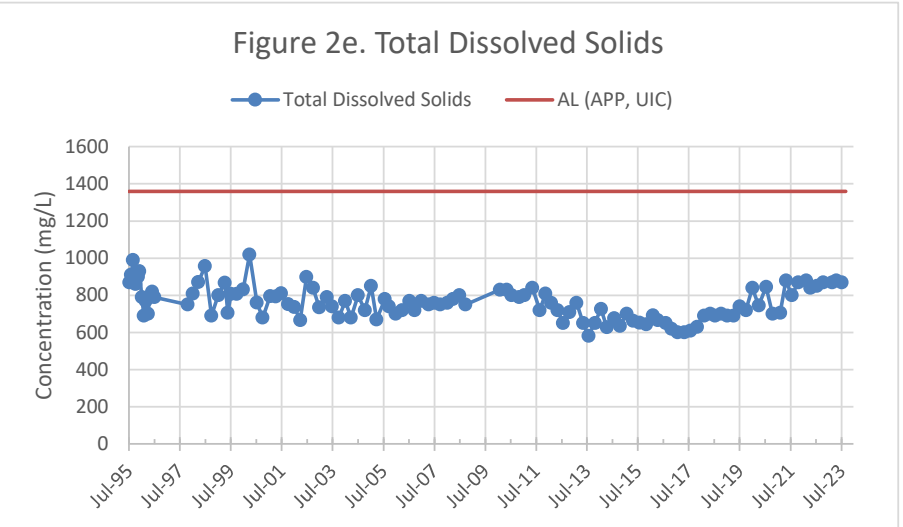
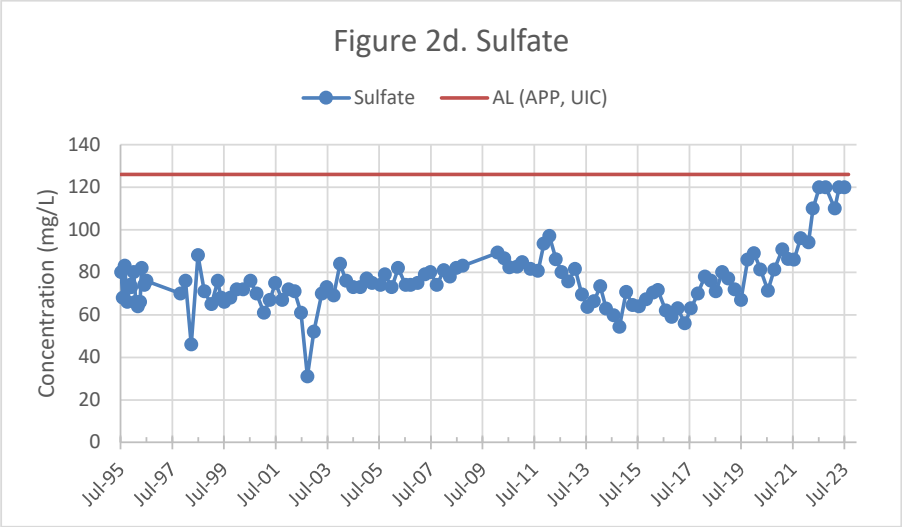
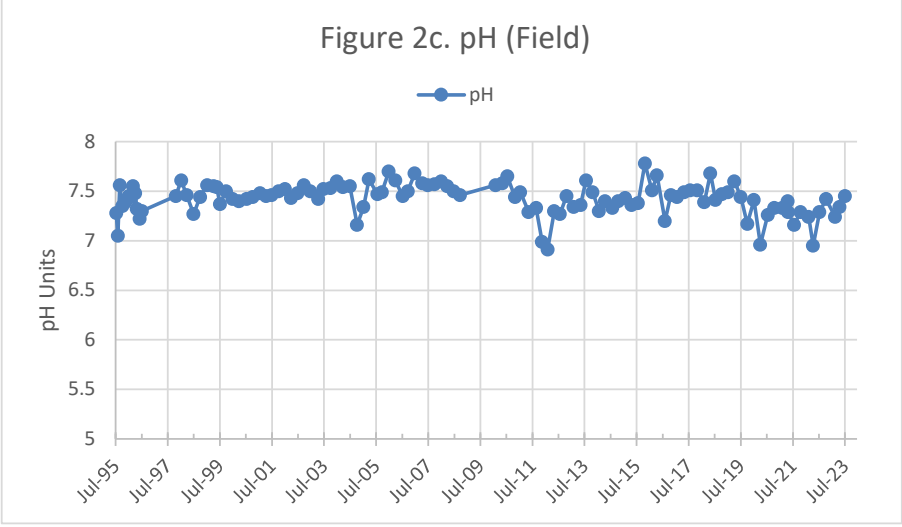
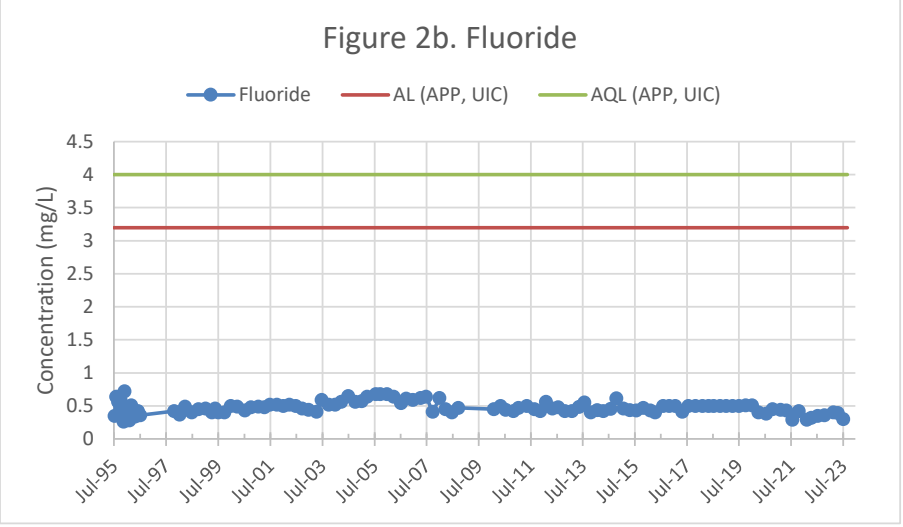
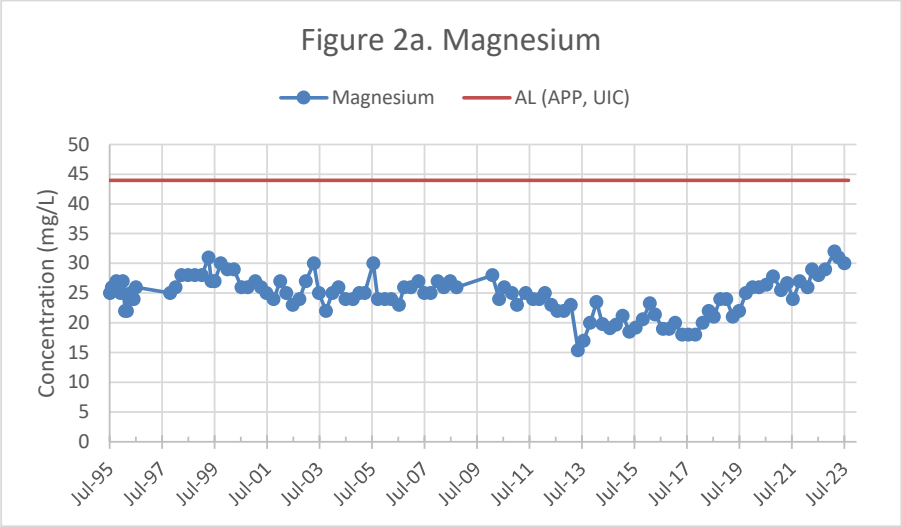
Quarterly Concentration Graphs

M14-GL QUARTERLY CONCENTRATION GRAPHS



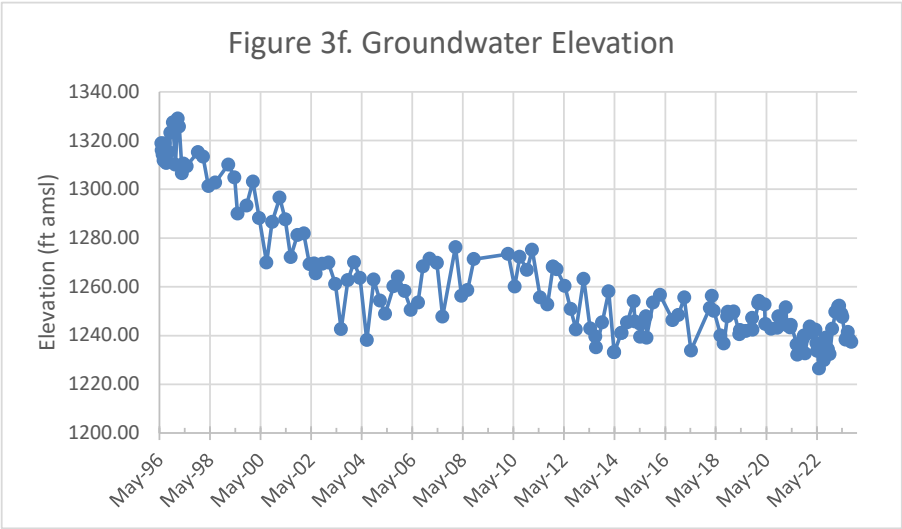
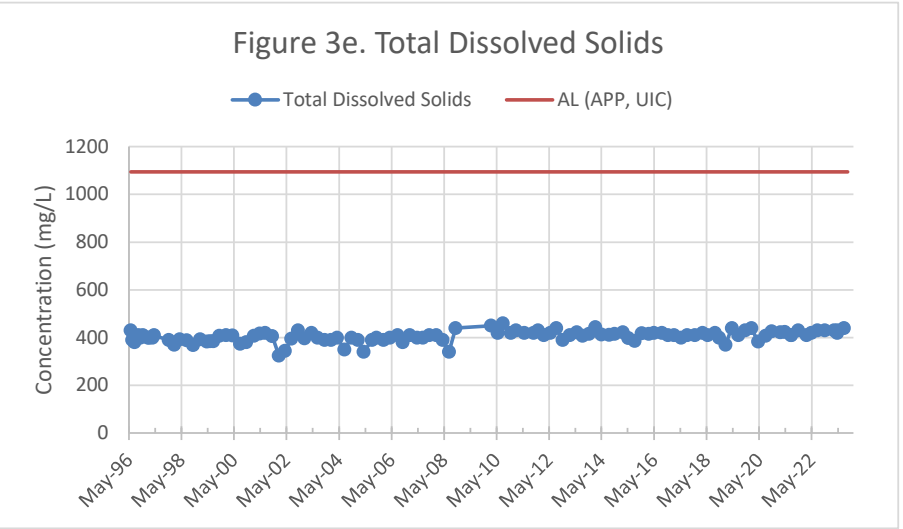
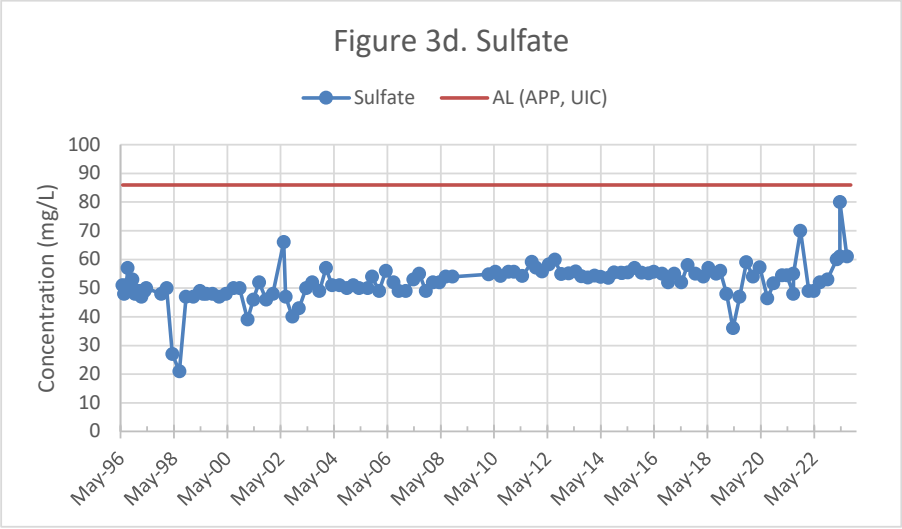
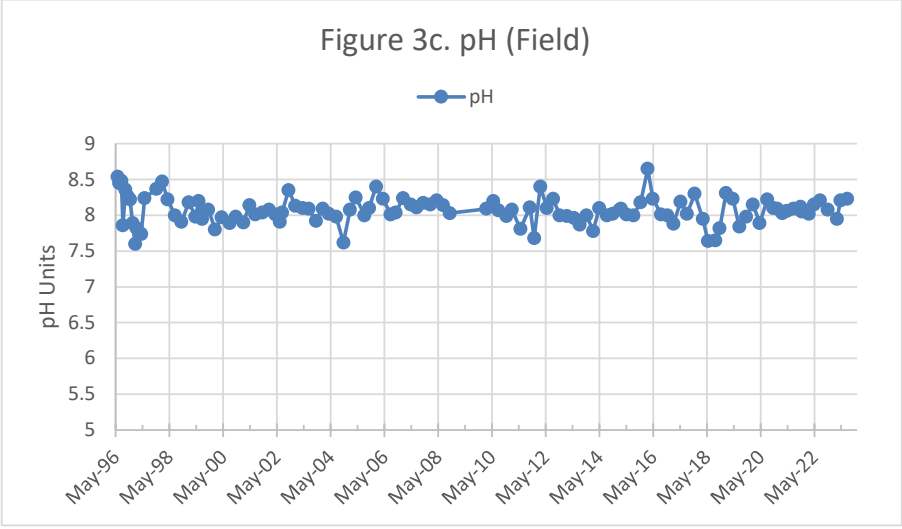
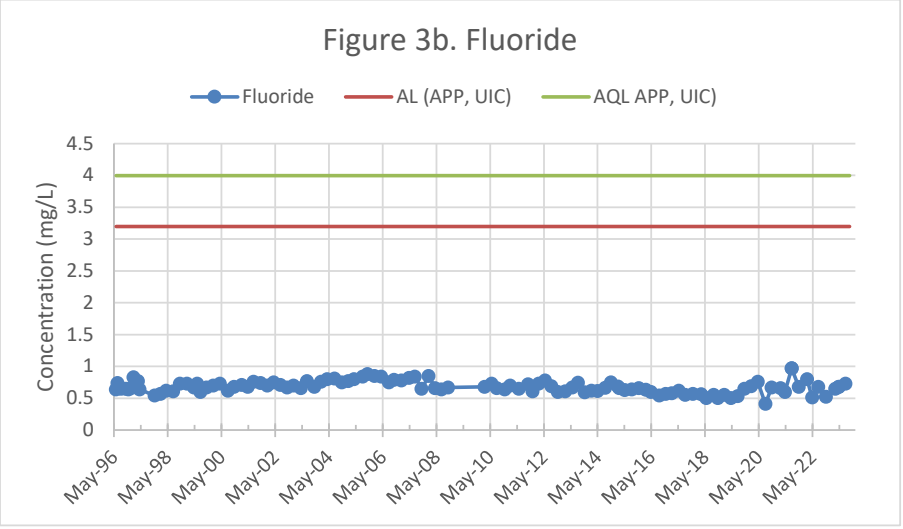
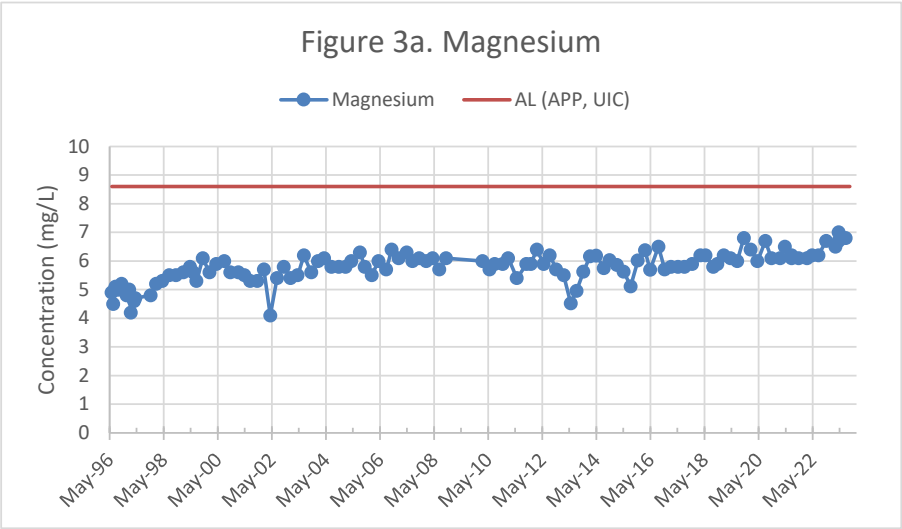
Notes:
AL = Alert level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M15-GU QUARTERLY CONCENTRATION GRAPHS



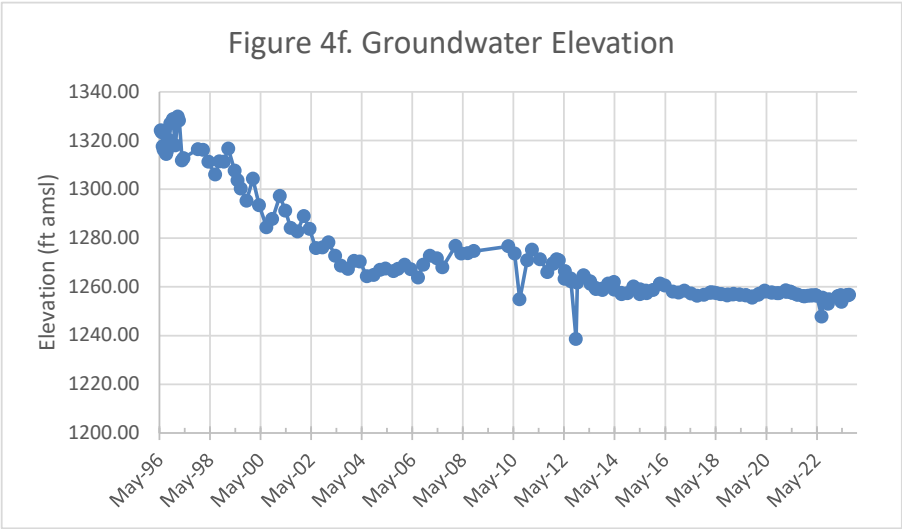
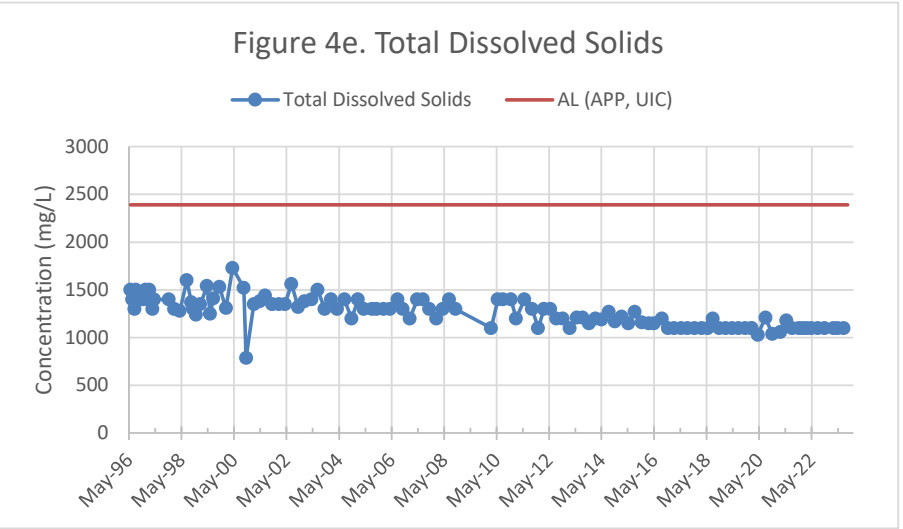
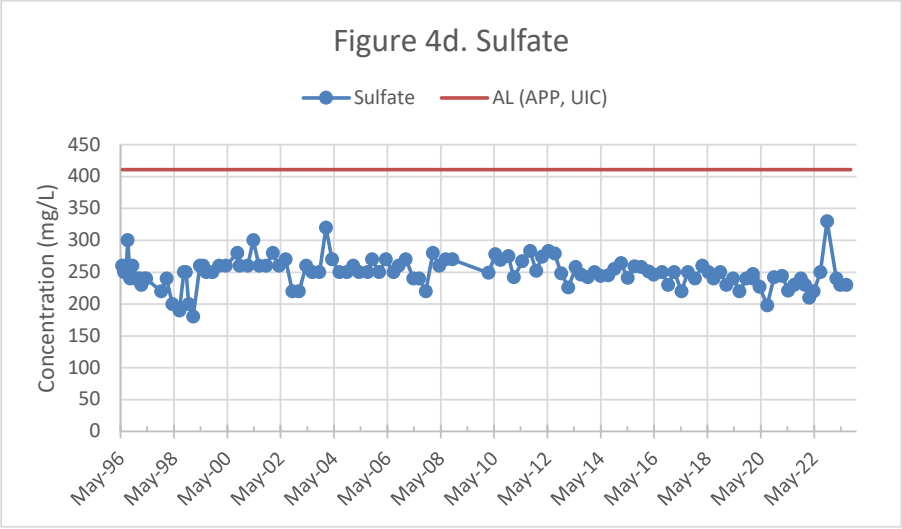
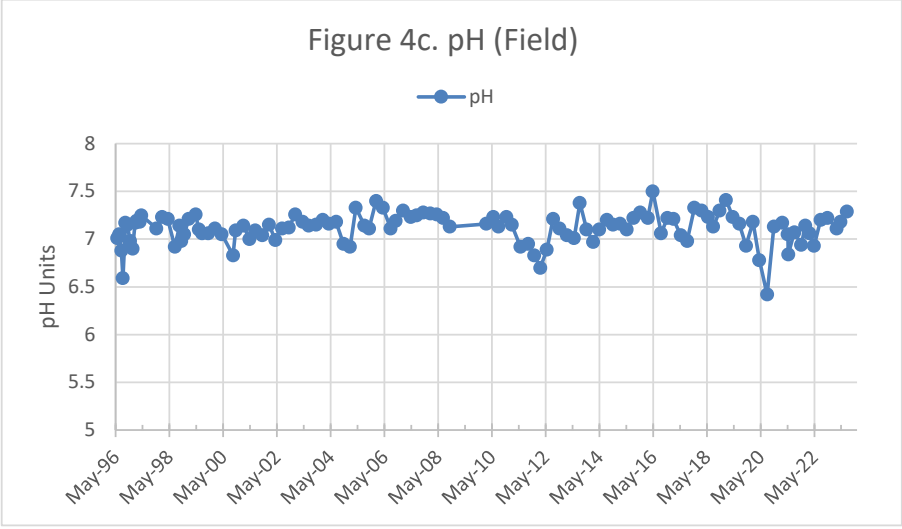
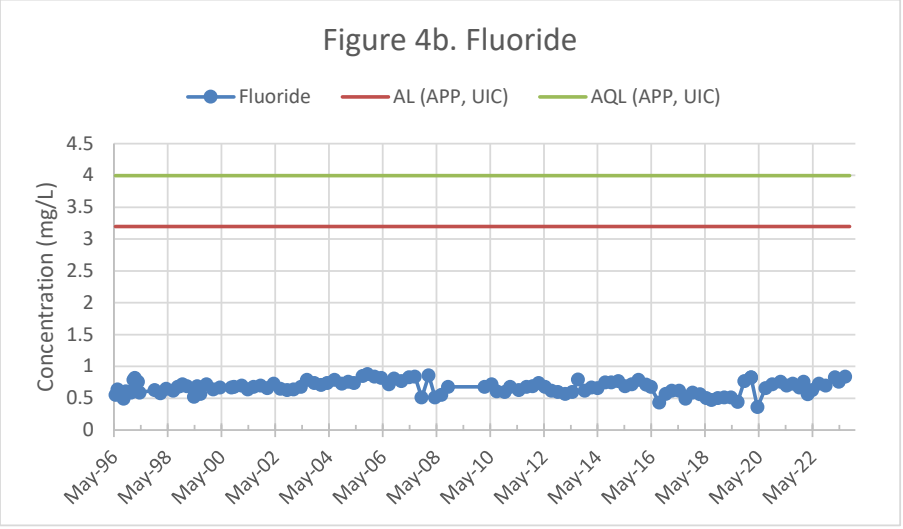
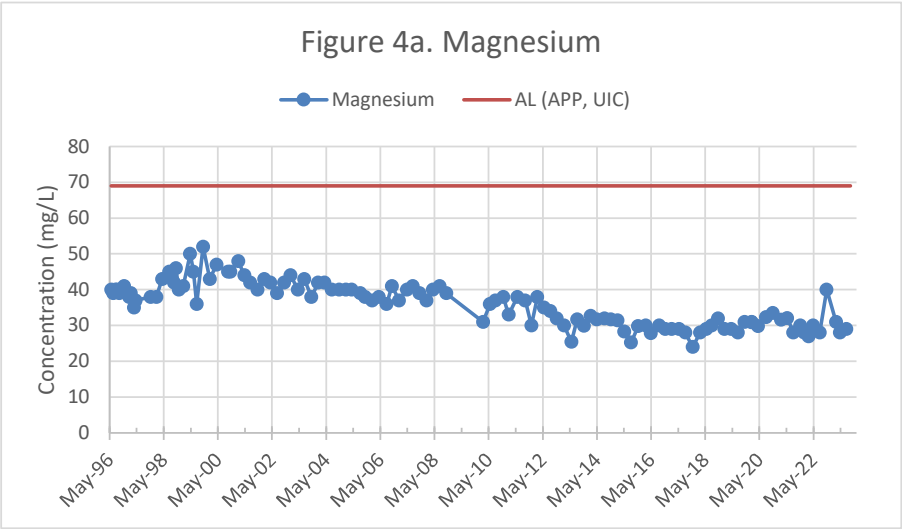
Notes:
AL = Alert level
AQL = Aquifer Quality Limit
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UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M22-O QUARTERLY CONCENTRATION GRAPHS



