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November 10, 2019

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**Subject: October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup, PG&E Topock Compressor Station, Needles, California**  
(Document ID: TPK\_Monthly\_Progress\_Rpt\_September\_2019\_20191010\_Final)

Dear Ms. Innis and Mr. Yue:

In compliance with the *1996 Corrective Action Consent Agreement* (CACA) (Attachment 6, Part E, Section 9a and Attachment 7) and the *2013 Remedial Design/Remedial Action Consent Decree* (CD) (§32 and Appendix C, Section 5), and pursuant to the *Construction/ Remedial Action Work Plan* (C/RAWP) (Section 2.6.3.1), this monthly report describes activities taken at Pacific Gas and Electric Company's (PG&E's) Topock Compressor Station during October 2019 as well as activities planned for the next six weeks (November 1 through December 14, 2019), and presents available results from sampling and testing performed in October 2019.

In addition, this report discusses material deviations from the approved design documents and/or the C/RAWP, if any, that PG&E has proposed to the California Department of Toxic Substances Control (DTSC) and the U.S. Department of the Interior (DOI), or that have been approved by DTSC and DOI. This report also highlights key personnel changes, if any, and summarizes activities performed and activities planned in support of DOI's 2012 Community Involvement Plan and DTSC's 2019 Community Outreach Plan, as well as contacts with the local community, representatives of the press, and/or public interest groups, if any. This report also includes data from samples collected as part of the sitewide groundwater monitoring program within 60 days of sample collection, as required by the Condition of Approval # xi in DTSC's approval letter dated August 24, 2018.

Please note that since activities conducted to comply with the project's Applicable or Relevant and Appropriate Requirement (ARARs) and the Subsequent Environmental Impact Report (SEIR) mitigation measures are currently reported in separate compliance reports, this information is not repeated in the monthly reports.

Monthly progress reports will be submitted to DTSC and DOI by the 10<sup>th</sup> day of the following month during construction and start-up of the groundwater remedy at the Topock Compressor Station which officially began on October 2, 2018. This is the thirteenth monthly progress report. Please contact me at (760) 791-5884 if you have any questions or comments regarding this submittal.

Sincerely,

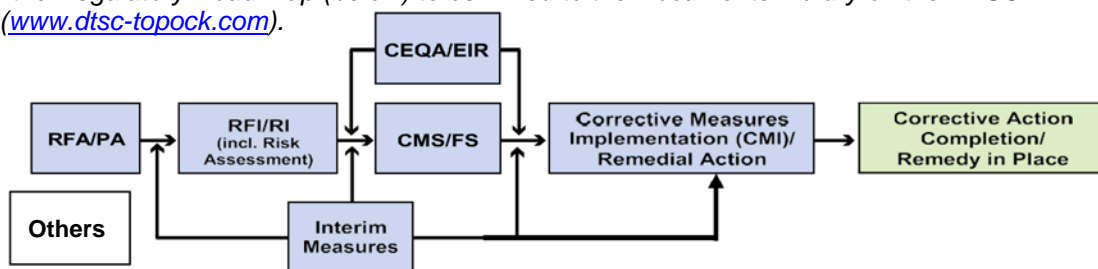
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# Topock Project Executive Abstract