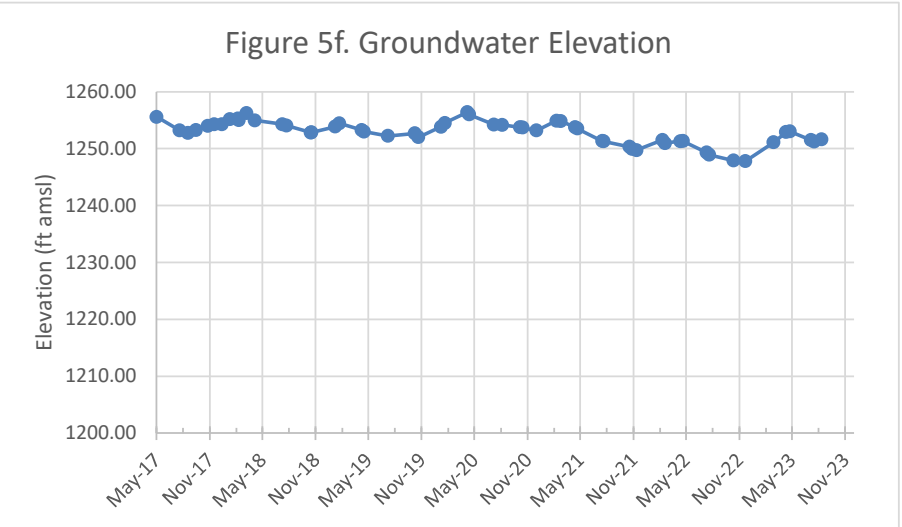
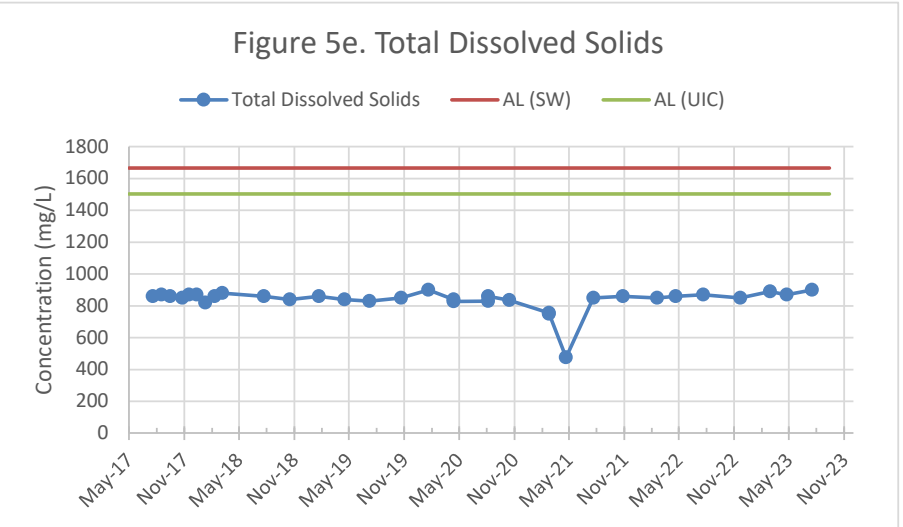
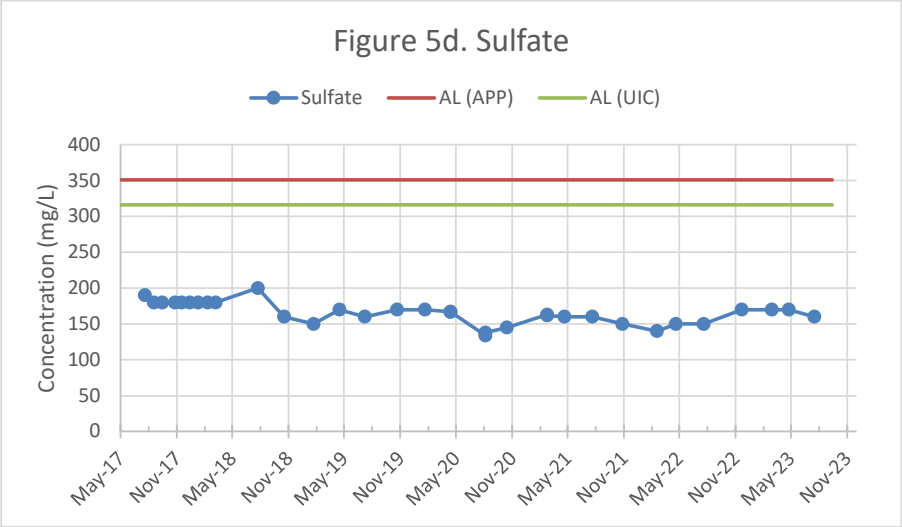
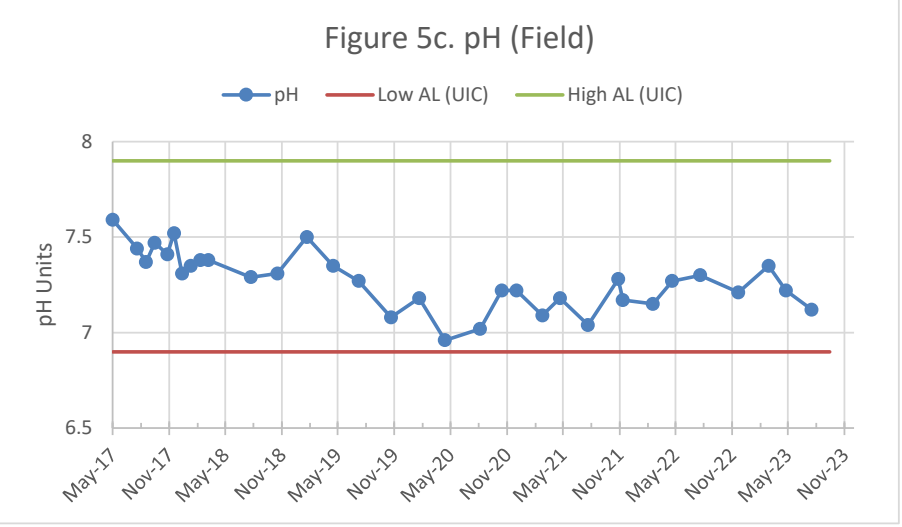
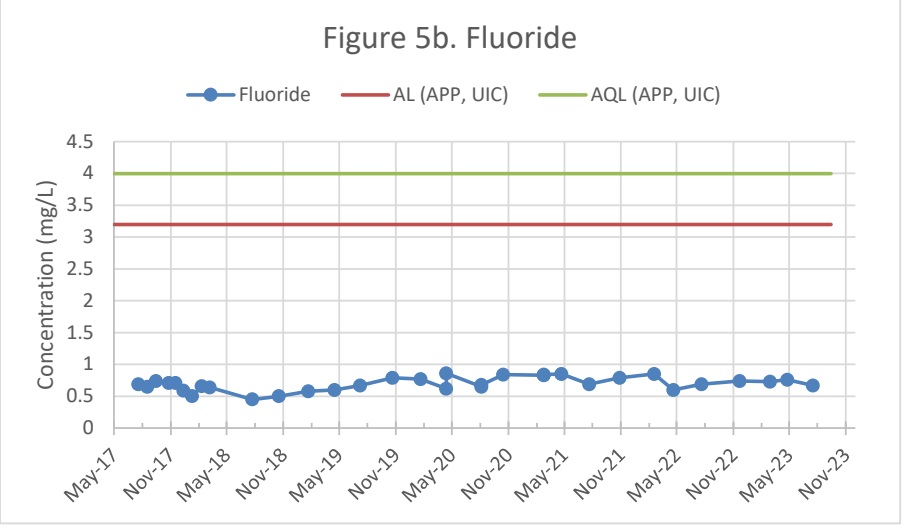
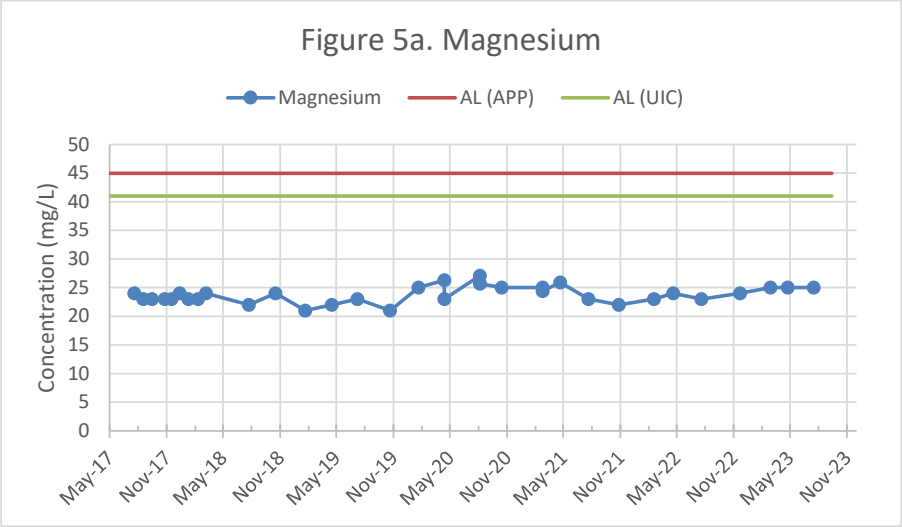
Notes:
Historical outliers removed from graphs for visual representation, but are maintained in the dataset.
AL = Alert level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M23-UBF QUARTERLY CONCENTRATION GRAPHS



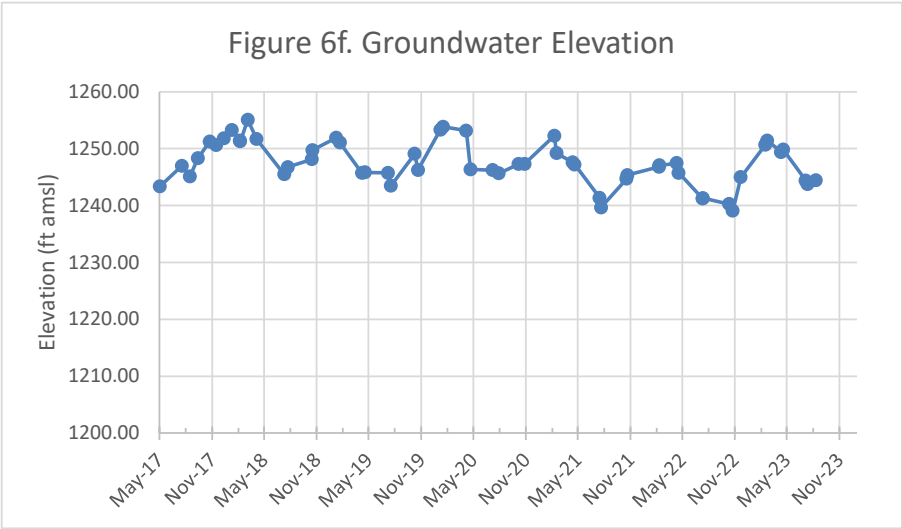
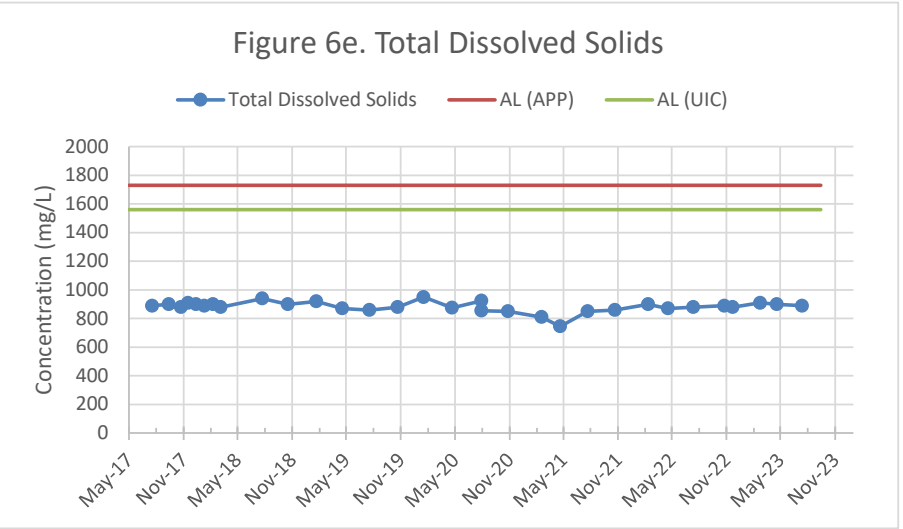
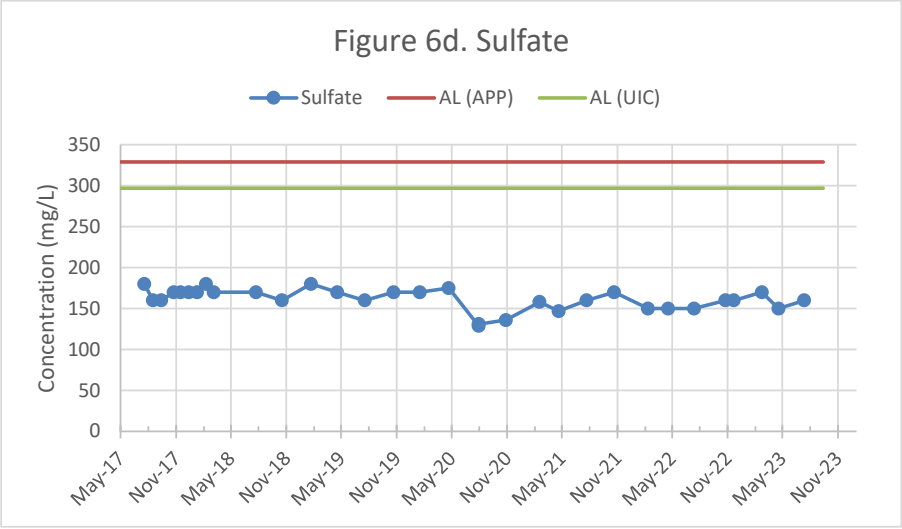
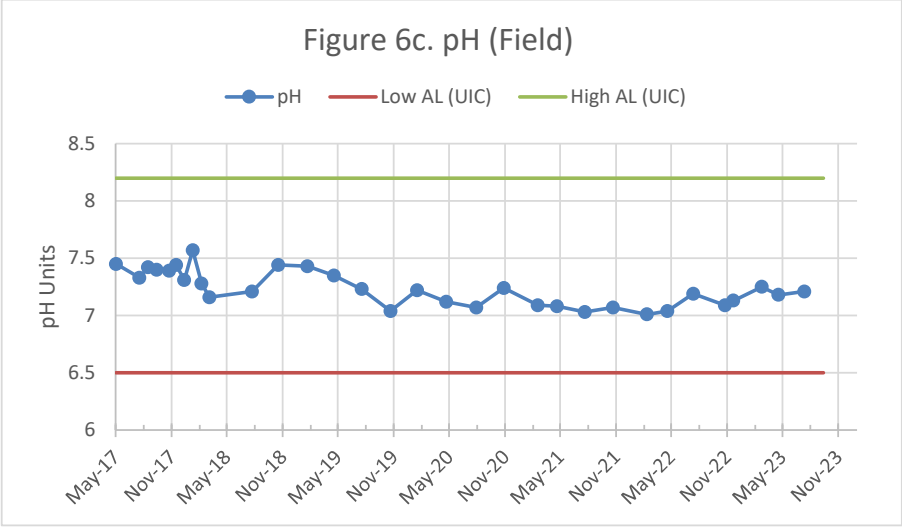
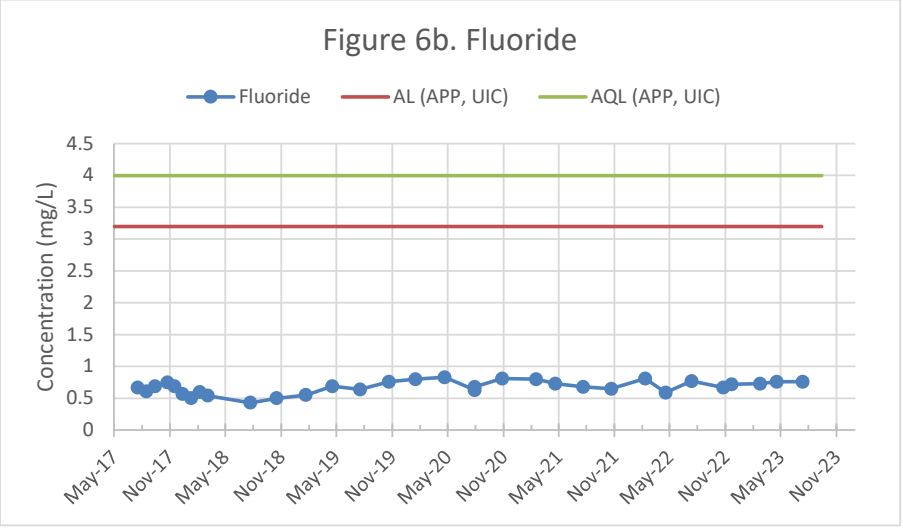
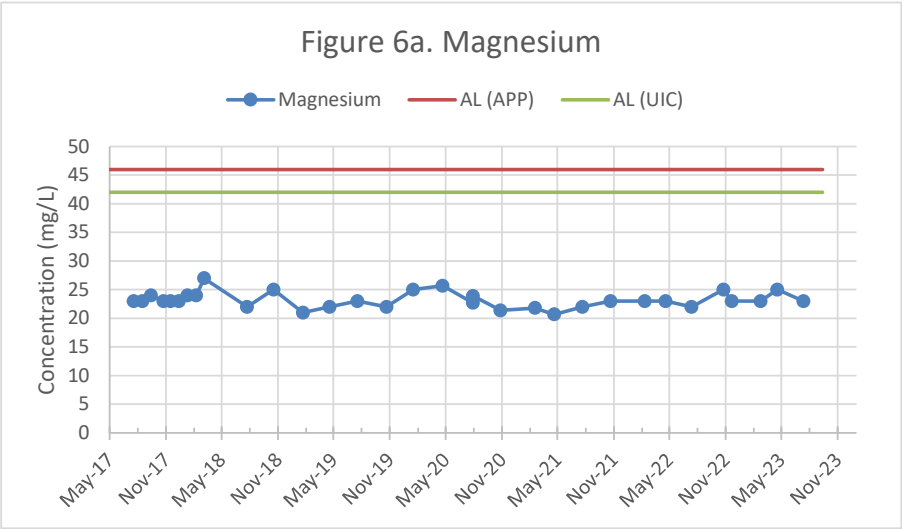
Notes:
AL = Alert level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M52-UBF QUARTERLY CONCENTRATION GRAPHS



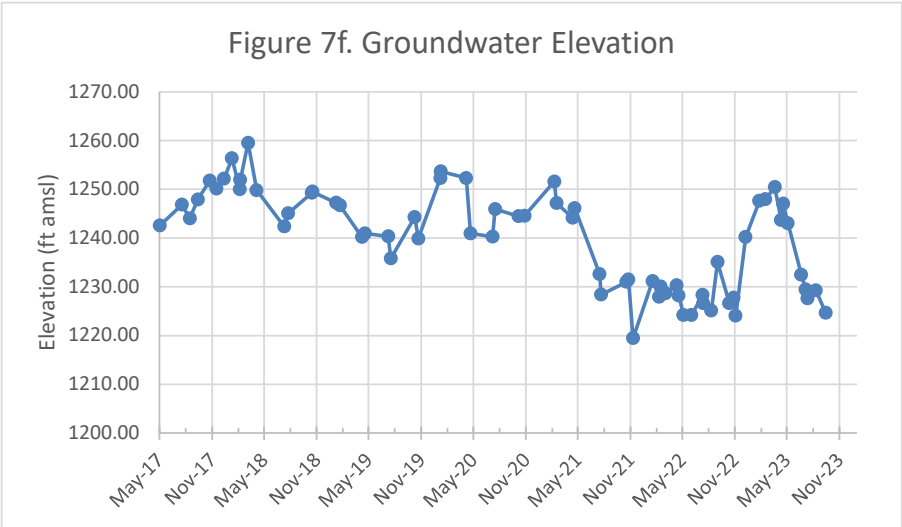
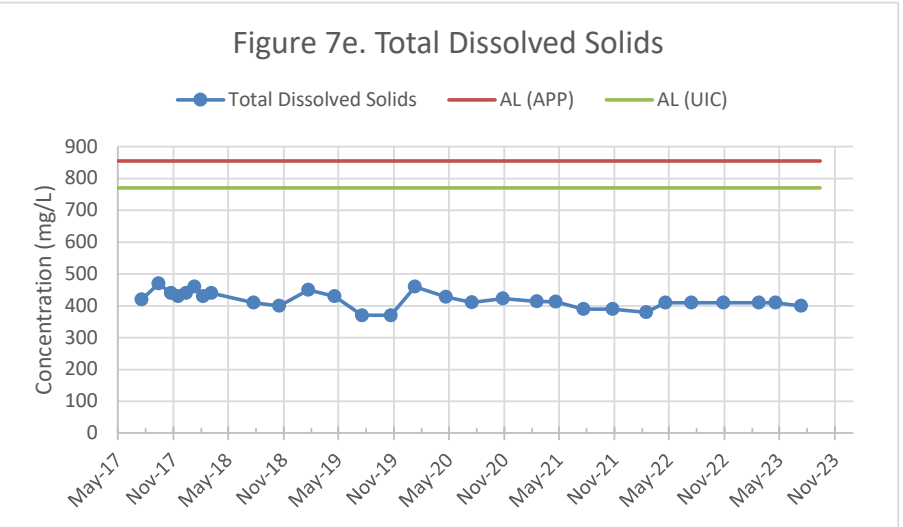
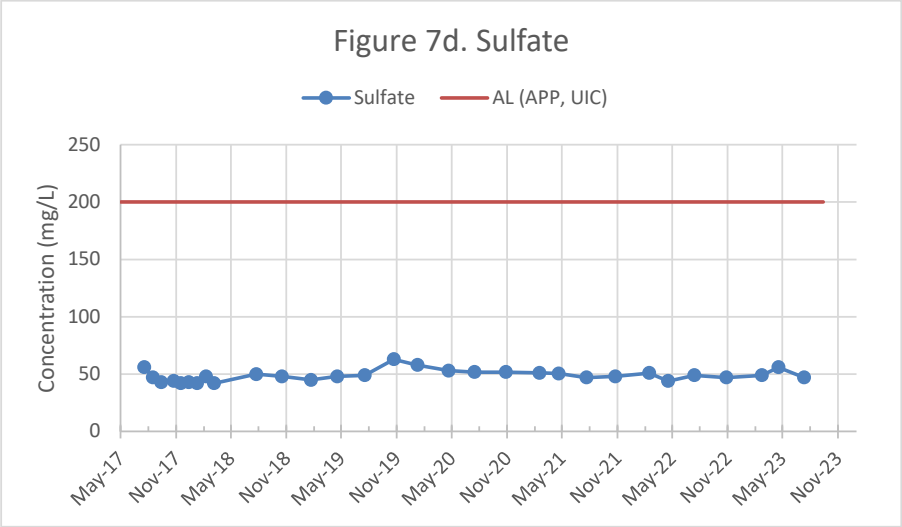
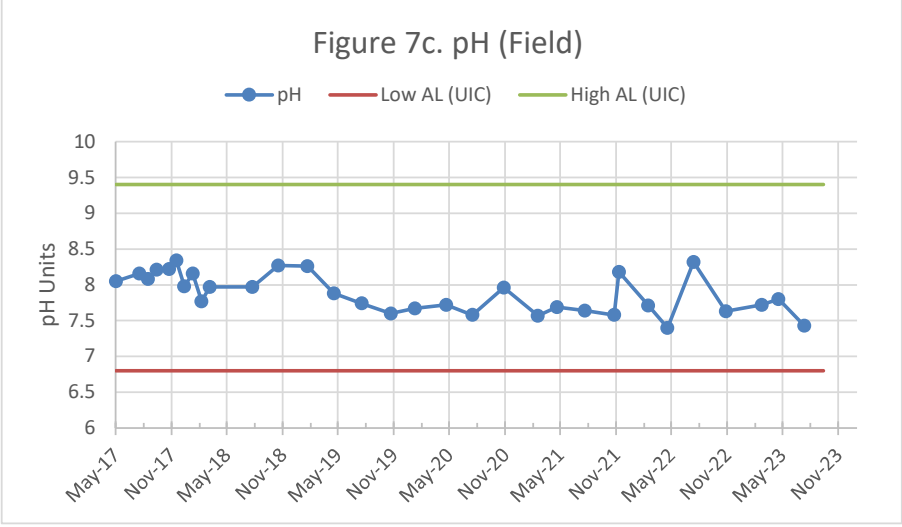
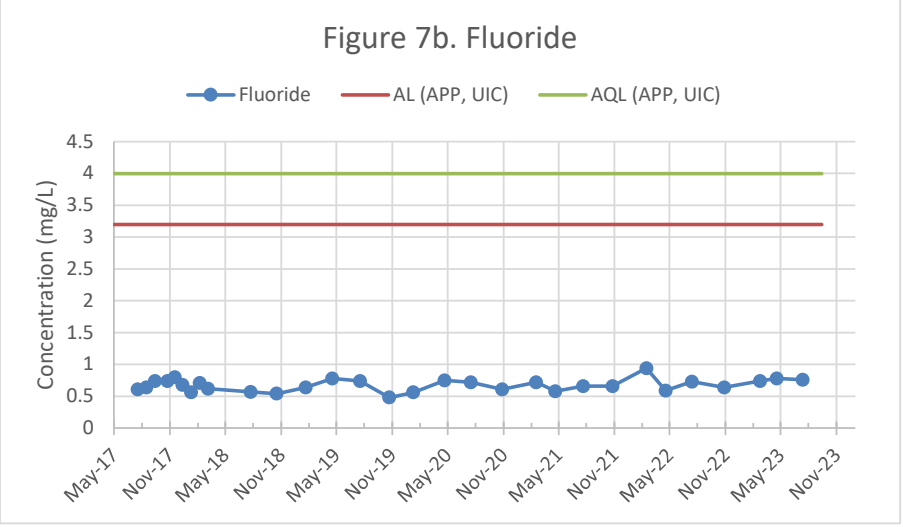
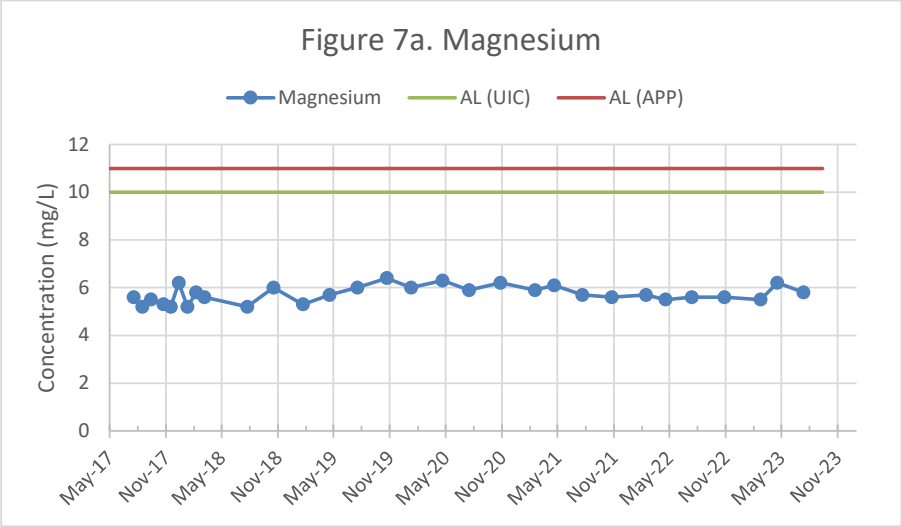
Notes:
AL = Alert level
AQL = Aquifer Quality Limit
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UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M54-LBF QUARTERLY CONCENTRATION GRAPHS



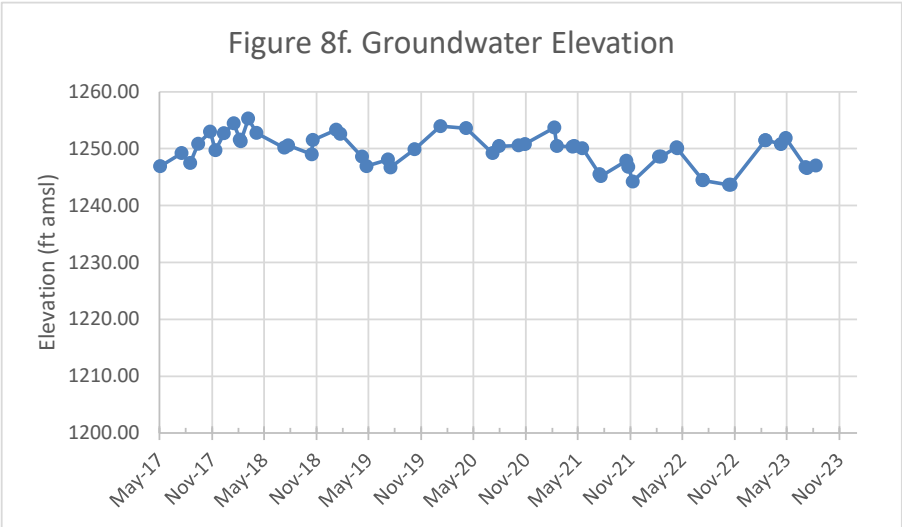
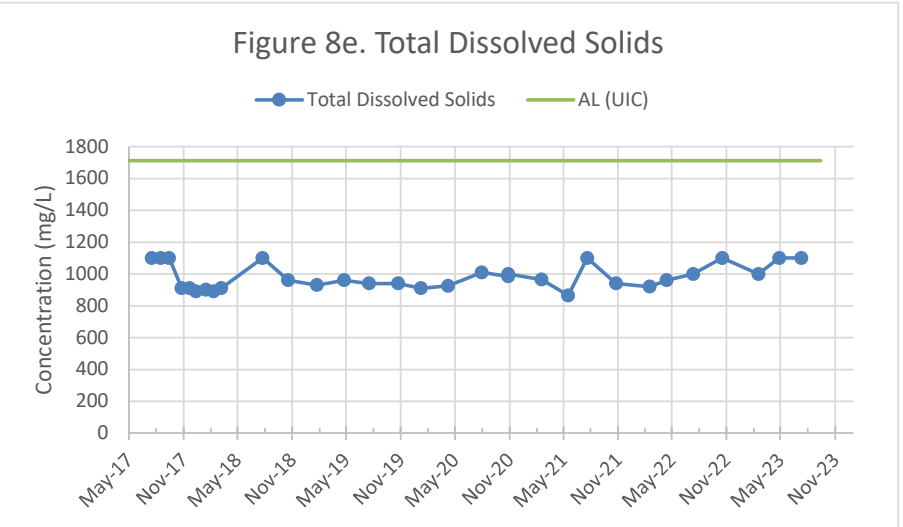
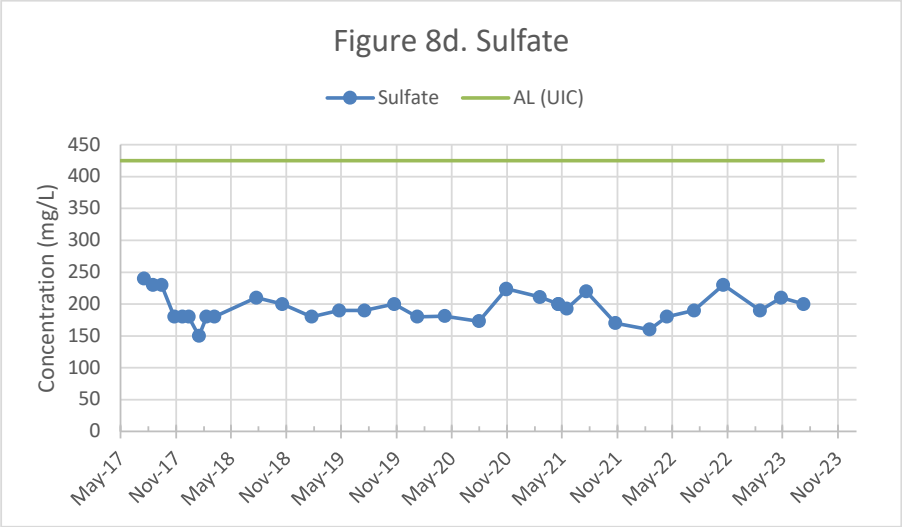
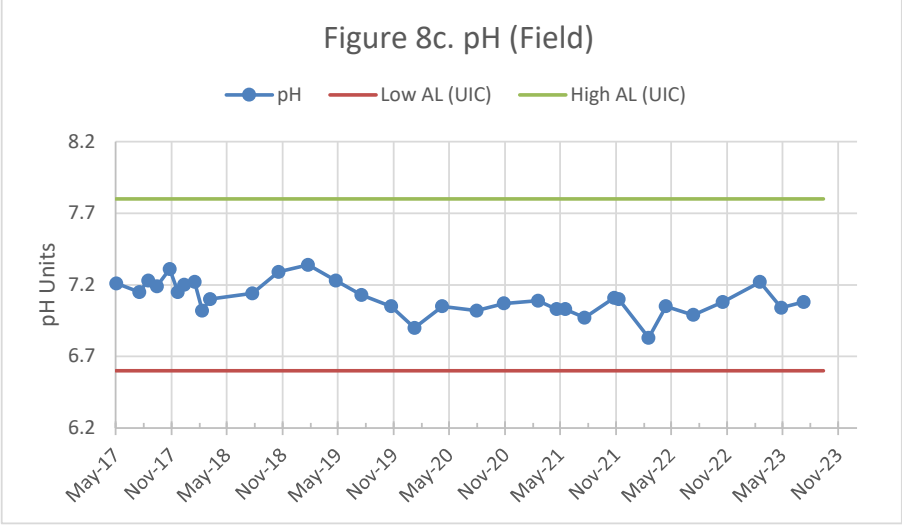
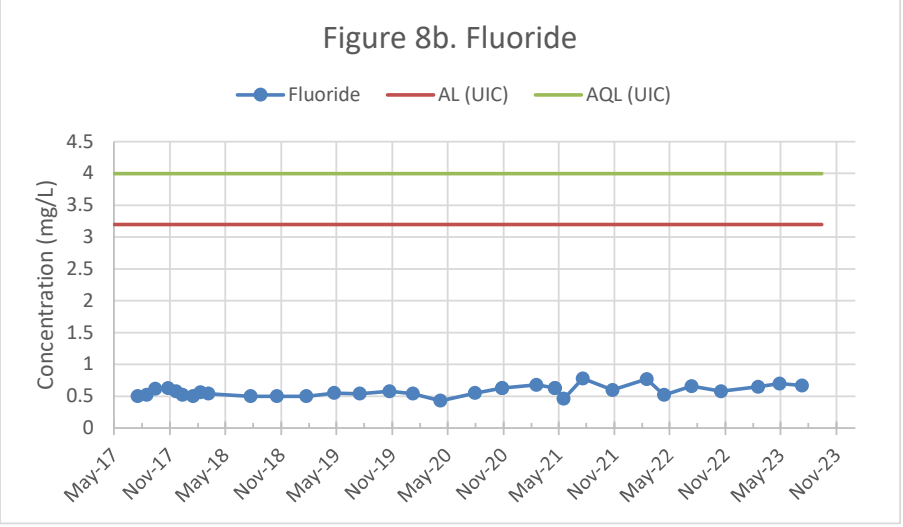
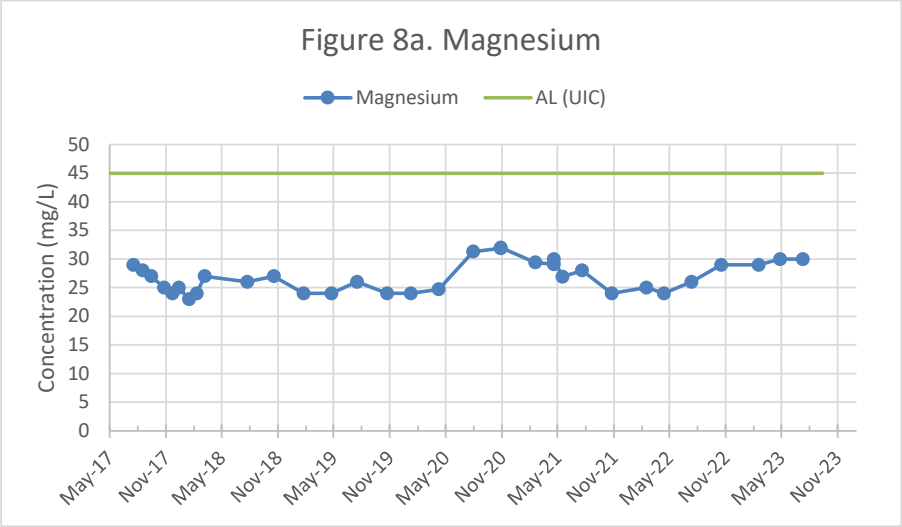
Notes:
Historical outliers removed from graphs for visual representation, but are maintained in the dataset.
AL = Alert level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M54-O QUARTERLY CONCENTRATION GRAPHS



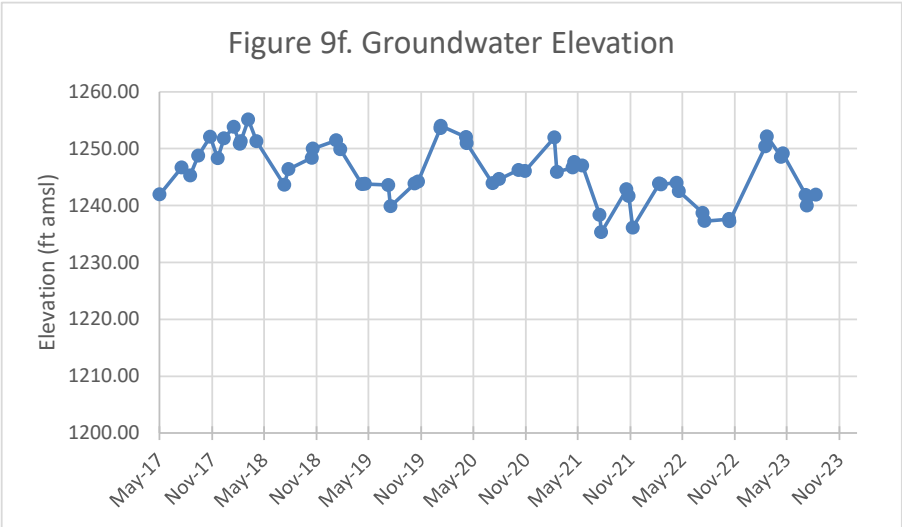
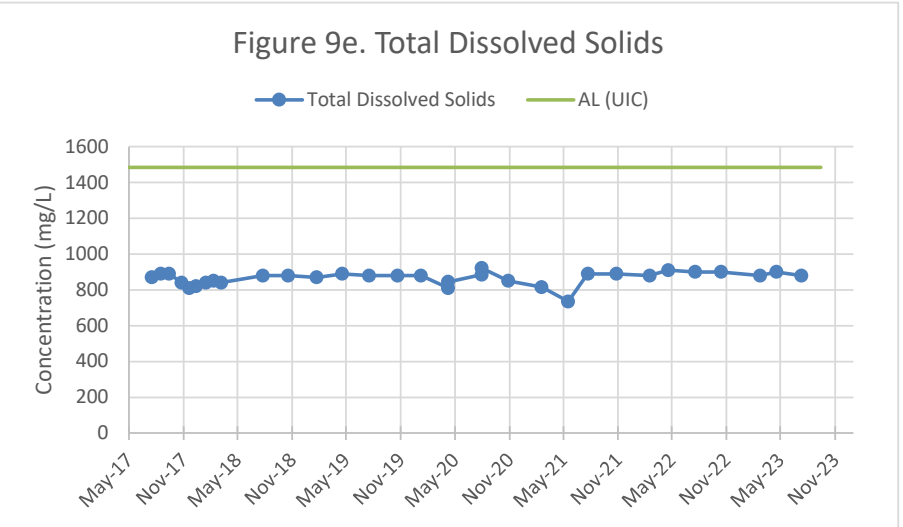
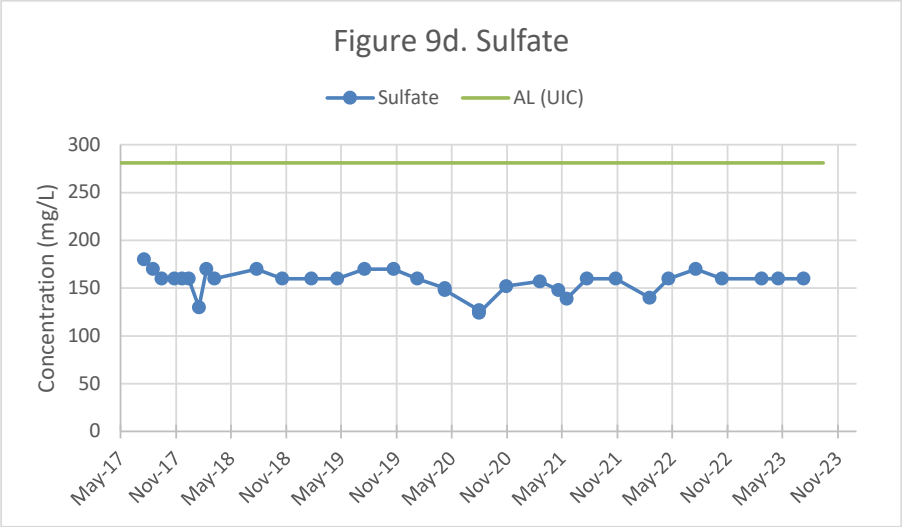
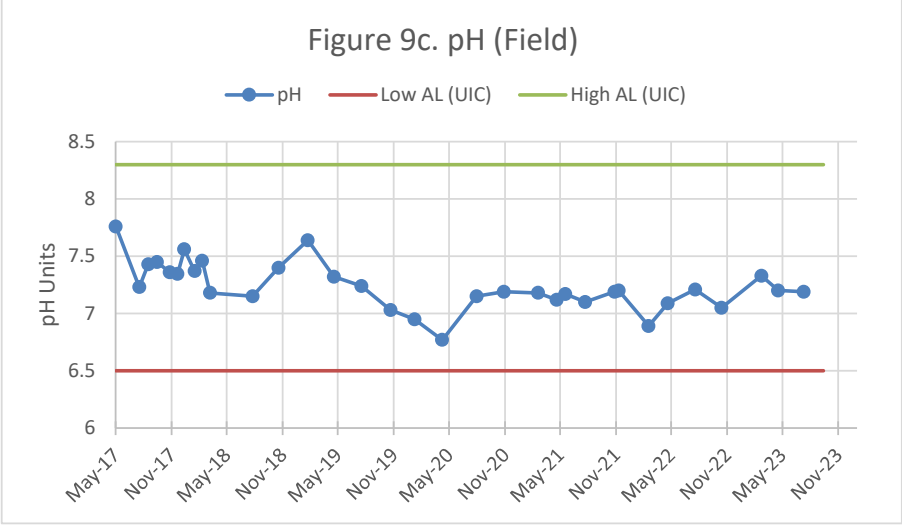
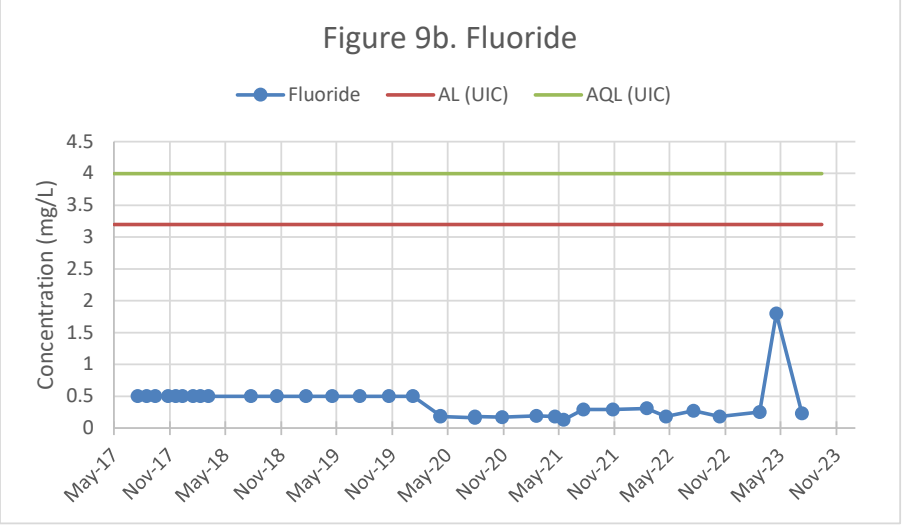
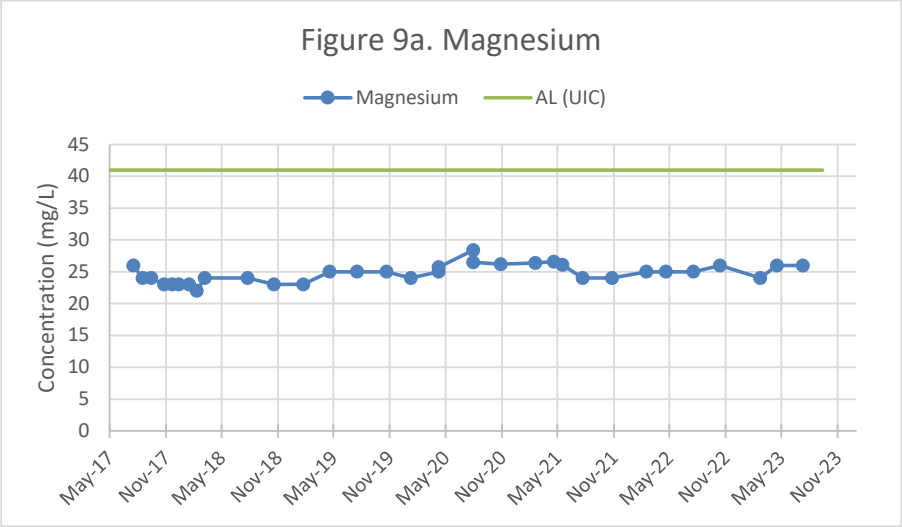
Notes:
AL = Alert level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
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M55-UBF QUARTERLY CONCENTRATION GRAPHS