<p>Document Title: <i>October 2019 Monthly Progress Report for the Groundwater Remedy Construction and Startup, PG&amp;E Topock Compressor Station, Needles, California</i></p> <p>Submitting Agency: DOI, DTSC</p> <p>Final Document?     <input checked="" type="checkbox"/> Yes     <input type="checkbox"/> No</p>	<p>Date of Document: 11/10/2019</p> <p>Who Created this Document?: (i.e. PG&amp;E, DTSC, DOI, Other) PG&amp;E</p>
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<p>What does this information pertain to?</p> <p><input type="checkbox"/> Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA)/Preliminary Assessment (PA)</p> <p><input type="checkbox"/> RCRA Facility Investigation (RFI)/Remedial Investigation (RI) (including Risk Assessment)</p> <p><input type="checkbox"/> Corrective Measures Study (CMS)/Feasibility Study (FS)</p> <p><input checked="" type="checkbox"/> Corrective Measures Implementation (CMI)/ Remedial Action(RA)</p> <p><input type="checkbox"/> California Environmental Quality Act (CEQA)/ Environmental Impact Report (EIR)</p> <p><input type="checkbox"/> Interim Measures</p> <p><input type="checkbox"/> Other / Explain:</p>	<p>Is this a Regulatory Requirement?</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>If no, why is the document needed?</p>
<p>What is the consequence of NOT doing this item? What is the consequence of DOING this item?</p> <p>The consequence for not doing this item is PG&amp;E will be out of compliance with the 1996 Corrective Action Consent Agreement (CACA) and the 2013 Remedial Design/ Remedial Action Consent Decree (CD), as well as the Construction/Remedial Action Work Plan (C/RAWP).</p>	<p>Other Justification/s:</p> <p><input type="checkbox"/> Permit     <input type="checkbox"/> Other / Explain:</p>
<p>Brief Summary of attached document:</p> <p>This monthly report describes activities taken during October 2019 and activities planned for the next six weeks (November 1 through December 14, 2019) and presents available results from sampling and testing in October 2019. In addition, this report discusses material deviations from the approved design documents and/or the <i>Construction/ Remedial Action Work Plan</i> (C/RAWP), if any, that PG&amp;E has proposed to the California Department of Toxic Substances Control (DTSC) and the U.S. Department of the Interior (DOI) or that have been approved by DTSC and DOI. This report also highlights key personnel changes, if any, and summarizes activities performed and activities planned at the Topock Compressor Station in support of DOI's 2012 Community Involvement Plan and DTSC's 2019 Community Outreach Plan, as well as contacts with local community, representatives of the press, and/or public interest groups, if any.</p> <p>Written by: Pacific Gas and Electric Company</p>	
<p>Recommendations:</p> <p>Provide input to PG&amp;E.</p>	
<p>How is this information related to the Final Remedy or Regulatory Requirements:</p> <p>This submittal is required in compliance with the CACA, CD, and pursuant to the C/RAWP.</p>	
<p>Other requirements of this information?</p> <p>None.</p>	

Related Reports and Documents:

Click any boxes in the Regulatory Road Map (below) to be linked to the Documents Library on the DTSC Topock Web Site ([www.dtsc-topock.com](http://www.dtsc-topock.com)).



Legend

RFA/PA – RCRA Facility Assessment/Preliminary Assessment

RFI/RI – RCRA Facility Investigation/CERCLA Remedial Investigation (including Risk Assessment)

CMS/FS – RCRA Corrective Measure Study/CERCLA Feasibility Study



October 2019  
Monthly Progress Report for the  
Final Groundwater Remedy Construction and Startup

PG&E Topock Compressor Station  
Needles, California

Document ID: TPK\_Monthly\_Progress\_Rpt\_October\_20191110\_Final

November 2019

*Prepared for*  
U.S. Department of the Interior and California Department of Toxic Substances Control

*On Behalf of*  
Pacific Gas and Electric Company



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## Acronyms and Abbreviations

µg/m <sup>3</sup>	micrograms per cubic meter
AOC	Area of Concern
APE	Area of Potential Effect
ARAR	applicable or relevant and appropriate requirement
bgs	below ground surface
BLM	U.S. Bureau of Land Management
BMP	best management practice
CACA	Corrective Action Consent Agreement
C/RAWP	Construction/Remedial Action Work Plan
CD	Consent Decree
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CH2M	CH2M HILL, Inc.
CHQ	Construction Headquarters
DOI	United States Department of the Interior
DTSC	California Department of Toxic Substances Control
ERTC	Environmental Release to Construct
FCR	field contact representative
LOC	level of concern
NTH	National Trails Highway
PBA	Programmatic Biological Agreement
PG&E	Pacific Gas and Electric Company
RCRA	Resource Conservation and Recovery Act
SEIR	Subsequent Environmental Impact Report
SPY	Soil Processing Yard
SWPPP	Stormwater Pollution Prevention Plan
TCS	Topock Compressor Station
TRC	Technical Review Committee
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
WEAT	Worker Environmental Awareness Training
WVR	Work Variance Request