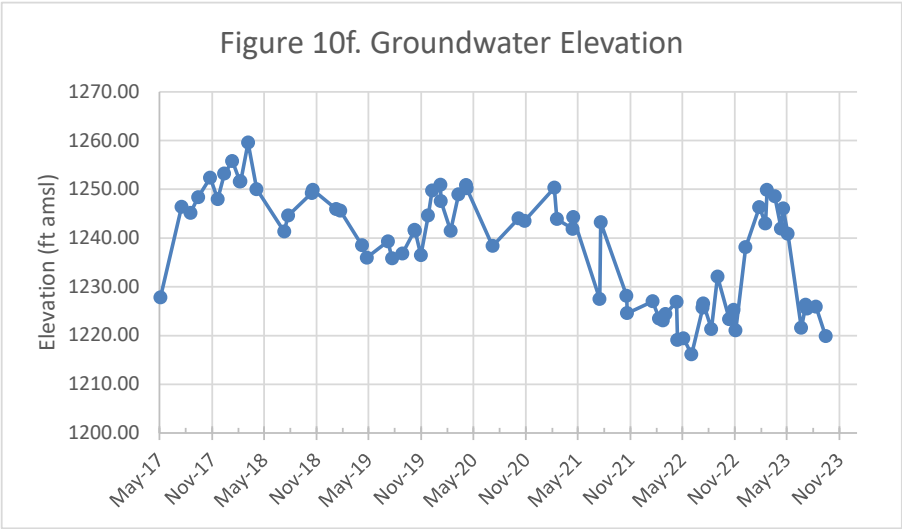
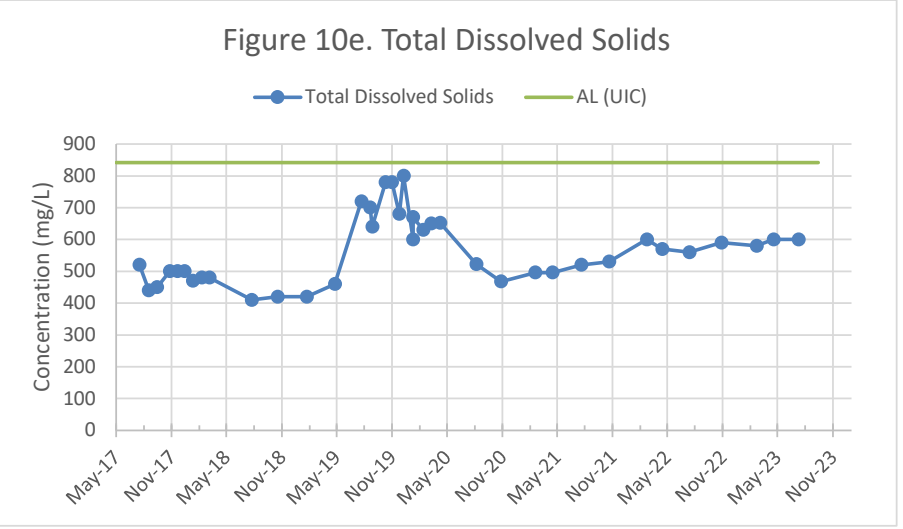
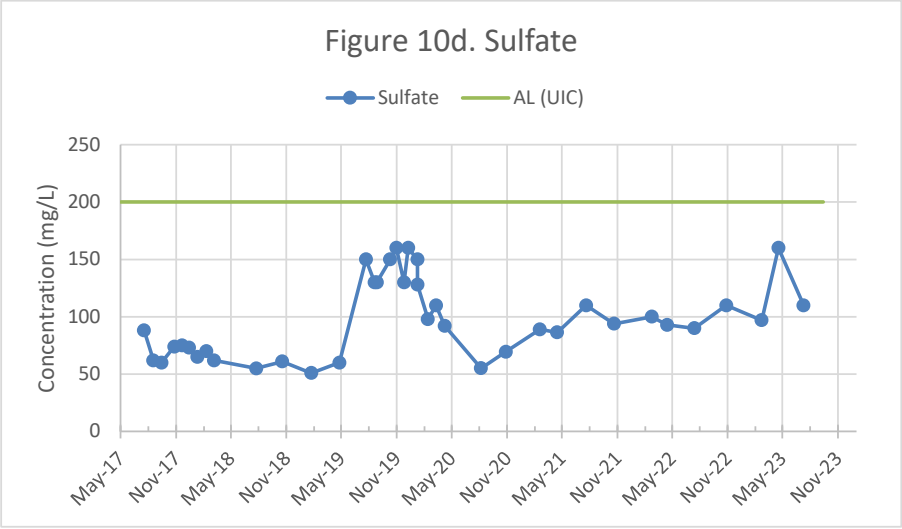
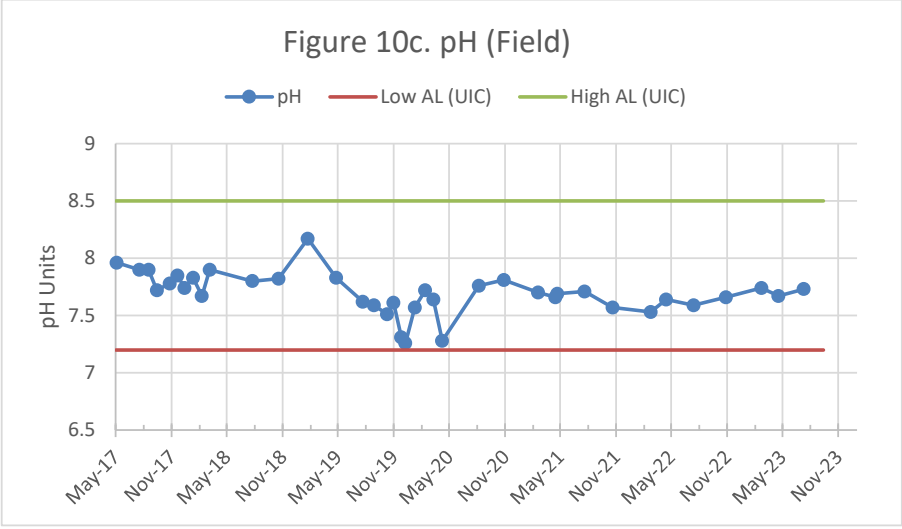
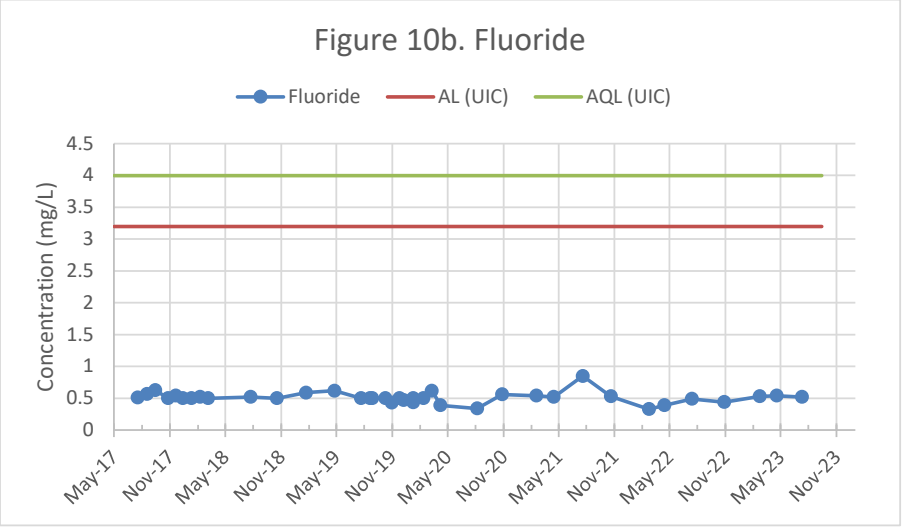
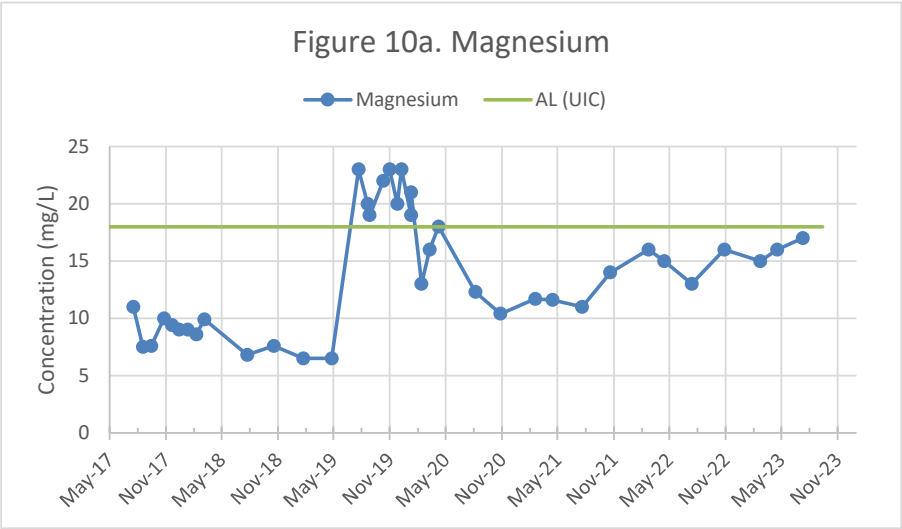
Notes:
AL = Alert level
AQL = Aquifer Quality Limit
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M56-LBF QUARTERLY CONCENTRATION GRAPHS



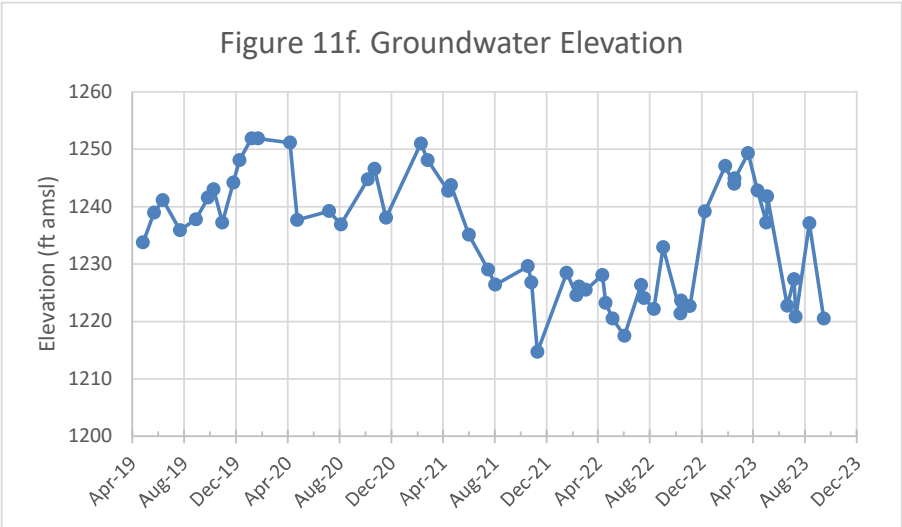
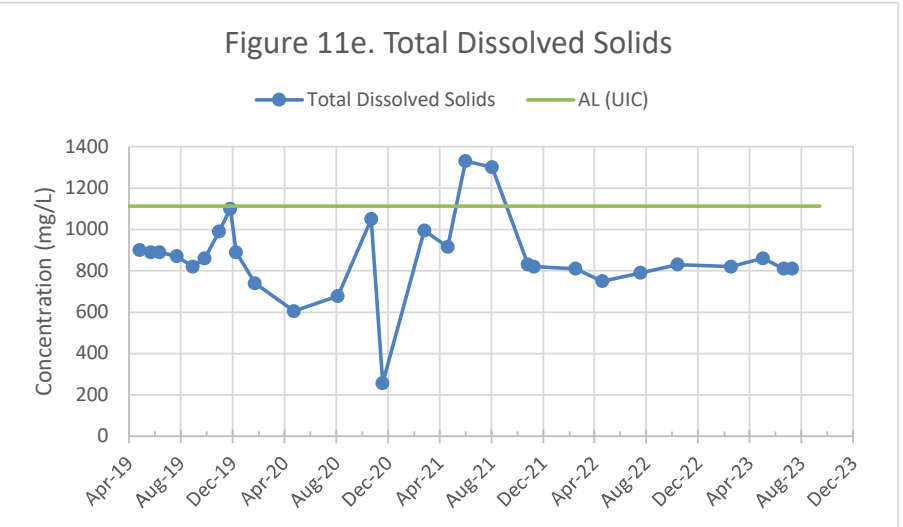
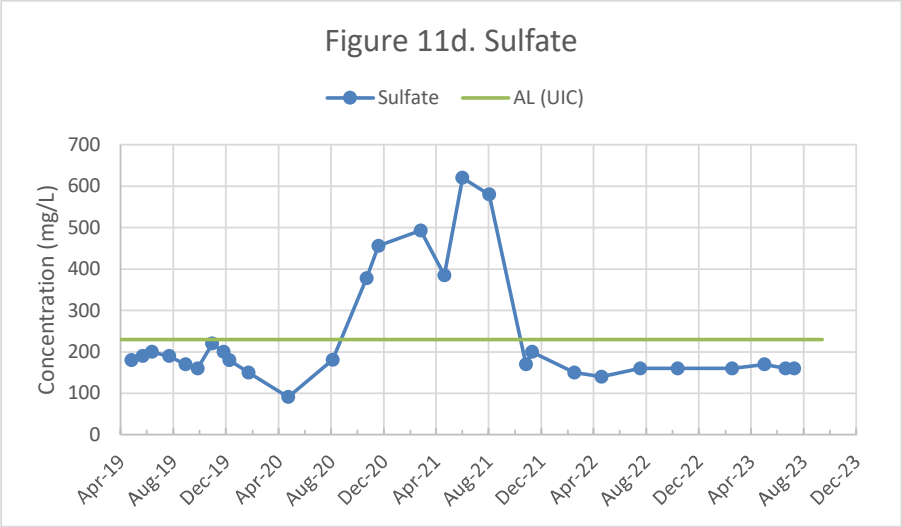
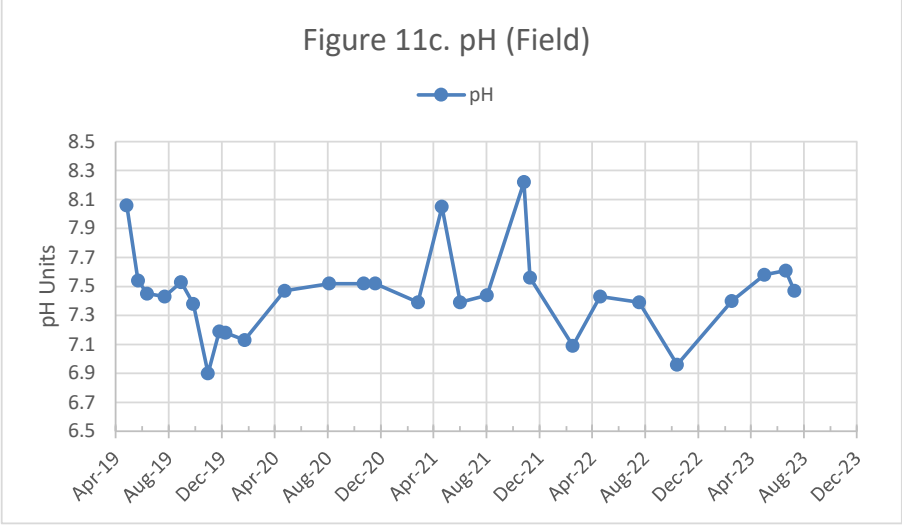
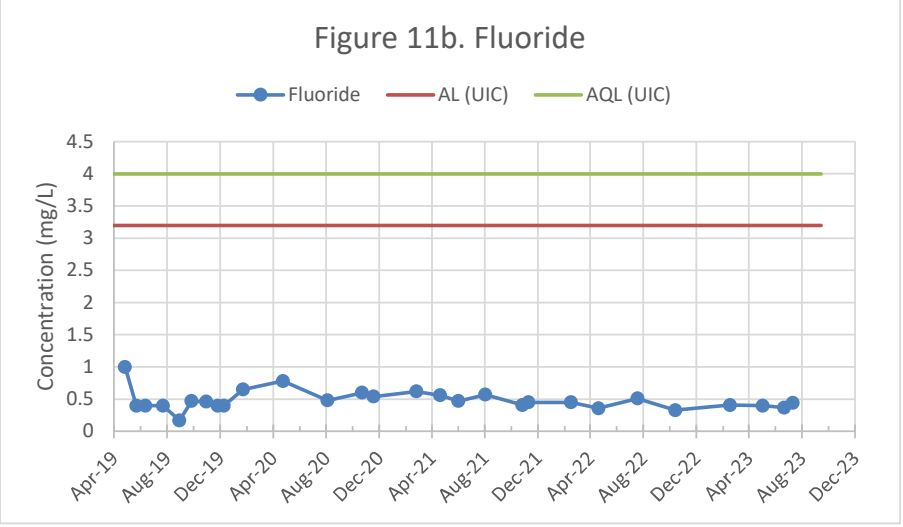
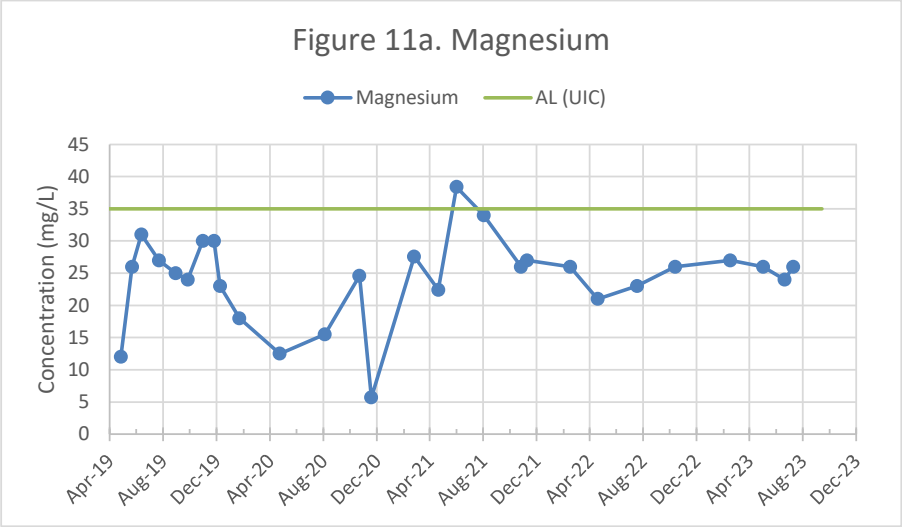
Notes:
AL = Alert level
AQL = Aquifer Quality Limit
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M57-O QUARTERLY CONCENTRATION GRAPHS



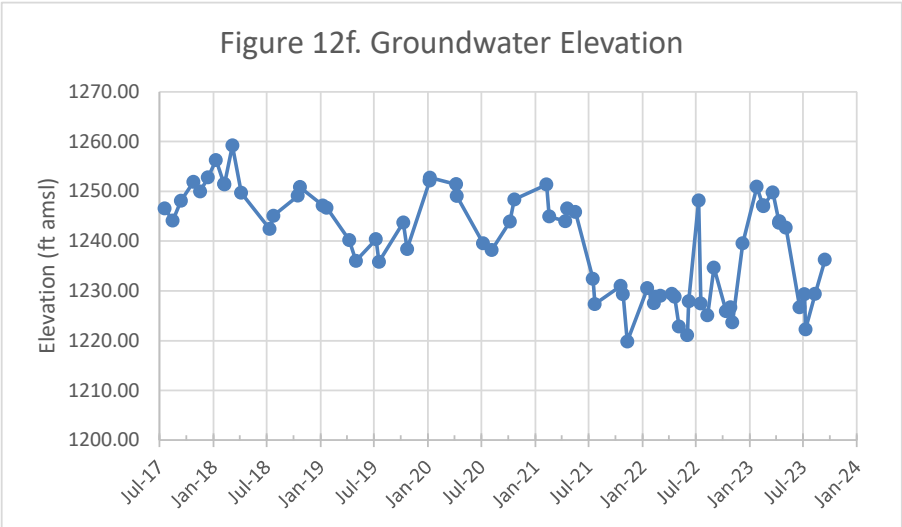
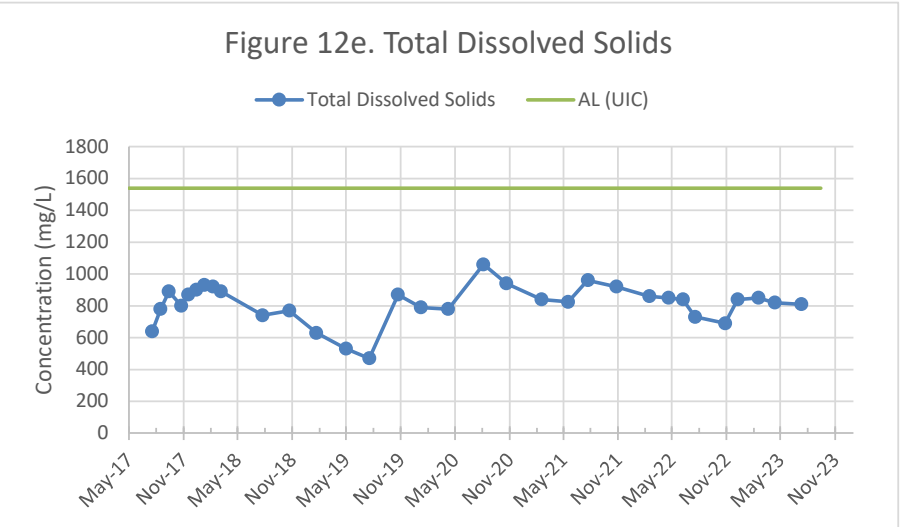
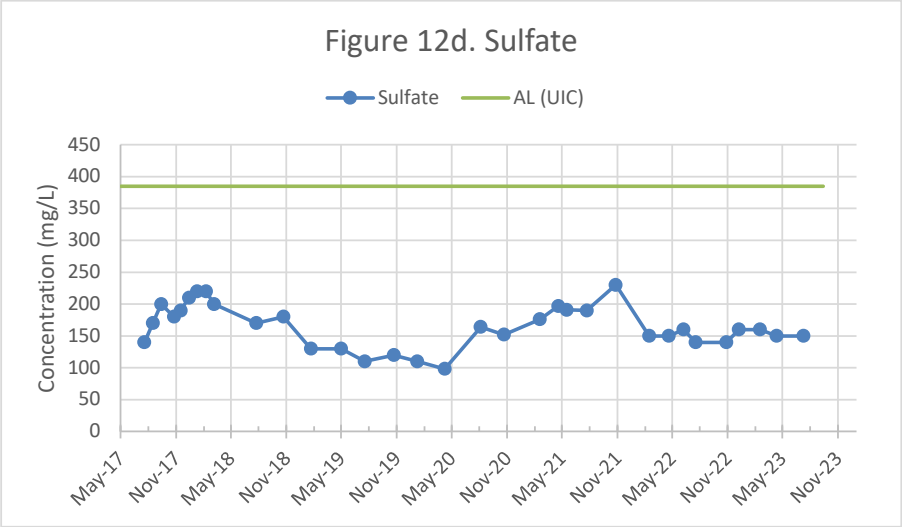
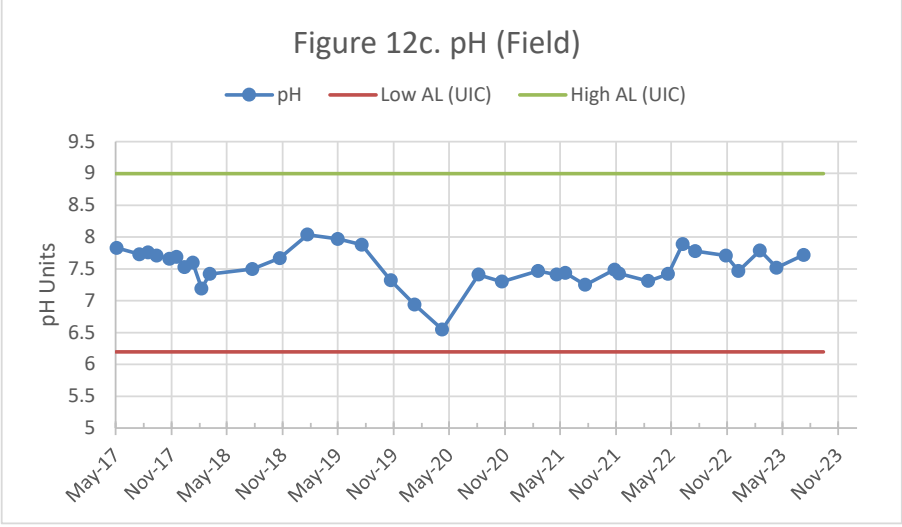
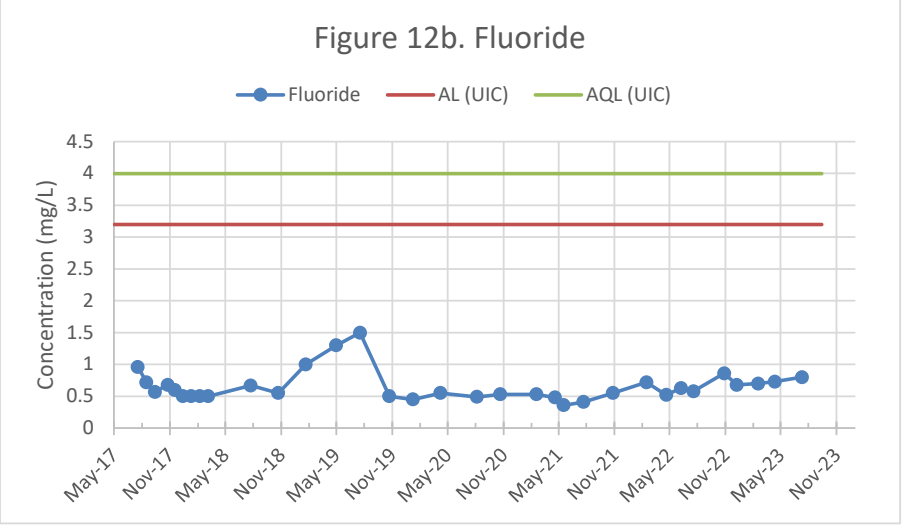
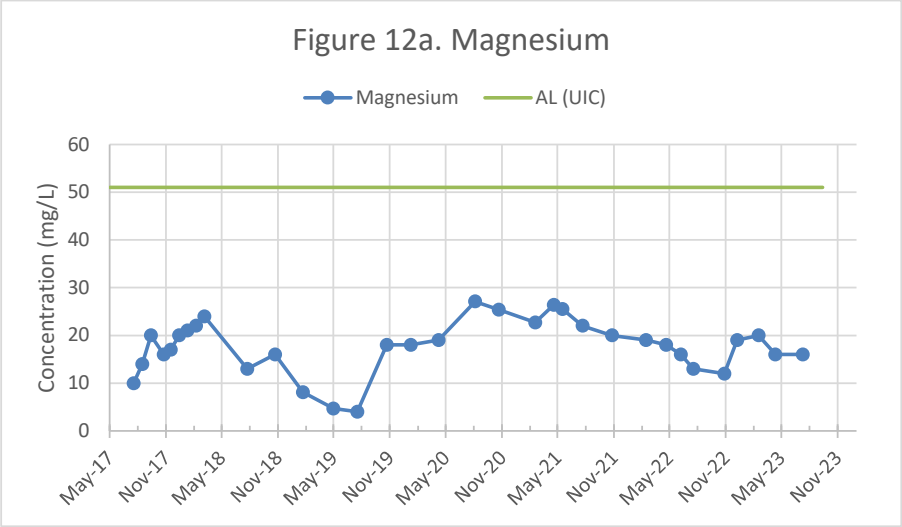
Notes:
AL = Alert level
AQL = Aquifer Quality Limit
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M57R-O QUARTERLY CONCENTRATION GRAPHS



Notes:
AL = Alert level
AQL = Aquifer Quality Limit
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M58-O QUARTERLY CONCENTRATION GRAPHS



Notes:
AL = Alert level
AQL = Aquifer Quality Limit
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M59-O QUARTERLY CONCENTRATION GRAPHS

Figure 13a. Magnesium

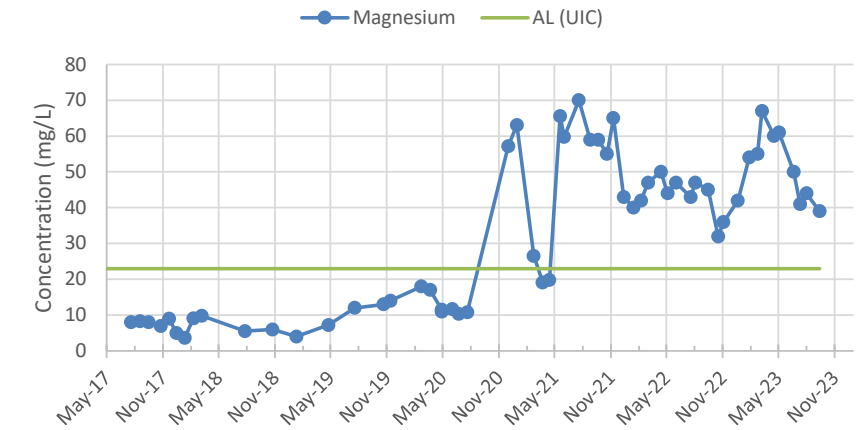


Figure 13b. Fluoride

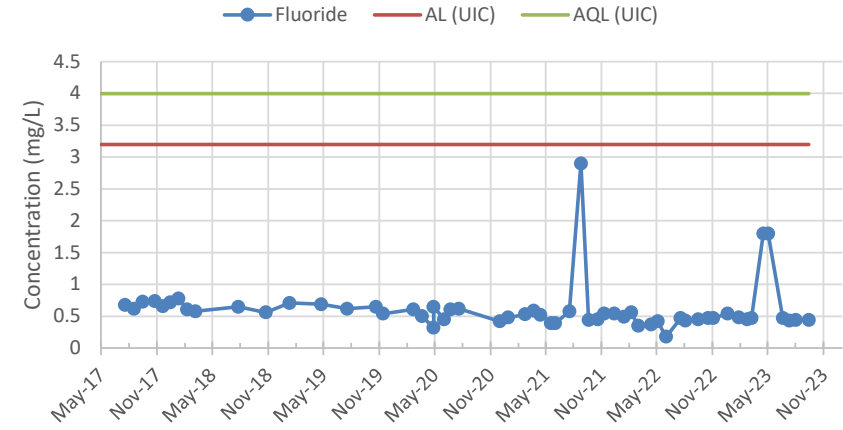


Figure 13c. pH (Field)

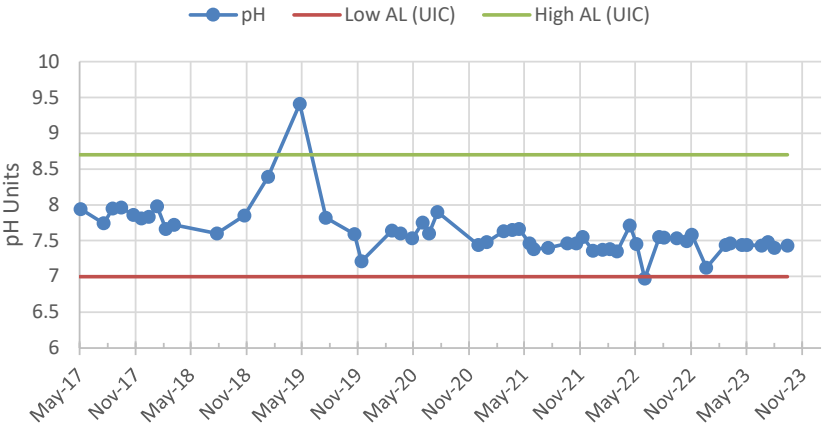


Figure 13d. Sulfate

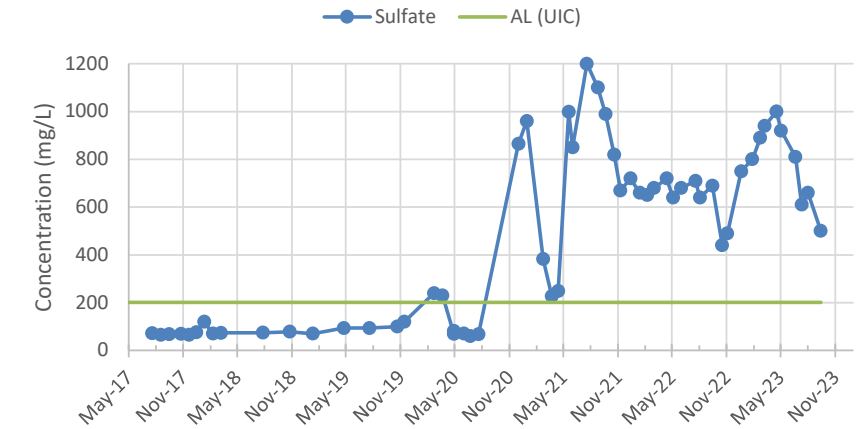


Figure 13e. Total Dissolved Solids

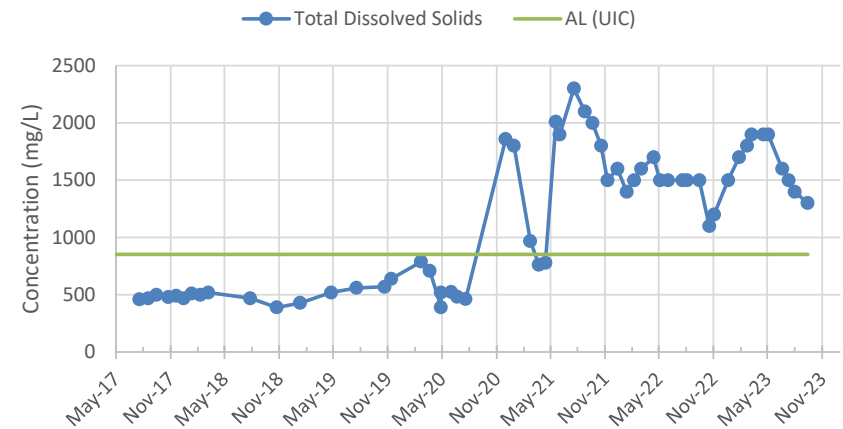
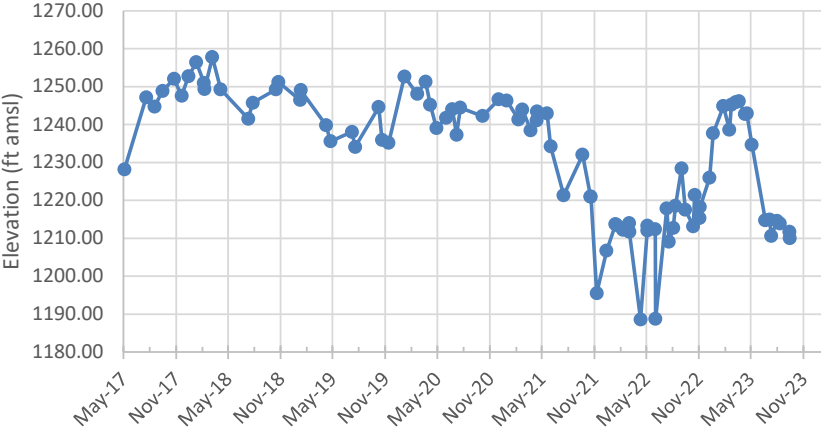
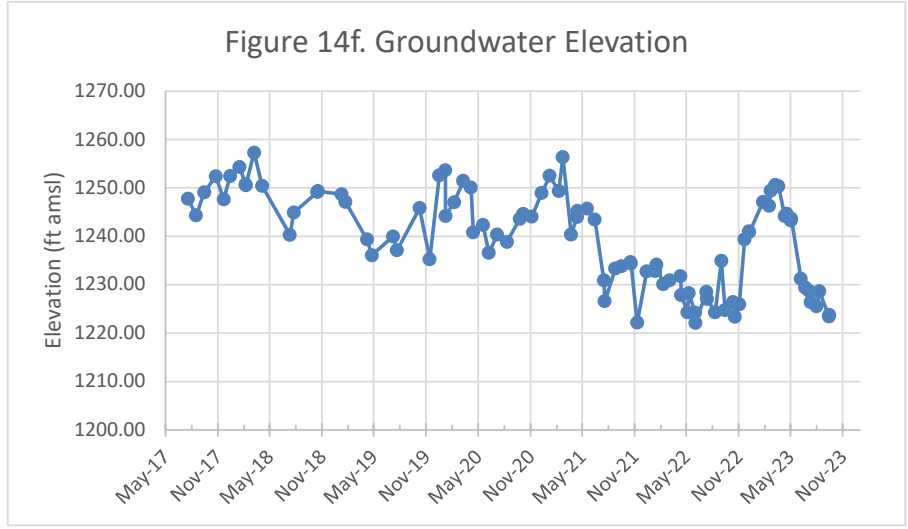
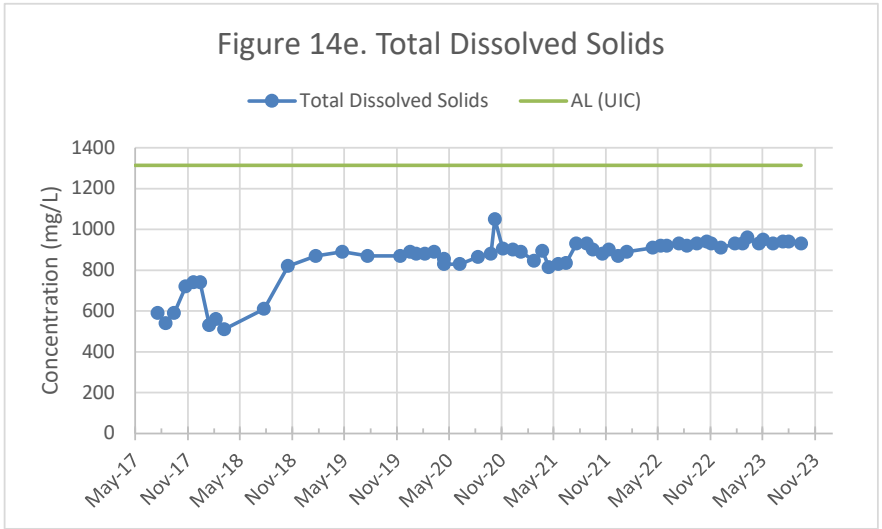
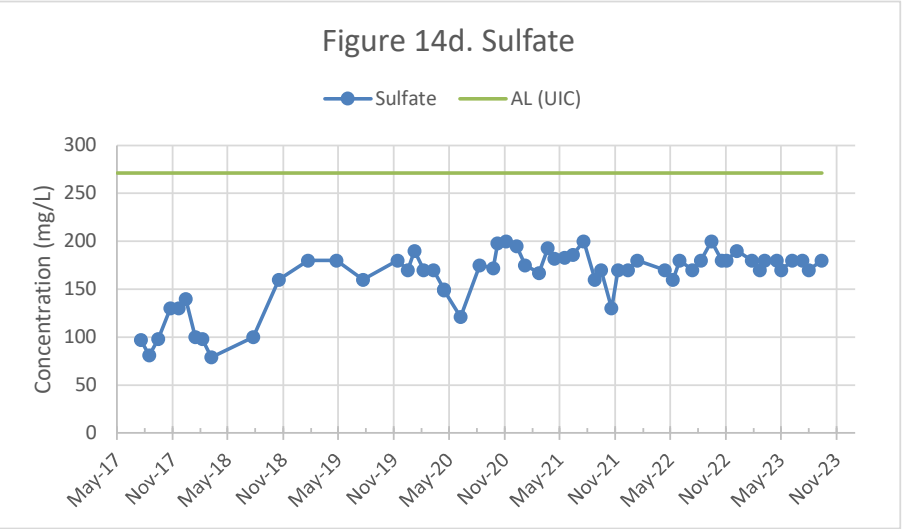
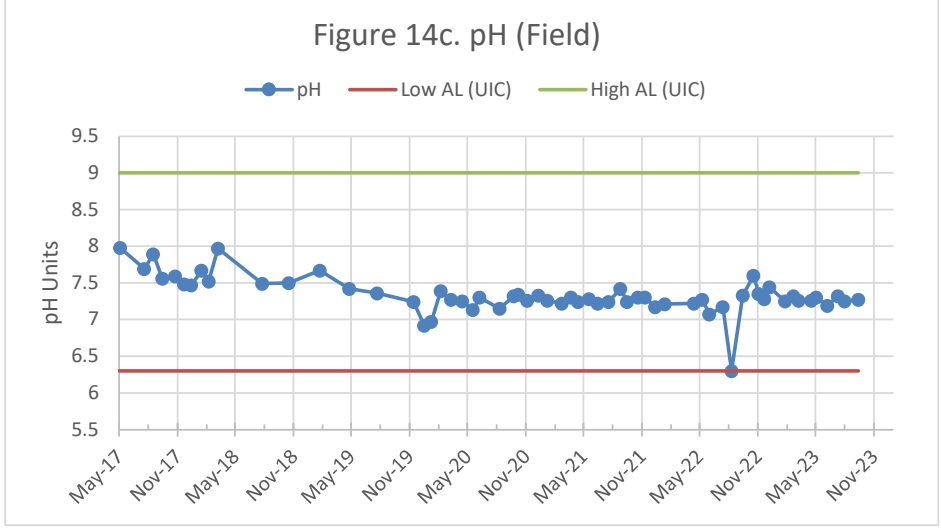
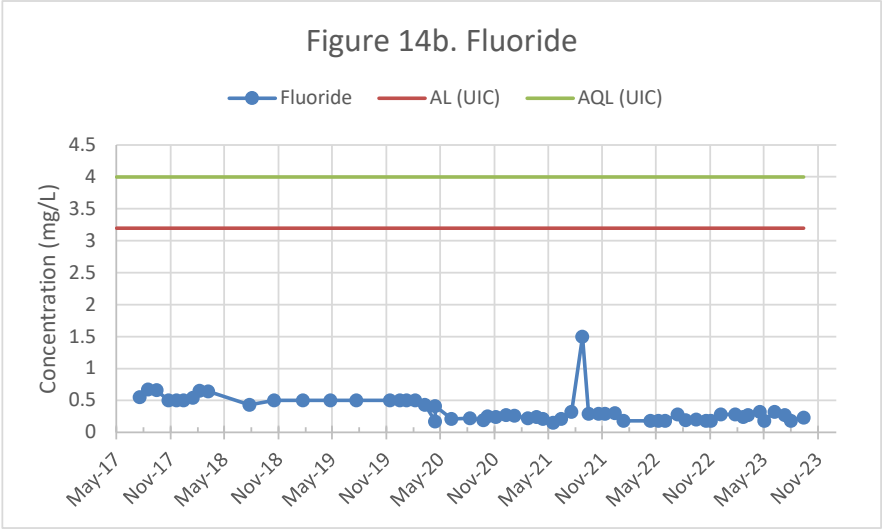
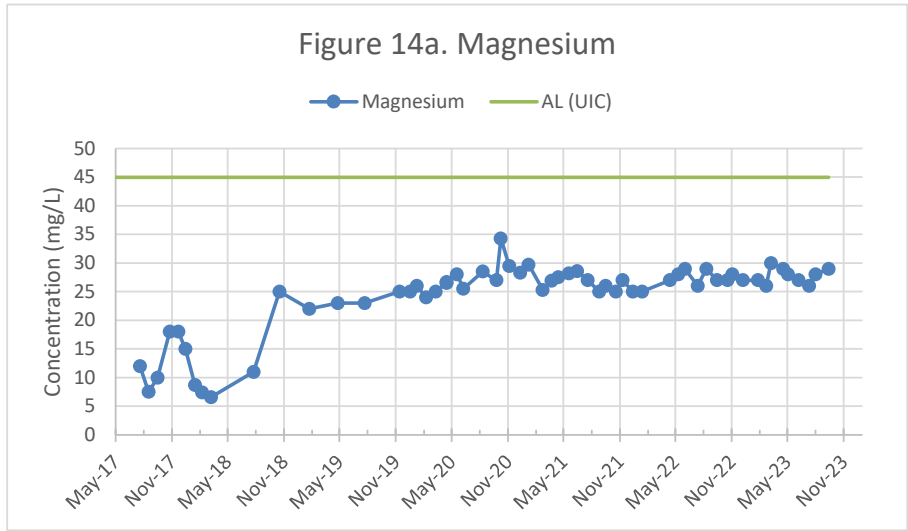


Figure 13f. Groundwater Elevation



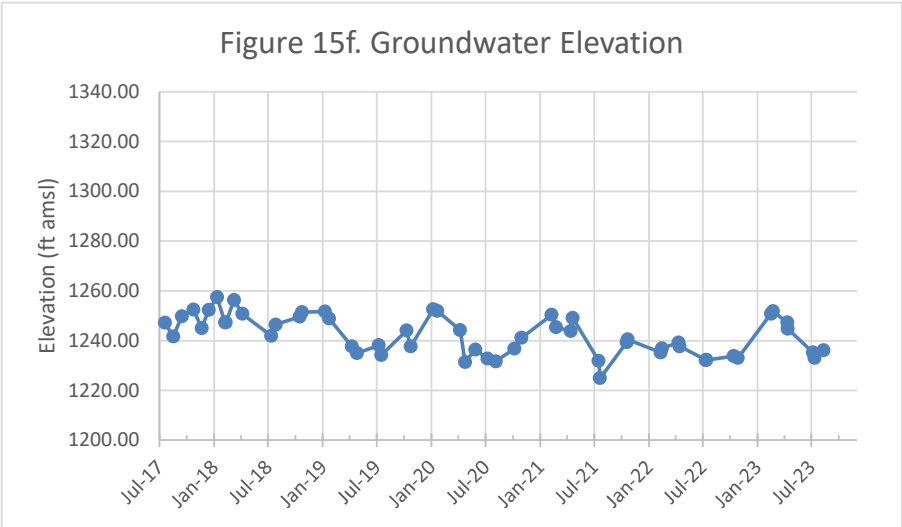
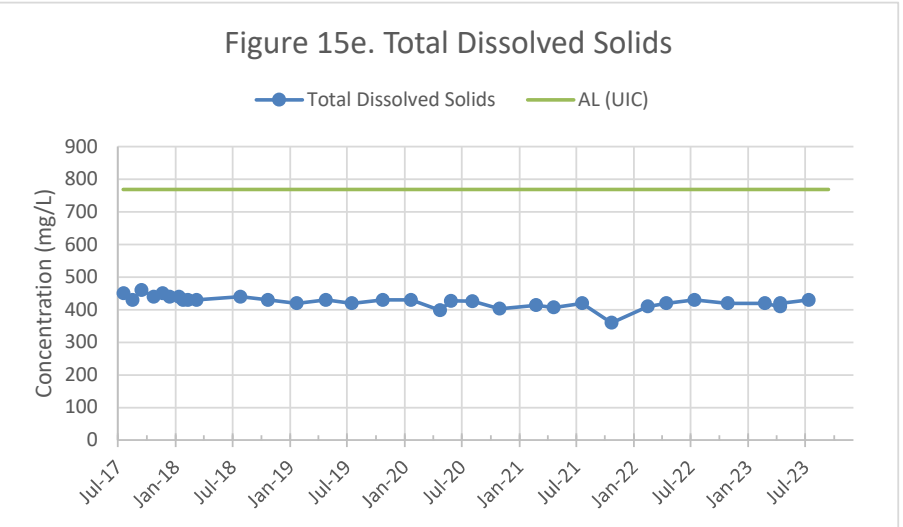
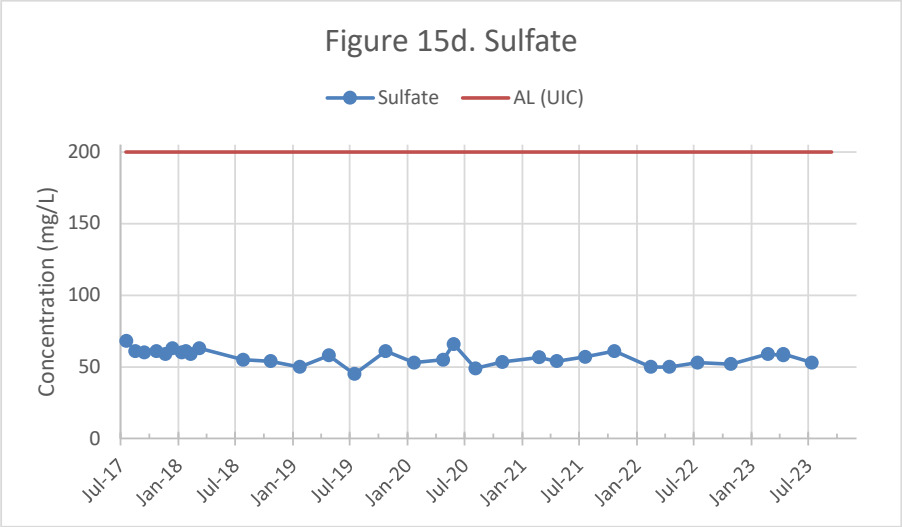
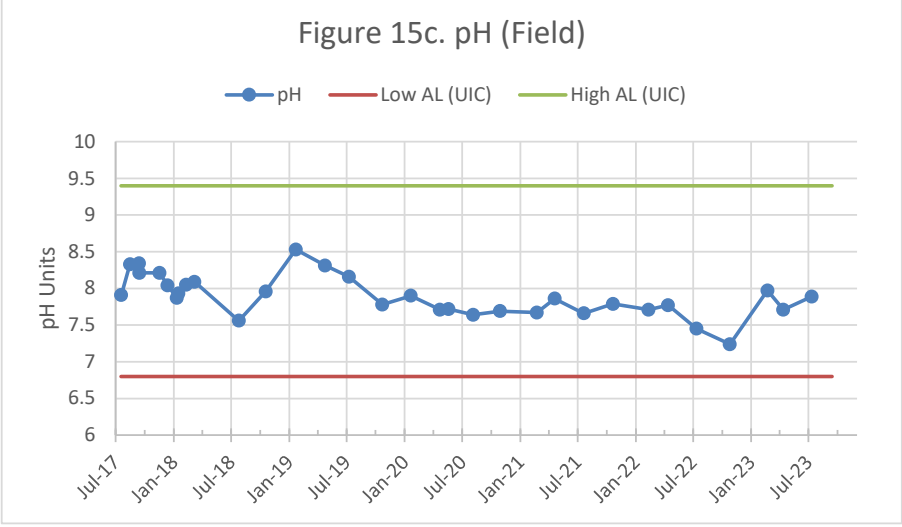
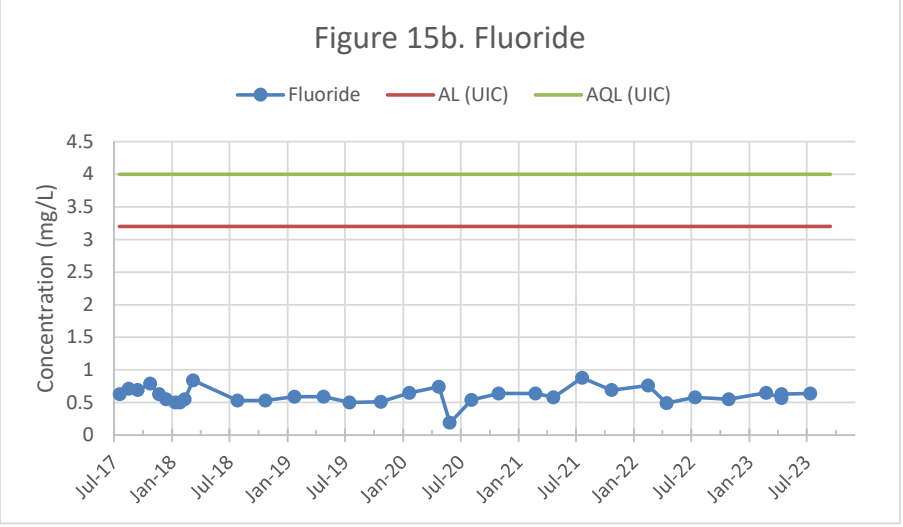
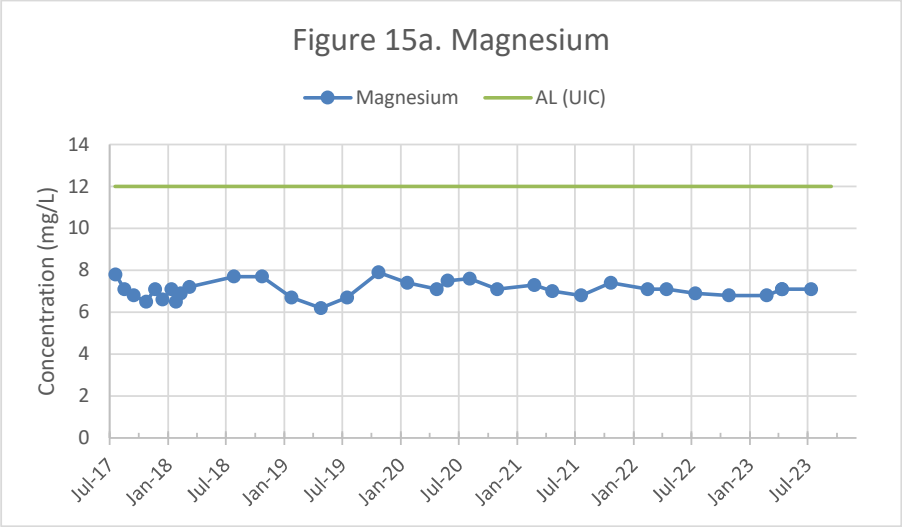
Notes:
AL = Alert level
AQL = Aquifer Quality Limit
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M60-O QUARTERLY CONCENTRATION GRAPHS