## 1. Introduction

Pacific Gas and Electric Company (PG&E) is implementing the final groundwater remedy to address chromium in groundwater near the PG&E Topock Compressor Station (TCS), located in eastern San Bernardino County 15 miles southeast of the city of Needles, California.

The U.S. Department of the Interior (DOI) is the lead federal agency overseeing remedial actions at the TCS. PG&E and the United States executed a Remedial Design/Remedial Action Consent Decree (CD), on behalf of the DOI, under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) in 2012, which was approved by the U.S. District Court for the Central District of California in November 2013 (DOI, 2013). Paragraph 32 and Appendix C (Section 5) of the CD requires PG&E to submit to DOI electronic progress reports during construction of the remedial action and on a quarterly basis after the selected remedy has been implemented and demonstrated to be operating as intended.

The California Department of Toxic Substances Control (DTSC) is the lead state agency overseeing corrective actions at the TCS. Remedial activities are being performed in conformance with the requirements of the Resource Conservation and Recovery Act (RCRA) Corrective Action pursuant to a Corrective Action Consent Agreement (CACA) entered into by PG&E and the DTSC in February 1996 (DTSC, 1996). Attachment 6, Part E, Section 9a and Attachment 7 of the CACA require PG&E to provide certain information in monthly progress reports during construction of the corrective action.

In compliance with the above CACA and CD requirements, PG&E proposed a template for the monthly progress reports in Exhibit 2.6-2 of the Construction/Remedial Action Work Plan (C/RAWP) (CH2M HILL, Inc. [CH2M], 2015b). The C/RAWP was approved by DOI on April 3, 2018 (DOI, 2018) and DTSC on April 24, 2018 (DTSC, 2018a).

This is the thirteenth of the monthly progress reports that will be submitted to DOI and DOI for the duration of the remedy construction and startup. This monthly progress report documents activities during August 2019, and follows the content and format described in Exhibit 2.6-2 of the approved C/RAWP. The report is organized as follows:

- **Section 2.1** describes completed construction activities; data collected, generated or received; nature and volume of waste generated; waste handling/disposal; issues encountered; actions taken to rectify problems/issues; personnel changes; and Work Variance Requests (WVRs; i.e., material deviations from the design documents, the C/RAWP, or other approved work plans), if any, as well as agencies' actions on those requests, and potential schedule impacts.
- **Section 2.2** summarizes contacts with representatives of the press, local community, or public interest groups during the reporting period, other activities provided to assist DTSC and/or DOI in support of the Community Outreach Plan (DTSC, 2019) and/or Community Involvement Plan (DOI, 2012), respectively, and anticipated near-term (approximately next six weeks) activities in support of the Community Outreach and Community Involvement Plans.
- **Section 2.3** describes the planned activities for the next six weeks (construction activities, sampling and monitoring events, etc.).
- **Section 2.4** provides information relating to the construction schedule progress, sequencing of activities, information regarding percentage of completion, unresolved delays encountered or anticipated that may affect the future schedule, and a description of efforts made to mitigate those delays or anticipated delays, if any.
- **Section 3** lists the references cited in this report.

Please note that since activities conducted to comply with the project's Applicable or Relevant and Appropriate Requirement (ARARs) and the Subsequent Environmental Impact Report (SEIR; DTSC, 2018b) mitigation measures are currently reported in separate compliance reports, the same information is not repeated in the monthly reports.