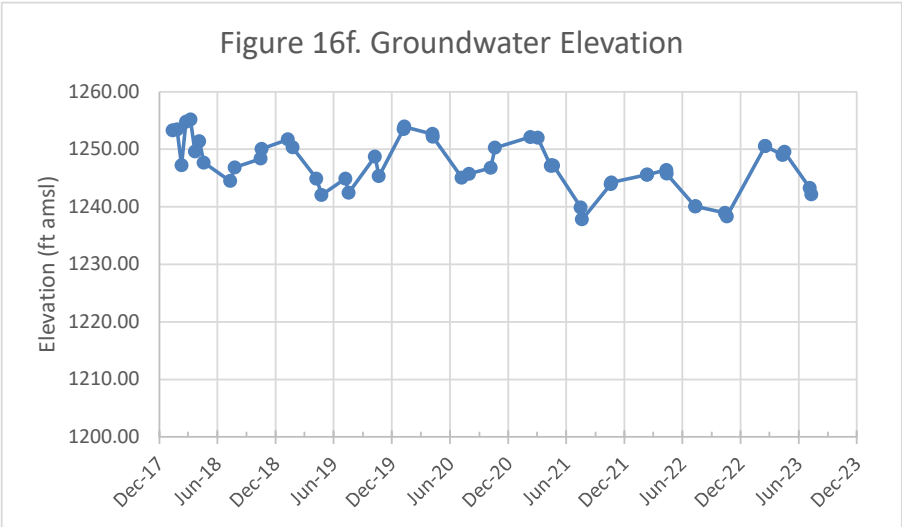
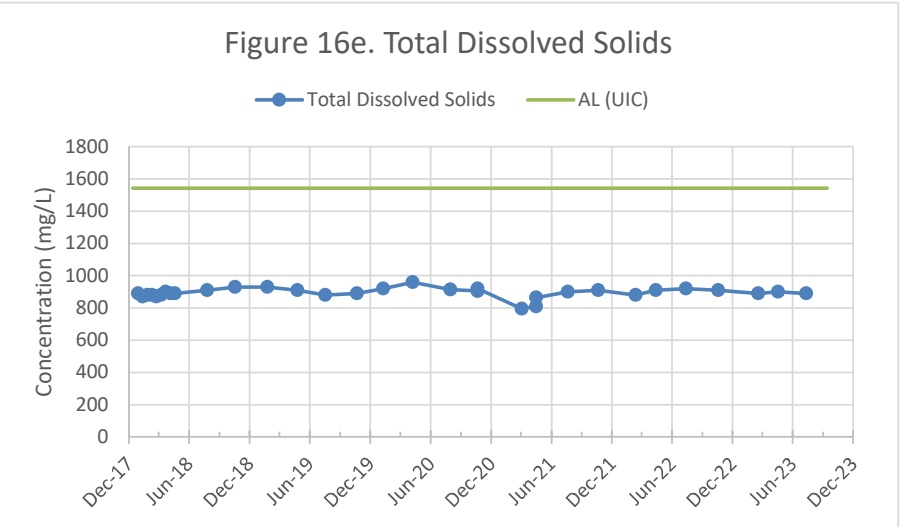
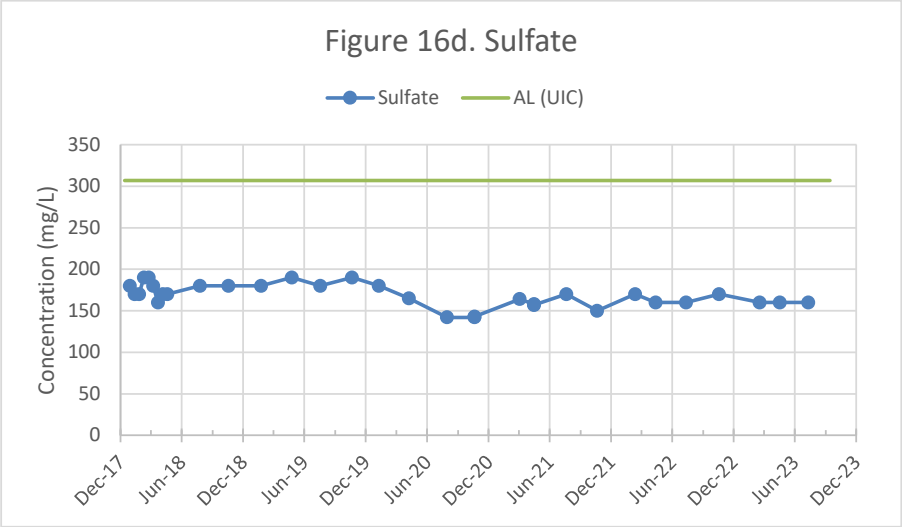
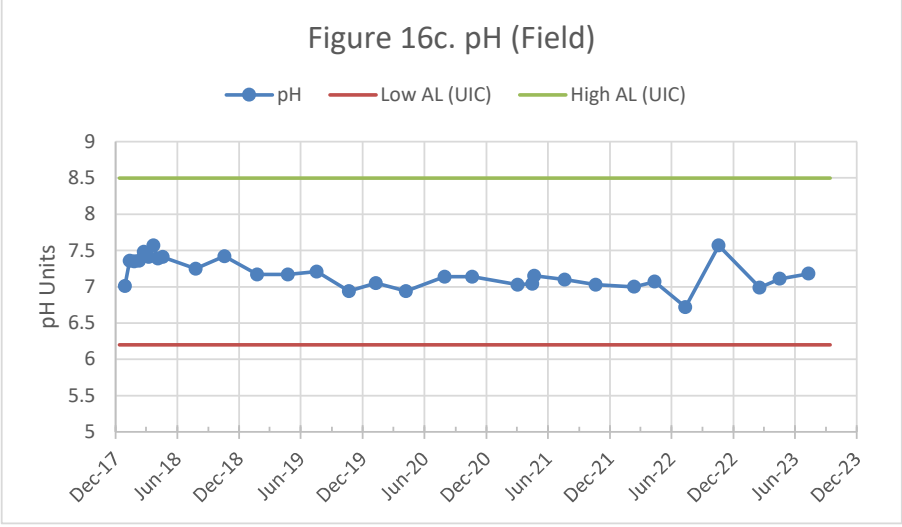
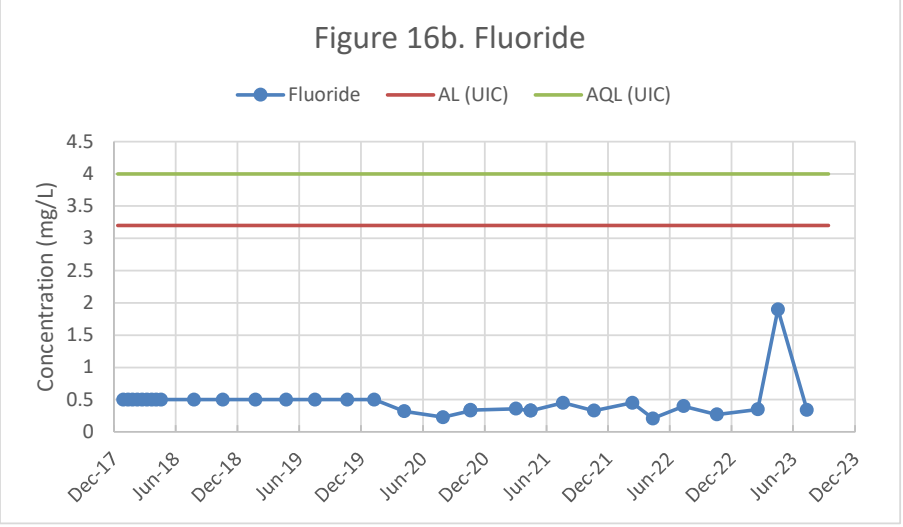
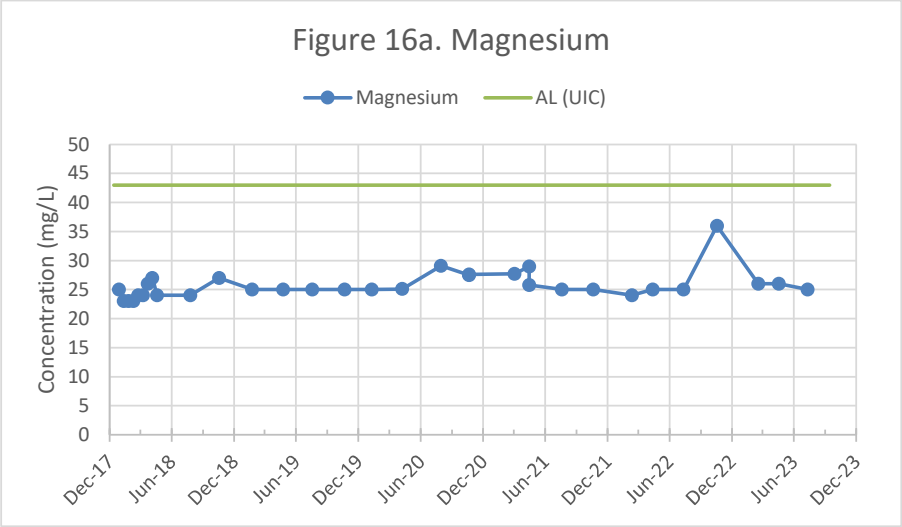
Notes:
AL = Alert level
AQL = Aquifer Quality Limit
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

M61-LBF QUARTERLY CONCENTRATION GRAPHS



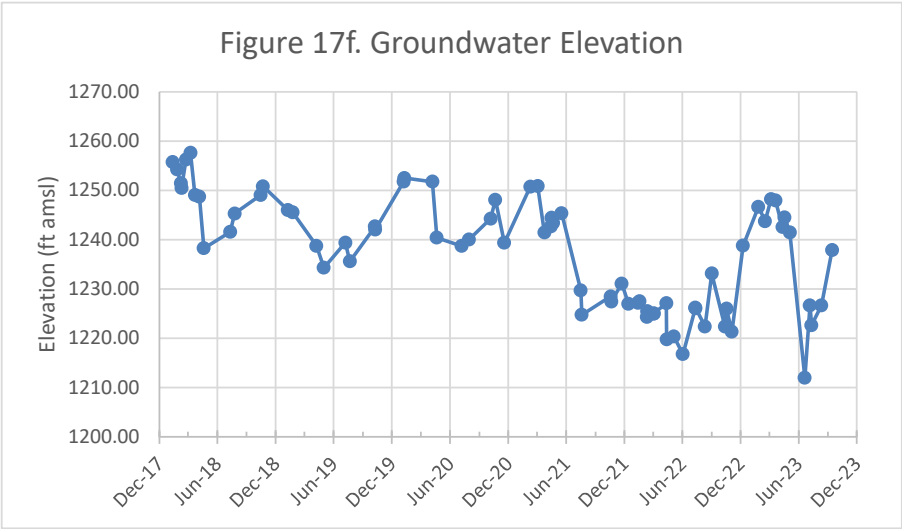
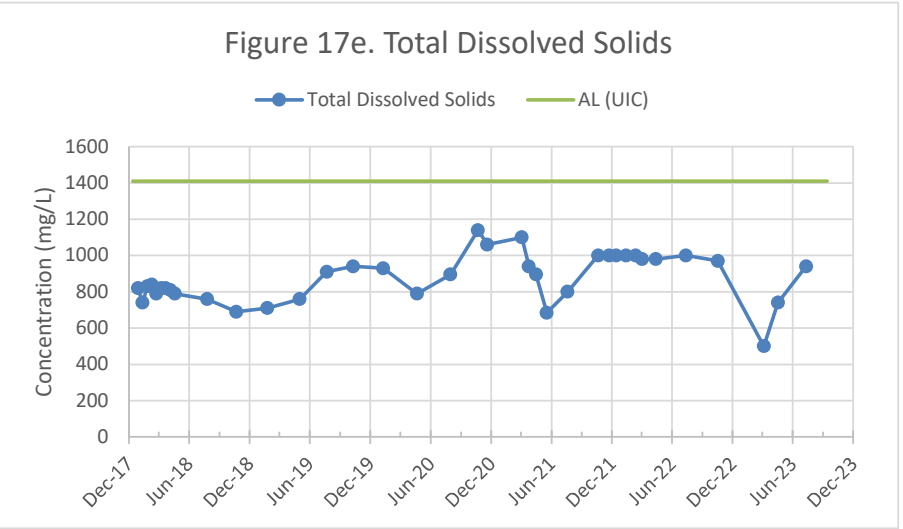
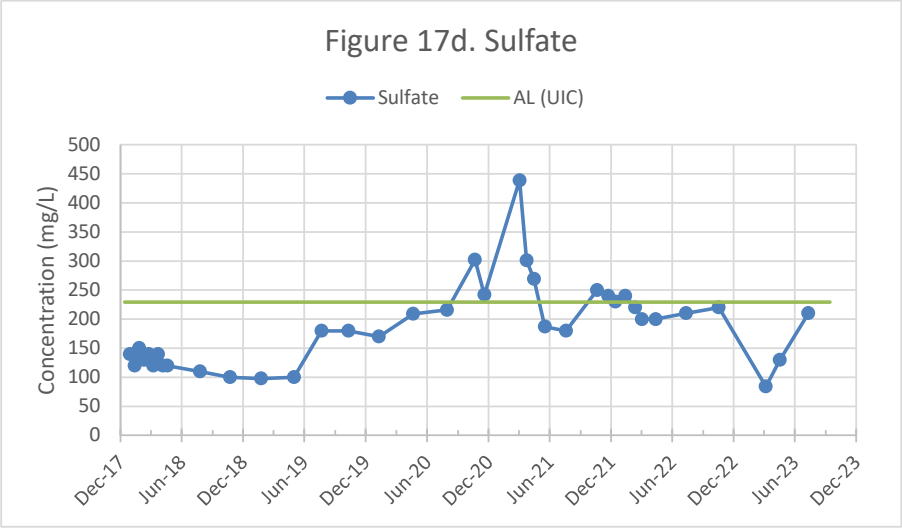
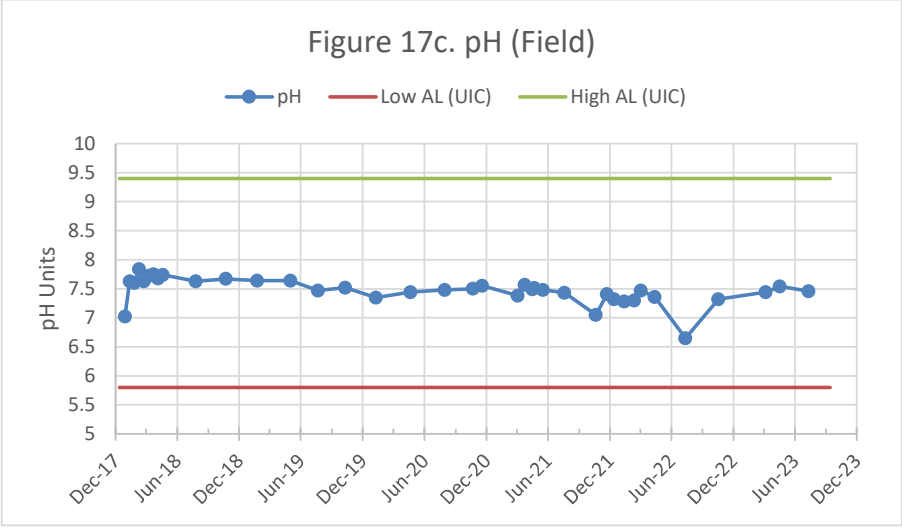
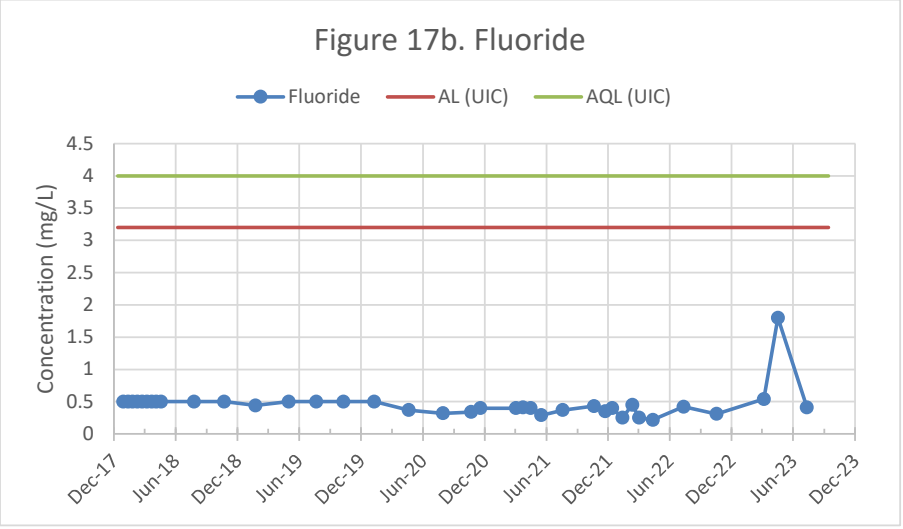
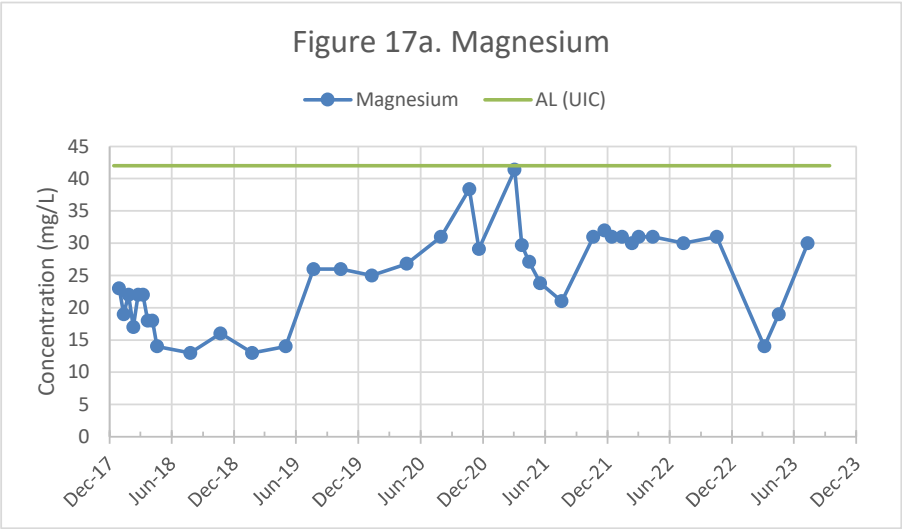
Notes:
AL = Alert level
AQL = Aquifer Quality Limit
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

MW-01-LBF QUARTERLY CONCENTRATION GRAPHS



Notes:
AL = Alert level
AQL = Aquifer Quality Limit
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

MW-01-O QUARTERLY CONCENTRATION GRAPHS



Notes:
AL = Alert level
AQL = Aquifer Quality Limit
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

ATTACHMENT 6B

Well Details and Water Level Elevations

TABLE 1
UIC MONITORING WELL DETAILS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

Well ID	Well Type	ADWR #	Total Well Depth (ft bgs)	Latitude	Longitude	Screened Interval (ft bgs)	Aquifer Unit
M14-GL	POC	55-549172	838	33°03'4.0"N	111°26'15.77"W	778-838	LBFU
M15-GU	POC	55-547813	594	33°03'4.04"N	111°26'16.40"W	554-594	LBFU
M22-O	POC	55-555831	1,130	33°03'4.53"N	111°26'15.76"W	932-1,130	OXIDE
M23-UBF	POC	55-555824	250	33°03'4.51"N	111°26'16.50"W	210-250	UBFU
M54-LBF	POC	55-226792	629	33°03'7.07"N	111°26'9.29"W	310-629	LBFU
M54-O	POC	55-226798	1,199	33°03'6.91"N	111°26'9.22"W	668-1,199	OXIDE
M52-UBF	POC	55-226788	274	33°03'11.03"N	111°25'24.66"W	200-274	UBFU
M55-UBF	Monitor	55-226797	261	33°03'1.99"N	111°26'6.18"W	240-261	UBFU
M56-LBF	Monitor	55-226795	340	33°03'2.21"N	111°26'6.44"W	320-340	LBFU
M57-O	Monitor	55-226790	1,200	33°03'1.88"N	111°26'8.39"W	523-1,200	OXIDE
M58-O	Monitor	55-226794	1,200	33°03'5.20"N	111°26'4.94"W	594-1,200	OXIDE
M59-O	Monitor	55-226791	1,200	33°03'1.58"N	111°26'2.25"W	534-1,200	OXIDE
M60-O	Monitor	55-226796	1,201	33°02'58.70"N	111°26'5.78"W	444-1,201	OXIDE
M61-LBF	Monitor	55-226799	630	33°03'0.85"N	111°25'58.92"W	429-630	LBFU
MW-01-LBF	Operational	55-226789	440	33°03'02.9442"N	111°26'07.1046"W	330-440	LBFU
MW-01-O	Operational	55-226793	1,200	33°03'03.045"N	111°26'06.9786"W	500-1,200	OXIDE
New Wells Constructed or Replaced							
M57R-O	Monitor	55-229751	1,200	33°03'0.31"N	111°26'8.16"W	550-1,200	OXIDE

Notes:

ADWR = Arizona Department of Water Resources

APP = Aquifer Protection Permit

ft bgs = feet below ground surface

LBFU = lower basin fill unit

POC = point of compliance

UBFU = upper basin fill unit

UIC = Underground Injection Control

TABLE 2
SUMMARY OF QUARTERLY WATER LEVELS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Location ID	Date	Depth to Water (feet)	Description of Measuring Point	Elevation of Measuring Point (feet amsl)	Water Level Elevation (feet amsl)
M14-GL	07/06/2023	235.64	TOC	1477.12	1241.48
M14-GL	07/18/2023	234.80	TOC	1477.12	1242.32
M14-GL	08/11/2023	235.40	TOC	1477.12	1241.72
M15-GU	07/06/2023	233.19	TOC	1476.53	1243.34
M15-GU	07/18/2023	233.03	TOM	1476.53	1243.50
M15-GU	08/11/2023	233.52	TOM	1476.53	1243.01
M22-O	07/06/2023	239.53	TOM	1478.58	1239.05
M22-O	07/24/2023	237.06	TOM	1478.58	1241.52
M22-O	08/11/2023	239.96	TOM	1478.58	1238.62
M22-O	09/14/2023	241.25	TOM	1478.58	1237.33
M23-UBF	07/06/2023	221.00	TOM	1477.61	1256.61
M23-UBF	07/18/2023	221.17	TOM	1477.61	1256.44
M23-UBF	08/11/2023	220.87	TOM	1477.61	1256.74
M52-UBF	07/06/2023	233.54	TOC	1485.04	1251.50
M52-UBF	07/17/2023	233.82	TOC	1485.04	1251.22
M52-UBF	08/11/2023	233.41	TOC	1485.04	1251.63
M54-LBF	07/06/2023	237.54	TOC	1481.92	1244.38
M54-LBF	07/12/2023	238.17	TOC	1481.92	1243.75
M54-LBF	08/11/2023	237.50	TOC	1481.92	1244.42
M54-O	07/06/2023	253.00	TOC	1482.47	1229.47
M54-O	07/12/2023	254.83	TOC	1482.47	1227.64
M54-O	08/11/2023	253.23	TOC	1482.47	1229.24
M54-O	09/14/2023	257.80	TOC	1482.47	1224.67
M55-UBF	07/06/2023	232.38	TOC	1479.14	1246.76
M55-UBF	07/10/2023	232.57	TOC	1479.14	1246.57
M55-UBF	08/11/2023	232.10	TOC	1479.14	1247.04
M56-LBF	07/06/2023	236.79	TOC	1478.65	1241.86
M56-LBF	07/10/2023	238.68	TOC	1478.65	1239.97
M56-LBF	08/11/2023	236.75	TOC	1478.65	1241.90
M57-O	07/06/2023	252.43	TOC	1478.71	1226.28
M57-O	07/10/2023	253.20	TOC	1478.71	1225.51
M57-O	08/11/2023	252.82	TOC	1478.71	1225.89
M57-O	09/14/2023	258.86	TOC	1478.71	1219.85
M57R-O	07/06/2023	250.94	TOC	1478.29	1227.35
M57R-O	07/10/2023	257.43	TOC	1478.29	1220.86
M57R-O	08/11/2023	241.19	TOC	1478.29	1237.10
M57R-O	09/14/2023	257.76	TOC	1478.29	1220.53
M58-O	07/06/2023	251.75	TOC	1481.08	1229.33
M58-O	07/10/2023	258.81	TOC	1481.08	1222.27
M58-O	08/11/2023	251.70	TOC	1481.08	1229.38
M58-O	09/14/2023	244.84	TOC	1481.08	1236.24
M59-O	07/06/2023	265.30	TOC	1480.19	1214.89
M59-O	07/11/2023	269.57	TOC	1480.19	1210.62
M59-O	08/01/2023	265.63	TOC	1480.19	1214.56
M59-O	08/11/2023	266.31	TOC	1480.19	1213.88
M59-O	09/13/2023	268.49	TOC	1480.19	1211.70
M59-O	09/14/2023	270.14	TOC	1480.19	1210.05
M60-O	07/06/2023	248.66	TOC	1477.36	1228.70
M60-O	07/11/2023	250.97	TOC	1477.36	1226.39
M60-O	08/01/2023	251.84	TOC	1477.36	1225.52
M60-O	08/11/2023	248.73	TOC	1477.36	1228.63
M60-O	09/13/2023	253.94	TOC	1477.36	1223.42
M60-O	09/14/2023	253.59	TOC	1477.36	1223.77
M61-LBF	07/06/2023	245.49	TOC	1480.78	1235.29
M61-LBF	07/12/2023	247.71	TOC	1480.78	1233.07
M61-LBF	08/11/2023	244.63	TOC	1480.78	1236.15
MW-01-LBF	07/06/2023	235.68	TOC	1478.92	1243.24
MW-01-LBF	07/11/2023	236.75	TOC	1478.92	1242.17
MW-01-O	07/06/2023	252.39	TOC	1479.07	1226.68
MW-01-O	07/11/2023	256.40	TOC	1479.07	1222.67
MW-01-O	08/11/2023	252.40	TOC	1479.07	1226.67
MW-01-O	09/14/2023	259.20	TOC	1497.07	1237.87
Mine Shaft	07/06/2023	238.58	TOS	1480.40	1241.82
Mine Shaft	08/11/2023	238.02	TOS	1480.40	1242.38
Mine Shaft	09/14/2023	239.67	TOS	1480.40	1240.73
Status of Local Production Wells					
BIA-9R	7/16/2023	Not Pumping			
BIA-10	7/16/2023	Not Pumping			
PW2-1	7/16/2023	Not Pumping			
WW-4	7/16/2023	Not Pumping			

Notes:
amsl = above mean sea level
NM = not measured
TOC = top of casing
TOM = top of monument
TOS = top of stickup

ATTACHMENT 6C

Groundwater Monitoring Summary

TECHNICAL MEMORANDUM

28 October 2023
File No. 133887-018

TO: Florence Copper LLC
John Mays, General Manager

FROM: Haley & Aldrich, Inc.
Laura Menken, R.G., Project Manager
Mark Nicholls, R.G., Lead Hydrogeologist



SUBJECT: Florence Copper Project, Quarterly Compliance Monitoring Report
Underground Injection Control Permit, Third Quarter 2023

Haley & Aldrich, Inc. has prepared this memorandum to present the results of the quarterly compliance groundwater monitoring conducted during the third quarter (Q3) 2023 at the Florence Copper Project. The Florence Copper Project is subject to two related permits issued by the Arizona Department of Environmental Quality (ADEQ) and the U.S. Environmental Protection Agency (USEPA).

Aquifer Protection Permit (APP) Covering Existing and Future In-Situ Copper Recovery Facilities and Operations:

- ADEQ APP No. P-101704 (LTF 88973) dated 30 April 2021.

Underground Injection Control (UIC) Permit Covering the Current Production Test Facility:

- USEPA UIC Permit No. R9UIC-AZ3-FY11-1 dated 20 December 2016.

This report presents the results of the Q3 2023 groundwater monitoring activities required by the UIC permit.

Sampling Activities

During Q3 2023, monitoring was conducted at 16 point of compliance, monitoring, and supplemental wells. Water levels were measured on 6 July 2023, and quarterly groundwater sampling was conducted between 10 July and 13 September 2023. Groundwater sampling and analysis was conducted in accordance with requirements of Part II.F of the UIC permit.

The majority of the monitoring wells are equipped with low-flow bladder pumps. Low-flow sampling was conducted in accordance with Section 2.5.3 of the APP. Wells M14-GL and M22-O are equipped with stainless steel electric submersible pumps and were sampled by purging a minimum of three borehole volumes. No modified sampling procedures were used.

Each sample was labeled, placed in a cooler with ice, and transported under chain of custody to Turner Laboratories for analysis. Samples were analyzed for the quarterly (Level 1) monitoring parameters in Table 1 of the UIC permit. Sample containers collected for radiological parameter analysis were labeled and transported under chain of custody directly to Radiation Safety Engineering, Inc., who performed the analyses as a subcontractor to the primary laboratory. Note that uranium activity and adjusted gross alpha are analyzed and reported only when gross alpha results exceed 12 picocuries per liter (pCi/L).

Florence Copper LLC (Florence Copper) has elected to monitor two wells for select analytes on a more frequent basis. Additional monitoring of wells M59-O and M60-O was performed during Q3 2023. Samples were analyzed for quarterly (Level 1) and various radiological parameters.

Results

The results of the Q3 2023 monitoring event are presented in Tables 1 through 4 as follows:

- Table 1 – Q3 2023 Field Parameters;¹
- Table 2 – Q3 2023 Quarterly (Level 1) Analytical Parameters;
- Table 3 – Q3 2023 M59-O Monitoring Summary; and
- Table 4 – Q3 2023 M60-O Monitoring Summary.

The Q3 2023 results were compared to the alert levels (AL) and aquifer quality limits (AQL) listed in the applicable tables in Appendix K of the UIC permit and Table 4B of the document submitted to the USEPA dated 12 December 2018, titled *Procedures for Determining Alert Levels and Aquifer Quality Limits for Groundwater Compliance Monitoring*.

A quality assurance/quality control summary of the Q3 2023 data is provided in Appendix A.

¹ Note that turbidity was monitored as a field parameter in addition to field pH, temperature, and specific conductance, but is not required by the APP or UIC permit and is therefore not reported.

Q3 2023 AL AND AQL EXCEEDANCES

The following AL exceedances occurred in Q3 2023 and are described in more detail under the *Contingency Sampling Plans* section.

Well	Alert Level Exceedance	Current Status
M59-O	Magnesium Sulfate Total Dissolved Solids Total Uranium Adjusted gross alpha Gross alpha* Gross beta Radium 226 & 228	Voluntary** monthly monitoring ongoing
M60-O	Radon	Voluntary** monthly monitoring ongoing
Note: <i>Florence Copper LLC (Florence Copper) has elected to monitor select analytes on a more frequent basis.</i> <i>* There is no alert level (AL) for gross alpha in the Underground Injection Control (UIC) Permit</i> <i>** Wells M59-O and M60-O were previously included in Aquifer Protection Permit (APP) No. P-106360 where confirmed exceedances required a monthly frequency for sampling. These wells were not included in APP No. P-101704 and are located within the area of the future in situ copper recovery (ISCR) wellfield. These wells will be abandoned before the commencement of ISCR operations. These wells are currently only regulated under the UIC, and the increased frequency is not required. Florence Copper has opted to monitor the selected parameters in these wells voluntarily on a monthly basis.</i>		

The following AQL exceedances occurred in Q3 2023 and are described in more detail under the *Contingency Sampling Plans* section.

Well	Aquifer Quality Limit Exceedance
M59-O	Adjusted gross alpha Gross beta Radium

Contingency Sampling Plans

Contingency sampling plan procedures consistent with Part II.H.2 of the UIC permit were implemented during Q3 2023.

SUPPLEMENTAL MONITORING WELL M59-O

Temporary APP No. P-106360 (LTF 80030) dated 13 February 2020 (Temporary APP) expired on 14 December 2020 and was confirmed to be no longer in effect through an ADEQ letter dated 12 February 2021. During Q4 2020, while the Temporary APP was still active, sampling frequency was

increased to monthly in accordance with Section 2.6.2.4.1 for magnesium, sulfate, total dissolved solids, uranium, gross beta, adjusted gross alpha, and radium 226+228.

Monthly sampling was scheduled to begin in February 2021. As of Q1 2021, well M59-O is only monitored under the UIC permit. Since sampling frequency was increased to monthly sampling under the Temporary APP but was not changed before the permit term ended, Florence Copper has elected to continue monitoring these analytes monthly.

In Q3 2023, well M59-O was sampled on 11 July, 1 August, and 13 September 2023. Results and exceedances are provided in the table below. All other parameters were below their respective ALs/AQLs in each sample.

Results for Well M59-O				
Date	Parameter	Result	UIC AL	UIC AQL
11 July 2023	Adjusted gross alpha	39.4 ± 2.2 pCi/L	15.8 pCi/L	15.8 pCi/L
1 August 2023		25.8 ± 3.6 pCi/L	15.8 pCi/L	15.8 pCi/L
13 September 2023		29.7 ± 2.0 pCi/L	15.8 pCi/L	15.8 pCi/L
11 July 2023	Gross beta	24.1 ± 1.9 pCi/L	16 pCi/L	16 pCi/L
1 August 2023		23.9 ± 1.9 pCi/L	16 pCi/L	16 pCi/L
13 September 2023		19.4 ± 1.7 pCi/L	16 pCi/L	16 pCi/L
11 July 2023	Magnesium	41 mg/L	23 mg/L	No AQL
1 August 2023		44 mg/L	23 mg/L	No AQL
13 September 2023		39 mg/L	23 mg/L	No AQL
11 July 2023	Radium 226 & 228	12.8 ± 0.7 pCi/L	6.9 pCi/L	6.9 pCi/L
1 August 2023		9.5 ± 0.5 pCi/L	6.9 pCi/L	6.9 pCi/L
13 September 2023		10.9 ± 0.6 pCi/L	6.9 pCi/L	6.9 pCi/L
11 July 2023	Sulfate	610 mg/L	202 mg/L	No AQL
1 August 2023		660 mg/L	202 mg/L	No AQL
13 September 2023		500 mg/L	202 mg/L	No AQL
11 July 2023	TDS	1,500 mg/L	854 mg/L	No AQL
1 August 2023		1,400 mg/L	854 mg/L	No AQL
13 September 2023		1,300 mg/L	854 mg/L	No AQL
11 July 2023	Total Uranium	0.022 mg/L	0.0052 mg/L	No AQL
1 August 2023		0.022 mg/L	0.0052 mg/L	No AQL
13 September 2023		0.017 mg/L	0.0052 mg/L	No AQL
Notes: Bold = Exceedances AL = alert level AQL = aquifer quality limit mg/L = milligrams per liter pCi/L = picocuries per liter TDS = total dissolved solids UIC = Underground Injection Control				

Based on correspondence with the USEPA at the end of June 2022, notification of the exceedances during monthly monitoring at M59-O will now be solely reported in the quarterly compliance groundwater monitoring report. Florence Copper will continue voluntary monthly sampling until analytes are below their ALs and AQLs.

SUPPLEMENTAL MONITORING WELL M60-O

Monthly monitoring of gross alpha at well M60-O began in January 2020 following a Temporary APP AL exceedance was confirmed in Q4 2019. The Temporary APP expired on 14 December 2020 and was confirmed to be no longer in effect through an ADEQ letter dated 12 February 2021. As of Q1 2021, well M60-O is only permitted under the UIC permit. Since sampling frequency was increased to monthly sampling under the Temporary APP but was not resolved before its expiration, Florence Copper elected to continue monitoring these analytes monthly. On 3 June 2021, Florence Copper notified the USEPA that well M60-O will continue to be monitored monthly.

In April 2021, radon was added to the monthly parameter list due to an exceedance in a quarterly sample. In January 2022, M60-O was reported with all parameters below their applicable ALs. As a result, Florence Copper elected to discontinue voluntary monthly sampling in Q1 2022. However, due to a confirmed exceedance in Q2 2022, Florence Copper elected to reinstate voluntary monthly sampling at well M60-O for radon.

In Q3 2023, well M60-O was sampled on 11 July, 1 August, and 13 September 2023. Results and exceedances are provided in the table below. All other parameters were below their respective ALs/AQLs in each sample.

Results for Well M60-O				
Date	Parameter	Result	UIC AL	UIC AQL
11 July 2023	Radon-222	3,462 ± 348 pCi/L	2480 pCi/L	No AQL
1 August 2023		3,270 ± 328 pCi/L	2480 pCi/L	No AQL
13 September 2023		2,664 ± 268 pCi/L	2480 pCi/L	No AQL
Notes: <i>Bold = Exceedances</i> <i>AL = alert level</i> <i>AQL = aquifer quality limit</i> <i>pCi/L = picocuries per liter</i> <i>UIC = Underground Injection Control</i>				

Based on correspondence with USEPA at the end of June 2022, notification of the exceedances during monthly monitoring at M60-O will now be solely reported in the quarterly compliance groundwater monitoring report. Florence Copper will continue voluntary monthly sampling until radon is below its UIC AL.

Florence Copper LLC

28 October 2023

Page 6

Enclosures:

Table 1 – Q3 2023 Field Parameters

Table 2 – Q3 2023 Quarterly (Level 1) Analytical Parameters

Table 3 – Q3 2023 M59-O Monitoring Summary

Table 4 – Q3 2023 M60-O Monitoring Summary

Appendix A – Data Quality Assurance/Quality Control Summary Memorandum

\\haleyaldrich.com\share\phx_common\Projects\Florence Copper\133887 Quarterly Monitoring\Deliverables\3Q 2023 Reports\3Q 2023 UIC Report\Attachments\UIC 6C - Quarterly Compliance Monitoring Report\2023-1028_UIC POC 3Q2023_F.docx

TABLES

TABLE 1
Q3 2023 FIELD PARAMETERS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

Location	Sample Date	Temperature, Field Deg C	Temperature, Field Deg F	pH, Field pH units	pH Low UIC Alert Level pH units	pH High UIC Alert Level pH units	Specific Conductance, Field µmhos/cm
M14-GL	07/18/2023	27.3	81.1	7.85	NE	NE	904
M15-GU	07/18/2023	23.4	74.1	7.45	NE	NE	1,637
M22-O	07/24/2023	28.5	83.3	8.23	NE	NE	780
M23-UBF	07/18/2023	24.6	76.3	7.29	NE	NE	1,921
M52-UBF	07/17/2023	28.8	83.8	7.12	6.9	7.9	1,573
M54-LBF	07/12/2023	25.8	78.4	7.21	6.5	8.2	1,549
M54-O	07/12/2023	29.9	85.8	7.43	6.8	9.4	757
M55-UBF	07/10/2023	28.3	82.9	7.08	6.6	7.8	1,887
M56-LBF	07/10/2023	28.6	83.5	7.19	6.5	8.3	1,602
M57-O	07/10/2023	26.2	79.2	7.73	7.2	8.5	1,096
M57R-O	07/10/2023	25.2	77.4	7.47	NE	NE	1,483
M58-O	07/10/2023	31.1	88.0	7.72	6.2	9.0	1,456
M59-O	07/11/2023	26.7	80.1	7.48	7.0	8.7	2,149
M59-O ⁽¹⁾	08/01/2023	26.8	80.2	7.40	7.0	8.7	2,133
M59-O ⁽¹⁾	09/13/2023	26.5	79.7	7.43	7.0	8.7	1,835
M60-O	07/11/2023	25.6	78.1	7.32	6.3	9.0	1,066
M60-O ⁽²⁾	08/01/2023	25.8	78.4	7.25	6.3	9.0	1,623
M60-O ⁽²⁾	09/13/2023	24.8	76.6	7.27	6.3	9.0	1,513
M61-LBF	07/12/2023	27.4	81.3	7.89	6.8	9.4	785
MW-01-LBF	07/11/2023	27.0	80.6	7.18	6.2	8.5	1,594
MW-01-O	07/11/2023	26.8	80.2	7.46	5.8	9.4	1,098.5

Notes:

(1) Increased frequency monitoring conducted on 8/1/2023 and 9/13/2023.

(2) Increased frequency monitoring conducted on 8/1/2023 and 9/13/2023.

µmhos/cm = micromhos per centimeter

Deg C = degrees Celsius

Deg F = degrees Fahrenheit

NE = not established

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

TABLE 2

Q3 2023 QUARTERLY (LEVEL 1) ANALYTICAL PARAMETERS

FLORENCE COPPER LLC

FLORENCE, ARIZONA

Location ID	Sample Date	Sample Type	Magnesium, Dissolved		Sulfate		Fluoride			Total Dissolved Solids (TDS)	
			Concentration	UIC Alert Level	Concentration	UIC Alert Level	Concentration	UIC Alert Level	UIC AQL	Concentration	UIC Alert Level
M14-GL	07/18/2023	Primary	9.9	23	62	144	0.51	3.2	4.0	480	874
M15-GU	07/18/2023	Primary	30	44	120	126	0.30 J	3.2	4.0	870	1359
M22-O	07/24/2023	Primary	6.8	8.6	61	86	0.73	3.2	4.0	440	1094
M23-UBF	07/18/2023	Primary	29	69	230	411	0.84	3.2	4.0	1,100	2392
M52-UBF	07/17/2023	Primary	25	41	160	316	0.67	3.2	4.0	900	1502
M54-LBF	07/12/2023	Primary	23	42	160	297	0.76	3.2	4.0	890	1561
M54-O	07/12/2023	Primary	5.8	10	47	200	0.76	3.2	4.0	400	771
M55-UBF	07/10/2023	Primary	30	45	200	425	0.67	3.2	4.0	1,100	1711
M56-LBF	07/10/2023	Primary	26	41	160	281	0.23 J	3.2	4.0	880	1485
M57-O	07/10/2023	Primary	17	18	110	200	0.52	3.2	4.0	600	842
M57R-O	07/10/2023	Primary	26	35	160	230	0.44 J	3.2	4.0	810	1113
M58-O	07/10/2023	Primary	16	51	150	385	0.80	3.2	4.0	810	1539
M59-O	07/11/2023	Primary	41	23	610	202	0.43 J	3.2	4.0	1,500	854
M59-O ⁽¹⁾	08/01/2023	Primary	44	23	660	202	0.44 J	3.2	4.0	1,400	854
M59-O ⁽¹⁾	09/13/2023	Primary	39	23	500	202	0.44 J	3.2	4.0	1,300	854
M60-O	07/11/2023	Primary	26	45	180	271	0.27 J	3.2	4.0	940	1314
M60-O ⁽²⁾	08/01/2023	Primary	28	45	170	271	< 0.18	3.2	4.0	940	1314
M60-O ⁽²⁾	09/13/2023	Primary	29	45	180	271	0.23 J	3.2	4.0	930	1314
M61-LBF	07/12/2023	Primary	7.1	12	53	200	0.64	3.2	4.0	430	769
M61-LBF	07/12/2023	Duplicate	7.2	12	53	200	0.65	3.2	4.0	430	769
MW-01-LBF	07/11/2023	Primary	25	43	160	307	0.34 J	3.2	4.0	890	1543
MW-01-O	07/11/2023	Primary	30	42	210	229	0.41 J	3.2	4.0	940	1409
MW-01-O	07/11/2023	Duplicate	29	42	210	229	0.40 J	3.2	4.0	960	1409
Arizona Aquifer Water Quality Standard ⁽³⁾			--		--		4.0			--	

Notes:

(1) Increased frequency monitoring conducted on 8/1/2023 and 9/13/2023

(2) Increased frequency monitoring conducted on 8/1/2023 and 9/13/2023

(3) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, December 31, 2016.

Alert Level Exceedance

All results in milligrams per liter (mg/L)

Detects are **bolded**

Non-detects are reported to the laboratory method detection limit (< MDL)

AQL = Aquifer Quality Limit

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

TABLE 3
Q3 2023 M59-O MONITORING SUMMARY
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

Parameter	Unit	UIC Alert Level	UIC AQL	M59-O	M59-O	M59-O
				07/11/2023	08/01/2023	09/13/2023
				Primary	Primary	Primary
Level 1 Parameters						
Magnesium, Dissolved	mg/L	23	--	41	44	39
Sulfate	mg/L	202	--	610	660	500
Fluoride	mg/L	3.2	4	0.43 J	0.44 J	0.44 J
Total Dissolved Solids (TDS)	mg/L	854	--	1,500	1,400	1,300
Inorganic Parameters						
Uranium, Total	mg/L	0.0052	--	0.022	0.022	0.017
Radionuclide Parameters						
Gross Alpha Analytes	pCi/L	--	--	51.2 ± 1.9	44.6 ± 3.3	41.1 ± 1.7
Gross Alpha Analytes Adjusted	pCi/L	15.8	15.8	39.4 ± 2.2	25.8 ± 3.6	29.7 ± 2.0
Gross Beta Analytes	pCi/L	16	16	24.1 ± 1.9	23.9 ± 1.9	19.4 ± 1.7
Radium-226	pCi/L	--	--	7.8 ± 0.5	6.3 ± 0.3	6.6 ± 0.3
Radium-226 & 228	pCi/L	6.9	6.9	12.8 ± 0.7	9.5 ± 0.5	10.9 ± 0.6
Radium-228	pCi/L	--	--	5.0 ± 0.5	3.2 ± 0.4	4.3 ± 0.5
Total Uranium	pCi/L	--	--	11.8 ± 1.2	18.8 ± 1.5	11.4 ± 1.1
Uranium-234	pCi/L	--	--	5.4 ± 0.6	11.1 ± 0.8	5.7 ± 0.6
Uranium-235	pCi/L	--	--	0.283 ± 0.004	0.339 ± 0.005	0.255 ± 0.004
Uranium-238	pCi/L	--	--	6.1 ± 0.6	7.3 ± 0.6	5.5 ± 0.6
Total Uranium Content	ug/L	--	--	18.2 ± 1.8	21.8 ± 1.9	16.4 ± 1.7
Uranium-234	ug/L	--	--	0.00088 ± 9e-005	0.00179 ± 0.00013	0.00091 ± 9e-005
Uranium-235	ug/L	--	--	0.132 ± 0.002	0.159 ± 0.002	0.119 ± 0.002
Uranium-238	ug/L	--	--	18.1 ± 1.8	21.7 ± 1.9	16.3 ± 1.7

Notes:

Alert Level Exceedance

Detects are **bolded**

Non-detects are reported to the laboratory method detection limit (< MDL)

UIC = Underground Injection Permit No. R9UIC-AZ3-FY11-1

AQL = Aquifer Quality Limit

mg/L = milligrams per liter

J = estimated

pCi/L = picocuries per liter

ug/L = micrograms per liter

Radionuclide data presented as result ± uncertainty

TABLE 4
Q3 2023 M60-O MONITORING SUMMARY
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

Parameter	Units	UIC Alert Level	UIC AQL	M60-O	M60-O	M60-O
				07/11/2023	08/01/2023	09/13/2023
				Primary	Primary	Primary
Level 1 Parameters						
Magnesium, Dissolved	mg/L	45	--	26	28	29
Sulfate	mg/L	271	--	180	170	180
Fluoride	mg/L	3.2	4.0	0.27 J	< 0.18	0.23 J
Total Dissolved Solids (TDS)	mg/L	1314	--	940	940	930
Radionuclide Parameters						
Radon-222	pCi/L	2480	--	3,462 ± 348	3,270 ± 328	2,664 ± 268

Notes:

Alert Level Exceedance

Detects are **bolded**

Non-detects are reported to the laboratory method detection limit (< MDL)

UIC = Underground Injection Permit No. R9UIC-AZ3-FY11-1

AQL = Aquifer Quality Limit

mg/L = milligrams per liter

J = estimated

pCi/L = picocuries per liter

µg/L = micrograms per liter

Radionuclide data presented as result ± uncertainty

APPENDIX A
**Data Quality Assurance/
Quality Control Summary Memorandum**



HALEY & ALDRICH, INC.
One Arizona Center
400 E. Van Buren St., Suite 545
Phoenix, AZ 85004
602.760.2450

MEMORANDUM

28 October 2023
File No. 133887-018

TO: Haley & Aldrich, Inc.
Laura Menken, R.G.

FROM: Haley & Aldrich, Inc.
Oscar Cervantes, Engineer
Alexis Rainery, Staff Engineer

SUBJECT: Appendix A – Data Quality Assurance/Quality Control Summary

Analytical results for environmental samples collected during the third quarter 2023 compliance monitoring event were verified in accordance with guidance provided by the U.S. Environmental Protection Agency (USEPA; 2012).¹ For each laboratory data package, the following quality control/quality assurance criteria from the analysis of the project samples were reviewed:

- Completeness of the chain of custody (COC);
- Comparison of reporting limits to alert levels (AL) and aquifer quality limits (AQL);
- Holding times/preservation;
- Blank sample analysis;
- Laboratory control samples;
- Matrix spike samples;
- Laboratory and field duplicate sample analysis; and
- Verification of laboratory report data.

Sample data were qualified by the laboratory in accordance with laboratory standard operating procedures (SOP). Based on a check of the data qualifiers assigned to the project sample results, these flags were applied to the reported results in accordance with the laboratory-specific SOP.

¹ USEPA, 2012. USEPA Region 9 Guidance for Quality Assurance Program Plans, R9QA/03.2. March.

COMPLETENESS WITH CHAIN OF CUSTODY

Samples were collected, preserved, and shipped following standard COC protocol. Samples were also received appropriately, identified correctly, and analyzed according to the COC. COCs were appropriately signed and dated by the field and/or laboratory personnel with the following exceptions:

- For all laboratory reports, the second COC for Radiation Safety Engineering, Inc. (Radiation Safety) is missing a relinquished signature from the primary lab. However, Haley & Aldrich, Inc. maintains records of samples being relinquished to Radiation Safety.
- In laboratory reports 23H0177, 23H0178, 23I0436, and 23I0437, the second COC for Radiation Safety has additional signatures provided for releases that do not match with the transfer of any samples. These signatures are dated after the samples were received by Radiation Safety. These laboratory reports include samples M59-O-080123, M59-O-091323, M60-O-080123, and M60-O-091323.

REPORTING LIMITS

The reporting limits and/or method detection limits were at or below the applicable ALs and AQLs.

HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified as per each method's protocol with the following exceptions:

Laboratory Report	Method	Matrix	Holding Time	Preservation	Sample ID, Violation, Qualification
23G0301	All	Water	Various	Cool to $\leq 6^{\circ}\text{C}$	The cooler containing the following samples was received warm at 6.2°C : M57-O-071023 M57R-O-071023 M55-UBF-071023 M56-LBF-071023 M58-O-071023
23G0527	All	Water	Various	Cool to $\leq 6^{\circ}\text{C}$	The cooler containing the following samples was received warm at 9.8°C : M52-UBF-071723

BLANK SAMPLE ANALYSIS

Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

LABORATORY CONTROL AND MATRIX SPIKE SAMPLES

Compounds associated with the laboratory control sample, matrix spike, and matrix spike duplicate analyses exhibited recoveries and relative percent differences (RPD) within the specified limits.

LABORATORY AND FIELD DUPLICATE SAMPLES

The RPDs for laboratory duplicate analysis were all below 20 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the reporting limit).

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The following samples were collected for field duplicate analysis and the RPDs were all below 35 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the reporting limit) with the following exceptions:

Primary Sample ID	Duplicate Sample ID	Methods for Which Field Duplicates Were Analyzed
MW-01-O-071123	MW-001-O-071123	Anions by USEPA 300.0 Total dissolved solids by SM 2540C Metals by USEPA 200.7 & USEPA 200.8
M61-LBF-071223	M161-LBF-071223	
Notes: SM = Standard Method USEPA = U.S. Environmental Protection Agency		

VERIFICATION OF LABORATORY REPORT DATA

A minimum of 10 percent of the data reported by the laboratory were verified against the electronic data deliverables.