## 2. Monthly Update

### 2.1 Description of Activities and Work Completed

#### 2.1.1 Work Completed

Highlights of key activities related to the construction of the groundwater remedy completed during October 2019 include the following (in chronological order):

- On July 13, 2018, PG&E sent via email the first weekly six-week look-ahead schedule for the remedy construction field work. The weekly emails provide highlights of field activities in the previous week, field activities scheduled for the next week, and planned activities for the next six weeks. Recipients of the weekly emails are DOI, DTSC, the U.S. Fish and Wildlife Service (USFWS), the California Regional Water Quality Control Board (CRWQCB), the Metropolitan Water District of Southern California, Tribes, and the Technical Review Committee (TRC). PG&E continues to send these weekly emails to date. As of October 30, 2019, a total of 68 six-week look-ahead schedule emails have been sent. **Of those, four six-week look-ahead schedule emails were sent in October 2019 (on October 6, 13, 20, and 27).**
- On August 10, 2018, PG&E issued the first Environmental Release to Construct (ERTC) to contractors. As of October 31, 2019, a total of 51 ERTCs were issued for mobilization and construction activities (see Table 2-1). **Three new ERTCs were issued in the month of October for the installation of MW-70BRd, Hydro-6 monitoring well, and Pipeline C Segment C14.**
- Starting on October 4, 2018, PG&E has published a daily construction activities list and discussed the list at the morning tailboards with Tribes and agency representatives. This daily list is intended to inform and facilitate observation by Tribes and agency representatives on site on that day. PG&E continues to publish these daily lists and discuss the list at the daily morning tailboards to date. **In October 2019, a total of 25 daily construction activities lists were published and discussed at the morning tailboards.**
- In October 2019, PG&E completed the following construction activities (see Figures 2-1 and 2-2 for locations of key areas and wells, as well as select photos in **Attachment A**):
  - **Pilot Boring/Well Installation Activities (Rotasonic drilling):**
    - a) Abandoned the damaged well MW-S and MW-D (shallow).
    - b) Completed installation of replacement wells at MW-B, MW-D (shallow), and MW-S.
    - c) Completed installation of MW-11D.
    - d) Completed well development at MW-X, MW-Y', MW-B, and MW-D.
  - **Remedy Well Installation and Testing Activities:**
    - a) Completed remedy well installation at IRZ-37, IRZ-39, and RB-2.
    - b) Completed well development at RB-4 and RB-5.
    - c) Completed injectivity test with freshwater at IRZ-25.
  - See **Attachment B** for available information such as boring/well construction logs (presented in a separate PDF for clarity), water analytical results from well drilling, and remedy well testing activities (presented in a separate PDF for clarity).
    - a) Note that **Attachment B** includes information from monitoring wells used for remedy well testing requested by Hargis and Associates, on behalf of the Fort Mojave Indian Tribe [FMIT] at the August 22, 2019 Tribal Monthly Update [TMU]) and by the FMIT in a letter to DTSC and DOI dated October 10, 2019.
    - b) In addition, per the FMIT's October 10, 2019 request, a sample specific capacity testing plan and a sample injectivity testing plan is also included in **Attachment B**. A testing plan will be

tailored for each remedy well using the testing rates shown in Table 1 – Target Well Testing Rates for Injection/Specific Capacity Tests.

– **Baseline/Opportunistic Soil Sampling Activities:**

- Pursuant to the Baseline Soil Sampling and Analysis Plan (Appendix A of the Soil Management Plan [which is Appendix L of the C/RAWP]), the following soil samples were collected in October 2019:
  - On October 4, 2019, one soil sample was collected at 1 foot below ground surface (bgs) at MW-70BR.
  - On October 21, 2019, one soil sample was collected at the bottom of trench at the junction of Pipelines B and J.
  - On October 24, 2019, one soil sample was collected at the bottom of trench along Pipeline C, Segment C14.
  - On October 24, 2019, one soil sample was collected at the Hydro-6 monitoring well.
- See **Attachment C** for information about soil sampling locations and soil analytical results that are available at this time.