ATTACHMENT 7

Results of Monthly Lixiviant Organic Analysis

TABLE 1
MONTHLY LIXIVIAN (RAFFINATE) MONITORING RESULTS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

Analyte	Units	Sample Date		
		7/18/2023	8/21/2023	9/13/2023
Benzene	mg/L	< 0.0005	< 0.0005	< 0.0005
Ethylbenzene	mg/L	< 0.0005	< 0.0005	< 0.0005
Napthalene	mg/L	< 0.002	< 0.002	< 0.002
nOctane	mg/L	< 0.0005	< 0.0005	< 0.0005
Toluene	mg/L	< 0.0005	< 0.0005	< 0.0005
Xylenes, Total	mg/L	< 0.0015	< 0.0015	< 0.0015
TPH-Diesel	mg/L	< 0.10	0.71	< 0.10
Total Organics	mg/L	< 0.10	< 0.10	< 0.10
Maximum Allowable Average Total Organics	mg/L	10	10	10

Notes:

mg/L = milligrams per liter

TPH = total petroleum hydrocarbons

ATTACHMENT 8

Results of Mechanical Integrity Testing

TABLE 1**Q3 2023 MECHANICAL INTEGRITY TESTS**

FLORENCE COPPER LLC

FLORENCE, ARIZONA

Q3 2023 Mechanical Integrity Tests			
Well ID	Temperature Log Date	Pressure Test Date	Pass (P) Fail (F)
WB-01	7/26/2023	NA	P
WB-02	7/26/2023	NA	P
WB-03	7/26/2023	NA	P
WB-04	7/26/2023	NA	P

Notes:*Temperature log report sent to EPA under separate cover.*

ATTACHMENT 9

Results of Annular Conductivity Device Monitoring



ANNULAR CONDUCTIVITY DATA QA PROCEDURE & DOCUMENTATION FORM (V.1)

GENERAL

HGI Project Name: 2018-030 – FCP Bulk & Annular Conductivity Monitoring	Project Site: Florence Copper Project	Weather Conditions: Sunny 106°F
Date 070523	Field Operator Name: Ryan R.	Start and End Time: 10:35 11:40

EQUIPMENT	DIAGNOSTICS	MEASUREMENT SETTINGS
(See back of sheet for detailed instructions and procedures)		
AGI MiniSting (MS) Serial #: S0608049 HGI Cray Interface Panel SN# CR-ES-002	6Ω Resistor Standard Result: 6.31 Pass Criteria: 6.25Ω ± 0.30 Circle One: Pass or Fail	- No. Cycles: 4 - Max Error: Off - Max Current: 50mA - Measure Time: 3.6 - Measure mode: RESISTANCE

DATA COLLECTION:

	WELL ID	Time (24h)	Current (I mA)	1			2			3			Data Acceptance Pass = P, Fail = F
				Reading	Resistance (ΔY= Ω)	Error (σ= %)	Reading	Resistance (ΔY= Ω)	Error (σ= %)	Reading	Resistance (ΔY= Ω)	Error (σ= %)	
1	WB04	1058	20	1	58.63	1.5	2	57.87	2.2	3	57.96	2.1	P / F
2	WB03	1103	20	4	81.52	2.5	5	78.13	0.7	6	77.29	0.6	P / F
3	WB02	1107	20	7	68.03	1.5	8	68.03	2.1	9	68.27	2.2	P / F
4	WB01	1110	20	10	50.75	1.7	11	50.28	2.5	12	50.19	2.5	P / F
5	B01	1114	20	13	72.47	0.3	14	71.75	0.9	15	71.76	1.0	P / F
6	B07	1117	20	16	68.31	2.1	17	65.95	0.9	18	65.00	0.5	P / F
7	B06	1121	20	19	60.15	0.8	20	59.24	1.6	21	58.87	1.8	P / F
8	B05	1124	20	22	90.46	0.7	23	89.38	1.2	24	89.04	1.3	P / F
9	B04	1127	20	25	53.36	1.5	26	51.69	0.4	27	51.11	0.5	P / F
10	B03	1131	20	28	65.70	1.0	29	65.23	1.9	30	61.23	1.7	P / F
11	B02	1135	20	31	53.16	2.3	32	52.94	2.8	33	52.87	2.9	P / F

Well ID's that begin with a "B" correspond to the wells that begin with an "O" in standard reporting. For example, B-01 corresponds to O-01.

DATA QUALITY ACCEPTANCE	FIELD OBSERVATIONS
Measurement Error Evaluation Pass Criteria: 66% (2/3) of measurement error values less than 5%	air lifting, well sampling

SIGNATURES

 07052023 Field Operator Signature/Date	 7/5/2023 Data Inspector Signature/Date
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ATTACHMENT 10

**Summary of Plugging and Abandonment
(Placeholder – Not Applicable for this Monitoring Period)**

ATTACHMENT 11

Table of Monthly Casing Annulus and Injection Pressures

Q3 2023 DAILY WELLHEAD PRESSURES - INJECTION WELLS

FLORENCE COPPER LLC

FLORENCE, ARIZONA

PAGE 1 OF 3

Table 1. July 2023 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
7/1/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/2/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/3/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/4/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/5/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.04	0.03	0.36	112.89
7/6/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/7/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/8/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.00	0.03	NM	NM	NM	0.04	0.00	0.05	112.89
7/9/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/10/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/11/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/12/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.00	0.03	NM	NM	NM	0.04	0.01	0.05	112.89
7/13/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/14/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/15/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/16/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/17/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.00	0.03	NM	NM	NM	0.04	0.01	0.05	112.89
7/18/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/19/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/20/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/21/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.04	NM	NM	NM	0.04	0.03	0.35	112.89
7/22/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.04	NM	NM	NM	0.04	0.03	0.05	112.89
7/23/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/24/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/25/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.03	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
7/26/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.03	0.00	0.05	112.89
7/27/2023	0.00	0.00	0.00	NM	NM	NM	0.01	0.00	0.03	NM	NM	NM	0.03	0.02	0.40	112.89
7/28/2023	0.00	0.00	0.00	NM	NM	NM	0.01	0.00	0.03	NM	NM	NM	0.03	0.02	0.40	112.89
7/29/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.03	0.03	0.40	112.89
7/30/2023	0.00	0.00	0.00	NM	NM	NM	0.01	0.00	0.03	NM	NM	NM	0.03	0.03	0.03	112.89
7/31/2023	0.00	0.00	0.00	NM	NM	NM	0.01	0.00	0.03	NM	NM	NM	0.03	0.03	0.03	112.89

Notes:

All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

7/1 - 7/31/2023 I-02 and I-04 off

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

P-Wellhead = P-TOS - P-Col = [P-Frac x D-TOS] - [D-TOS / Conv] Where:

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	=	338	psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	=	225.11	psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	=	112.89	psi

Q3 2023 DAILY WELLHEAD PRESSURES - INJECTION WELLS

FLORENCE COPPER LLC

FLORENCE, ARIZONA

Table 2. August 2023 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
8/1/2023	0.00	0.00	0.00	NM	NM	NM	0.01	0.00	0.03	NM	NM	NM	0.03	0.02	0.03	112.89
8/2/2023	0.00	0.00	0.01	NM	NM	NM	0.01	0.00	0.03	NM	NM	NM	0.03	0.02	0.03	112.89
8/3/2023	0.00	0.00	0.00	NM	NM	NM	0.01	0.00	0.03	NM	NM	NM	0.04	0.03	0.92	112.89
8/4/2023	0.00	0.00	0.00	NM	NM	NM	0.01	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/5/2023	0.00	0.00	0.00	NM	NM	NM	0.01	0.00	0.03	NM	NM	NM	0.04	0.00	0.05	112.89
8/6/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/7/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.03	0.03	0.37	112.89
8/8/2023	0.01	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.03	0.03	0.03	112.89
8/9/2023	0.01	0.00	0.03	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.04	0.02	1.84	112.89
8/10/2023	0.00	0.00	0.03	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/11/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/12/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/13/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/14/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/15/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/16/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/17/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/18/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/19/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/20/2023	0.00	0.00	0.00	NM	NM	NM	0.01	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/21/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.03	NM	NM	NM	0.04	0.03	0.05	112.89
8/22/2023	0.00	0.00	0.00	NM	NM	NM	0.01	0.00	0.03	NM	NM	NM	0.03	0.03	0.20	112.89
8/23/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.00	0.03	NM	NM	NM	0.03	0.03	0.03	112.89
8/24/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.03	0.02	0.03	112.89
8/25/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.03	0.02	0.03	112.89
8/26/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.00	0.03	NM	NM	NM	0.03	0.02	0.03	112.89
8/27/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.03	0.02	0.03	112.89
8/28/2023	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	0.03	0.02	0.03	112.89
8/29/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.01	0.03	NM	NM	NM	0.03	0.02	0.03	112.89
8/30/2023	0.00	0.00	0.00	NM	NM	NM	0.03	0.01	0.03	NM	NM	NM	0.03	0.03	0.03	112.89
8/31/2023	0.00	0.00	0.00	0.20	0.00	0.45	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89

Notes:

All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

8/1 - 8/30/2023 I-02 and I-04 off

8/31/2023 R-09 operating as recovery well

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

$P_{\text{Wellhead}} = P_{\text{TOS}} - P_{\text{Col}} = [P_{\text{Frac}} \times D_{\text{TOS}}] - [D_{\text{TOS}} / \text{Conv}]$ Where:

P_{Fracture} = Pressure allowed at the top of the injection well screen (TOS)

= 0.65 psi/foot of depth

D_{TOS} = Depth to top of injection well screens

= 520 feet

P_{TOS} = Total pressure allowed at top of screen = $P_{\text{Fracture}} \times D_{\text{TOS}}$

= 0.65 psi/foot x 520 feet

338

psi

Conv = Feet of Water per psi

= 2.31 feet/psi

P_{Col} = Pressure from weight of water column at TOS

= 520 feet / 2.31 feet/psi

225.11

psi

P_{Wellhead} = Allowable pressure at the top of the wellhead = $P_{\text{TOS}} - P_{\text{Col}}$

= 338 psi - 225.1 psi

112.89

psi

Q3 2023 DAILY WELLHEAD PRESSURES - INJECTION WELLS

FLORENCE COPPER LLC

FLORENCE, ARIZONA

PAGE 3 OF 3

Table 3. September 2023 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
9/1/2023	0.00	0.00	0.00	0.02	0.00	0.18	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/2/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/3/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/4/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/5/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/6/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/7/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/8/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/9/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/10/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/11/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/12/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/13/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/14/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/15/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/16/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/17/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/18/2023	0.00	0.00	0.00	0.58	1.83	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/19/2023	0.00	0.00	0.00	0.58	3.96	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/20/2023	0.00	0.00	0.00	0.46	5.37	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/21/2023	0.00	0.00	0.00	1.00	5.99	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/22/2023	0.00	0.00	0.00	4.45	1.40	5.94	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/23/2023	0.00	0.00	0.00	4.28	0.00	6.93	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/24/2023	0.00	0.00	0.00	5.35	0.96	7.64	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/25/2023	0.00	0.00	0.00	8.32	3.78	10.36	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/26/2023	0.00	0.00	0.00	7.14	3.46	10.31	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/27/2023	0.00	0.00	0.00	6.69	1.02	13.94	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/28/2023	0.00	0.00	0.00	0.45	0.00	4.73	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/29/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/30/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89

Notes:

All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

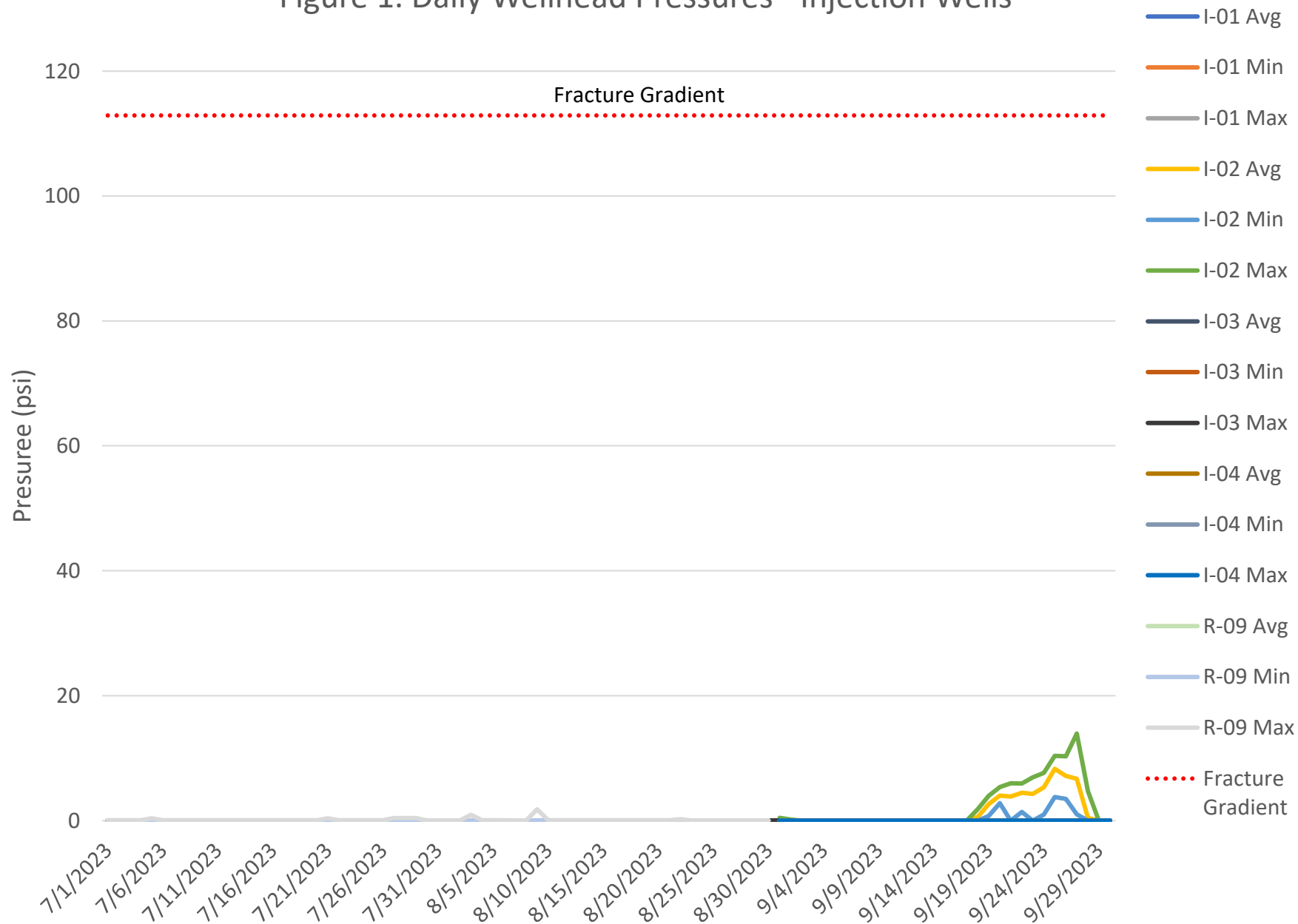
9/1 - 9/30/2023 R-09 operating as recovery well

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

$P\text{-Wellhead} = P\text{-TOS} - P\text{-Col} = [P\text{-Frac} \times D\text{-TOS}] - [D\text{-TOS} / \text{Conv}]$ Where:

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	=	338	psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	=	225.11	psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	=	112.89	psi

Figure 1. Daily Wellhead Pressures - Injection Wells



Q3 2023 DAILY WELLHEAD PRESSURES - INJECTION WELLS

FLORENCE COPPER LLC

FLORENCE, ARIZONA

PAGE 1 OF 3

Table 4. July 2023 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
7/1/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/2/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/3/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/4/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/5/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/6/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/7/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/8/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/9/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/10/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/11/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/12/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/13/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/14/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/15/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/16/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/17/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/18/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/19/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/20/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/21/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/22/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/23/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/24/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/25/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/26/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/27/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/28/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/29/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/30/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
7/31/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89

Notes:

All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

7/1 - 7/31/2023 I-02 and I-04 off

Q3 2023 DAILY WELLHEAD PRESSURES - INJECTION WELLS

FLORENCE COPPER LLC

FLORENCE, ARIZONA

Table 5. August 2023 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
8/1/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/2/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/3/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/4/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/5/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/6/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/7/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/8/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/9/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/10/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/11/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/12/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/13/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/14/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/15/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/16/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/17/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/18/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/19/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/20/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/21/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/22/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/23/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/24/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/25/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/26/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/27/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/28/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/29/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/30/2023	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	112.89
8/31/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89

Notes:

All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

8/1 - 8/30/2023 I-02 and I-04 off

8/31/2023 R-09 operating as recovery well

Q3 2023 DAILY WELLHEAD PRESSURES - INJECTION WELLS

FLORENCE COPPER LLC

FLORENCE, ARIZONA

PAGE 3 OF 3

Table 6. September 2023 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
9/1/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/2/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/3/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/4/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/5/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/6/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/7/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/8/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/9/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/10/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/11/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/12/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/13/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/14/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/15/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/16/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/17/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/18/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/19/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/20/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/21/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/22/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/23/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/24/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/25/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/26/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/27/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/28/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/29/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/30/2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89

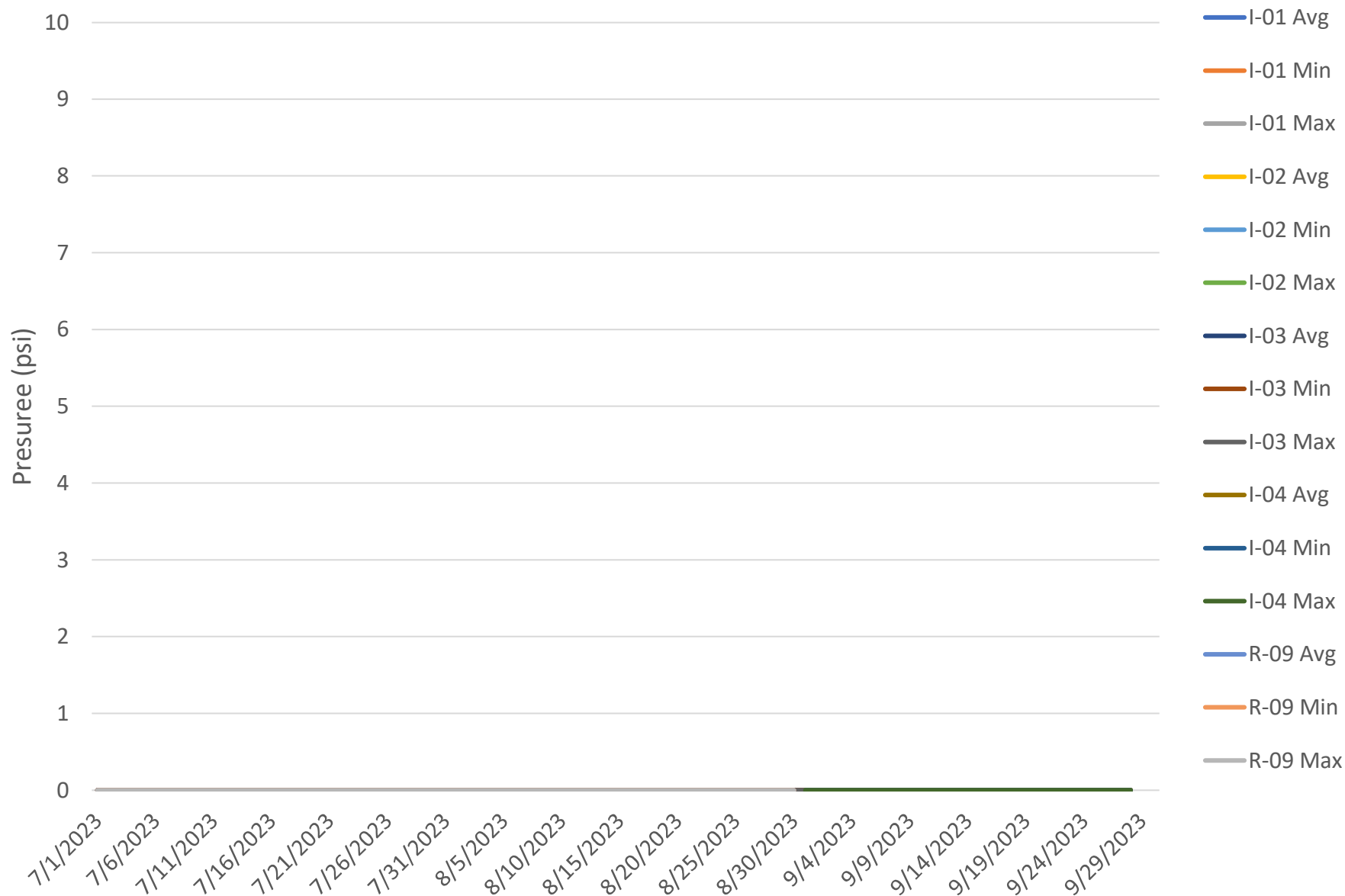
Notes:

All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

9/1 - 9/30/2023 R-09 operating as recovery well

Figure 2. Daily Casing Annulus Pressures - Injection Wells



ATTACHMENT 12

Results for Monthly Treated Water Samples

TABLE 1
Q3 2023 MONTHLY ISCR WELLFIELD WATER ANALYTICAL RESULTS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Monitoring Parameters	Maximum Ambient Water Quality ⁽¹⁾	Analytical Results		
		7/18/2023	8/22/2023	9/13/2023
Metals				
Aluminum	0.08	< 2.0	< 2.0	< 2.0
Antimony	0.0005	< 0.20	< 0.20	< 0.20
Arsenic	0.0029	< 0.0400	< 0.0400	< 0.0400
Barium	0.11	< 0.050	< 0.050	< 0.050
Beryllium	0.0005	< 0.0020	< 0.0020	< 0.0020
Cadmium	0.0014	< 0.0020	< 0.0020	< 0.0020
Chromium	0.01	< 0.030	< 0.030	< 0.030
Cobalt	0.0081	< 0.10	< 0.10	< 0.10
Copper	1.9	0.34	0.1	0.1
Iron	0.3	< 0.30	< 0.30	< 0.30
Lead	0.001	< 0.040	< 0.040	< 0.040
Magnesium	30	< 3.0	< 3.0	< 3.0
Manganese	0.12	< 0.020	< 0.020	< 0.020
Mercury	0.001	< 0.0010	< 0.0010	< 0.0010
Molybdenum	--	< 0.010	< 0.010	< 0.010
Nickel	0.015	< 0.050	< 0.050	< 0.050
Selenium	0.0039	< 0.040	< 0.040	< 0.040
Thallium	0.001	< 0.050	< 0.050	< 0.050
Uranium	--	< 0.00050	< 0.00050	< 0.00050
Zinc	1.9	< 0.040	< 0.040	< 0.040
Inorganic Parameters				
Total Alkalinity	220	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Bicarbonate	220	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Carbonate	20	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Hydroxide	2	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
pH (pH Units)	8.7	2.6	2.9	3.0
Temperature (°C)	32.4	22	22.0	22.0
Conductivity	1800	940	550	260
Calcium	140	< 4.0	< 4.0	< 4.0
Chloride	340	64	42	17
Fluoride	0.89	< 0.5	< 0.5	< 0.5
Potassium	11	< 5.0	< 5.0	< 5.0
Sodium	180	< 5.0	< 5.0	< 5.0
TDS	1100	21	25	< 20
Nitrate (as N)	9.7	3.2	2.8	2.8
Nitrite (as N)	0.1	< 0.10	< 0.10	< 0.10
Sulfate	230	14	10	7
Organic Parameters				
Benzene	0.063	< 0.00050	< 0.00050	< 0.00050
Ethylbenzene	0.054	< 0.00050	< 0.00050	< 0.00050
Naphthalene	--	< 0.002	< 0.002	< 0.002
n-octane	--	< 0.00050	< 0.00050	< 0.00050
Toluene	0.057	< 0.00050	< 0.00050	< 0.00050
Total Xylene	0.13	< 0.0015	< 0.0015	< 0.0015
Total Petroleum Hydrocarbons - Diesel	0.17	< 0.10	< 0.10	< 0.10
Radionuclide Parameters				
Gross Alpha (pCi/L)	2.8	< 0.4	< 0.4	< 0.4
Uranium Isotopes (total) (pCi/L)	30.2	< 0.4	< 0.4	< 0.4
Adjusted Gross Alpha (pCi/L)	15.4	< 0.4	< 0.8	< 0.4
Gross Beta (pCi/L)	--	2.5 ± 1.0	2.4 ± 1.1	3.5 ± 1.1
Radium Isotopes 226+228 (pCi/L)	6.2	< 0.8	0.7 ± 0.3	0.8 ± 0.2
Radon (pCi/L)	--	2347.0 ± 237.0	2351.0 ± 237.0	4252.0 ± 428.0

Notes:

(1) Maximum ambient water quality at the site pre-operation.

(2) Alkalinity analysis was not reported due to matrix interference. Sample pH was less than 4.5.

All results in milligrams per liter (mg/L) unless otherwise noted.

Non-detects are reported to the laboratory reporting limit

Radionuclide data presented as result ± uncertainty

ISCR = in-situ copper recovery

pCi/L = picocuries per liter

ATTACHMENT 13

Migratory Bird Landings

TABLE 1

Q3 2023 OBSERVED MIGRATORY BIRD LANDINGS

FLORENCE COPPER LLC

FLORENCE, ARIZONA

Date	Migratory Bird Species	Comments:	Fatality (Y or N)
-	-	-	-

Notes:

Florence Copper personnel conduct daily inspections of the Process Solution Impoundment and BHP Pond. There were no reported migratory bird landings during Q3 2023.