– **Perimeter Air Sampling Activities:**

- a) Dust monitoring/observation was conducted through October 31, 2019 at the perimeter of select work areas.
- b) Perimeter air sampling for hexavalent chromium is performed at the perimeter of the work areas (outside of the exclusion zone) that are inside or within 20 feet of Areas of Concern (AOCs) and within the construction footprint where hexavalent chromium concentrations in soil have been historically reported. Five perimeter air sampling events were conducted in October 2019, during site preparation and drilling activities at MW-70BR in AOC 10 (East Ravine).
- c) See **Attachment D** for information about air sampling locations and air analytical results.

– **Noise Monitoring Activities:**

- a) Noise monitoring is conducted at pre-approved locations closest to the construction activities. Through October 31, 2019, noise monitoring was conducted at the following pre-approved locations:
  - Location west of the mobile home park at Moabi Regional Park,
  - Location Maze A Area 2,
  - Location Maze B Combined Area 1/2,
  - Location Maze C Area 1,
  - Location mobile home park at Topock Marina.
- b) See **Attachment E** for information about pre-approved noise monitoring locations and a summary of noise monitoring data available to date.

### **2.1.2 Work Already Underway and During Implementation**

As of October 31, 2019, PG&E has started and will continue to perform the following activities:

- Complete installation of MW-70BR, Hydro-6 well, and IRZ-17.
- Continue to install Pipeline B/J.
- Continue installation of Pipeline C, Segments C5, C7 and C14, under and in the vicinity of BNSF railroad track.
- Continue planning for the installation of Pipeline C6 on the MW-20 Bench.

- Continue to conduct noise and dust monitoring and inspection of Stormwater Pollution Prevention Plan (SWPPP) Best Management Practices (BMPs).
- Continue to track and manage waste generated.
- Continue to manage displaced soil per the approved Soil Management Plan (Appendix L of the C/RAWP).

### 2.1.3 Freshwater Usage, Waste Generation and Management

As of October 31, 2019, the volumes of freshwater used for remedy construction and waste streams generated from remedy construction (starting on October 2, 2018) are as follows:

#### **Freshwater Usage and Wastewater Management**

- An approximate total of 4,045,250 gallons (12.4 acre-feet) of freshwater was used, of which an approximate 20.2 percent was for pilot boring/well installation and general construction, 0.73 percent for hydrostatic testing of pipeline, and 79.1 percent was for fugitive dust suppression. Of this amount, 382,500 gallons of freshwater was used in October 2019.
- An approximate total of 45,820 gallons of hydrostatic testing water was discharged to land. Of this amount, 44,500 gallons were discharged in May 2019, 1,100 gallons were discharged in June 2019, and 220 gallons were discharged in October 2019. No hydrostatic testing activities occurred in July, August, and September 2019. All discharges to land comply with the substantive requirements of State Water Resources Control Board (SWRCB) Water Quality Order 2003-0003-DWQ. See **Attachment F** for approximate volume at each approved discharge location and date of each discharge.
- In addition to the 18,250 gallons of freshwater used for the injectivity tests at the lower screen at IRZ-20 and the upper screen at IRZ-21 in September 2019 (and reported in the September Monthly Progress Report), an additional 9,111 gallons was also used for the September injectivity test at IRZ-20 (upper screen). In October 2019, an approximate total of 22,515 gallons was used for injectivity tests at the upper and middle screens of IRZ-25. To date, a total of 49,876 gallons of injectivity testing water was discharged to land. Information related to this discharge is included in **Attachment F**, as required by the substantive requirements of SWRCB Water Quality Order 2003-0003-DWQ.
- On October 2019, IM3 treated about 39,000 gallons of wastewater generated from drilling operations. The discharge complies with the IM3 Applicable, Relevant, and Appropriate Requirements (ARARs). No remedy wastewater was sent to IM3 in September 2019.
- An approximate total of 511,087 gallons of wastewater generated from drilling operations were discharged to Compressor Station evaporation pond #4. In October 2019, 98,037 gallons of wastewater was discharged to pond #4. The discharge complies with the Waste Discharge Requirements (WDRs) of the California Regional Water Quality Control Board (CRWQCB), Colorado River Basin Region, Order No. R7-2018-0022.

At each sonic drilling location, the wastewater is initially stored in a holding tank in the primary work zone, and is transferred from the primary work zone, as needed, to 20,000-gallon frac tanks located at the MW-20 Bench. Each transfer load is tracked. At each dual rotary drilling location, freshwater and wastewater are conveyed between the frac tanks and the drilling location via pipes. Once a frac tank is full, its contents is characterized and managed in accordance with the approved Waste Management Plan (Appendix R of the C/RAWP).

#### **Displaced Materials/Soils/Clay**

- Approximately 467.3 cubic yards of displaced materials (drill cuttings from well drilling and geotechnical investigation, and excess soil from potholing activities) were generated. Drill cuttings are typically stored in roll-off bins with closed tops. Displace clay materials are handled in accordance with the special clay handling protocol as specified in the Addendum to the SMP dated May 28, 2019. Samples are collected for characterization and analyzed in accordance with the Soil Management Plan (SMP).

- In October 2019, a 1.5-foot thick clay lens was encountered at 45 feet below ground surface (bgs) at well MW-D (replacement borehole). The clay was collected in a plastic bag and will be analyzed in accordance with the SMP and handled per the special clay handling procedure.
- Approximately 20 cubic yards of drill cuttings generated in June 2019 and excess material from potholing activities conducted in May 2019 contain hexavalent chromium at concentrations slightly above the interim screening level (i.e., background concentration for hexavalent chromium). A waste profile has been accepted by US Ecology. This material was shipped offsite on October 1, 2019 for disposal at US Ecology landfill in Beatty, Nevada.
- In March 2019, approximately 40 cubic yards of displaced soil was generated from potholing activities at the MW-20 Bench and along remedy pipeline alignment in the shoulder of NTH to pre-characterize soil in preparation for pipeline installation. Samples were collected for characterization in accordance with the Soil Management Plan. These soils are currently stored in bins at the SPY. **A decision on the final disposition of these soils is forthcoming.**
- In February 2019, approximately 100 cubic yards of displaced soil was generated from excavation for the brine tanks containment upgrade at the MW-20 Bench. Samples were collected for characterization and analyzed in accordance with the Soil Management Plan. This soil is currently stockpiled on a plastic liner at the SPY. **A decision on the final disposition of this soil is forthcoming.**
- Displaced sands from construction of Pipeline C3-C5 in the floodplain was used as pipe bedding material for Pipeline B/J. As of early October, those displaced sands from the floodplain have been mostly consumed and therefore, import sands from CEMEX quarry in Bullhead, AZ have been used.
- Displaced material from trenching along Pipeline B/J alignment (rocks, soils) has been and will continue to be used to repair/build a 2-foot berm to control erosion and fill in existing eroded channels along the alignment.

#### **General Construction Waste, Sanitary Waste, and Recyclables**

- In October 2019, approximately 90 cubic yards of general construction waste were generated and transported to Republic Services in Lake Havasu City for disposal and management.
- Sanitary waste from construction trailers/portable toilets is hauled offsite as needed.

#### **2.1.4 Worker Training and Education**

- PG&E continues to provide the mandatory Site Health and Safety Training for its employees and contractors on a daily basis. As of October 31, 2019, a total of 111 health and safety training sessions were held and 358 employees and contractors received the training. **Of those, in October 2019, five sessions were conducted and six employees/contractors were trained.** After the training, the attendees signed the training roster.
- PG&E continues to provide the mandatory Worker Environmental Awareness Training (WEAT) to its employees and contractors that will be involved in the remedy construction project. The training is offered regularly on Mondays and Thursdays, and more frequently as needed. As of October 31, 2019, a total of 115 WEAT sessions were conducted and 416 employees and contractors received the training. **Of those, in October 2019, six sessions were conducted and 14 employees/contractors were trained.** Educational brochures are made available to attendees of the training; they are designed to reinforce the key topics and highlight the take-aways discussed during the classroom training. After the training, the attendees signed the WEAT Completion Form.
- **In October 2019, seven WEAT refresher sessions were conducted and 125 employees/contractors were retrained.**
- PG&E's onsite biologist also trained Field Contact Representatives (FCRs), who will be responsible for compliance with biological avoidance and mitigation measures. As of October 31, 2019, a total of 11 FCR training sessions were conducted and 55 employees and contractors received the training. **No FCR training was conducted in October 2019.**

- Training records are kept electronically and at the temporary construction trailers at the SPY. The records are available upon request.

### **2.1.5 Status of Work Variance Requests (WVRs)**

DTSC and DOI approved WVR #8 on October 4 and 8, 2019, respectively. WVR #8 proposed a revision to the alignment of pipeline segment C6 on the eastern slope of the MW-20 Bench. The purpose of WVR #8 is to reduce the amount of soil disturbance, reduce the number of plants to be removed, reduce the safety risks associated with construction atop the MW-20 bench, and reduce the hazards associated with operation at the MW-20 bench during construction. See Table 2-2 for information regarding activities related to previously proposed WVRs (i.e., material deviations from the design documents, the C/RAWP, or other approved work plans), and agencies' actions on those requests.

### **2.1.6 Use of Future Activity Allowance**

There was no proposed use of Future Activity Allowance (FAA) to date.

### **2.1.7 Issues Encountered and Actions Taken to Rectify Issues/Problems**

- On October 10, 2019, the site was shut down due to high wind, sustained at 28 miles per hour in the flood plain.
- On October 17, 2019, several big horn sheep approached the MW-S drilling area. The drilling operation was shut down until the sheep move away on their own.
- Installation of MW-S was started on 9/25/19. During installation of the grout, two 50-gallon lifts were used to bring the grout to the top of casing. After the first 10-foot section of outer drill casing was removed, the well casing was observed to be approximately 3 inches higher than initially installed. Following the observation of the elevated casing, the well was bailed to evaluate if damage to the well had occurred. Grout was observed during bailing and the well was determined to have been damaged. After discussion with the agencies, PG&E over-drilled the damaged well, however, the over drill was not successful. PG&E abandoned the borehole and install a new well MW-S.
- During well development of the shallowest well of the MW-D cluster on September 26, it was determined that there was about 12' of formation sand and filter pack sand in the well casing. Additional investigation led to a determination that the well has failed and PG&E installed a replacement well after discussion with the agencies.
- Based on field and well construction information, PG&E is currently evaluating the performance at RB-4 and will be discussing the results with the agencies.
- While still in progress and not finalized, significant progress has been made to resolve conflicts with Frontier's telecom line in the shoulder of NTH.
- PG&E has selected a contractor to install the jack-and-bore under NTH and is currently working with the contractor to refine its installation plan. The contractor proposed a change in the alignment of the jack-and-bore as well as locations of the bore pits. PG&E is evaluating the proposal and will discuss these changes with the agencies in an upcoming field meeting on November 7, 2019.

### **2.1.8 Key Personnel Changes**

There was no change to key PG&E project personnel in October 2019.

## **2.2 Communication with the Public**

The Topock physical model has been on display at the new Fort Mojave Indian Tribe (FMIT) Cultural Center since the open house of the center on October 21, 2019. The model is used to show part of the activities to protect the Colorado River.

## 2.3 Planned Activities for Next Six Weeks

The planned activities for next six weeks (November 1 through December 14, 2019) include the following:

- Complete installation of Hydro-6, MW-70BR, and IRZ-17.
- Start installation of IRZ-15, IRZ-16, and MW-Z.
- Conduct well testing at IRZ-39, RB-2, and RB-3.
- Complete well development at MW-S, MW-X, IRZ-39, RB-2, and RB-3.
- Continue to install Pipeline B and J.
- Continue to install Pipeline C Segment C14 and the access road over the pipeline.
- Start installation of Pipeline C8 in the floodplain.
- Start to install Pipeline M inside TCS.
- Install electrical pad at the Construction Headquarters.
- Continue to conduct noise and dust monitoring and inspection of SWPPP BMPs.
- Continue to log and manage waste generated.
- Continue to manage displaced soil per the approved Soil Management Plan.

**Attachment H** contains the six-week look-ahead schedule available at this time. Any adjustments to the schedule will occur as needed via the weekly emails (sent at the end of each week) and/or the daily list of construction activities (published daily and discussed with agency and Tribal representatives on site on that day).

## 2.4 Construction Schedule Review

Phase 1 of the groundwater remedy construction started on October 2, 2018. Table 2-3 presents a summary of the percent completeness for key construction activities as of October 31, 2019.

In addition, the latest project schedule including Phase 1 construction can be downloaded from the project website at <https://dtsc-topock.com/documents/project-schedule/current-project-schedule>.

## 2.5 Available Sitewide Groundwater Monitoring Data (DTSC Condition of Approval xi)

Pursuant to Condition of Approval # xi in DTSC's approval letter dated August 24, 2018 (DTSC, 2018a), PG&E is required to report data from samples collected as part of the sitewide groundwater monitoring program within 60 days of sample collection. In compliance with this requirement, PG&E submitted validated data to DTSC via monthly emails. For ease of recordkeeping and to minimize the number of ad-hoc compliance reports/emails, PG&E has included validated data in each monthly progress report starting with the November 2018 report (see **Attachment I**).

## 3. References

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## Tables

**Table 2-1 Summary of Environmental Release-To-Constructions (ERTCs) Issued to Contractors***October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup**PG&E Topock Compressor Station, Needles, California*

ERTC No.	Brief Description of Covered Areas and Scope of Authorized Activities	Issue Date
<b>Non-Well ERTCs</b>		
1	Initial mobilization activities at the Construction Headquarters (CHQ), Soil Processing Yard (SPY), and three staging areas (#9 Parking area off I-40, #18 MW-20 Bench, and #23 Transwestern Bench). Scope included installation of temporary construction trailers, portable generators, SWPPP BMPs, construction signages, and temporary construction fencing, as well as equipment staging and truck inspections.	August 10, 2018
Addendum 1 to ERTC #1	Scope included setup of wastewater and freshwater storage tanks at MW-20 Bench, improvement of the access road at the CHQ, installation of perimeter fence at the SPY, and grading at SPY.	September 21, 2018
Addendum 2 to ERTC #1	Scope included grading for drill rig setup at IRZ-20.	October 4, 2018
Addendum 3 to ERTC #1	Scope included geotechnical investigation in the footprint of the future Carbon Amendment building at the MW-20 Bench.	October 9, 2018
Addendum 4 to ERTC #1	Scope included the installation of a temporary handrail along the walkway from the MW-20 Bench to the floodplain.	December 28, 2018
2	Scope included the installation of the temporary construction water system and construction water tanks at Area #25 Route 66 Welcome Sign.	September 28, 2018
3	Scope included the installation of the Public Information Trailer, a fugitive dust sign, an information kiosk, and a construction delivery sign at the northwest corner of Park Moabi Road and National Trails Highway (NTH).	September 4, 2018
4	Scope included the installation of a truck containment pad at the TCS evaporation ponds and maintenance of the access road to the ponds.	September 24, 2018
6	Scope included the geotechnical investigation along Pipeline F alignment (on the Compressor Station entrance road).	October 3, 2018
7	Scope included the installation of traffic control along the southern end of NTH per the Traffic Control Plan.	September 17, 2018
9	Scope included the transplantation and planting of sensitive plants.	November 9, 2018
10	Scope included potholing activities along approved pipeline alignments and in building footprints, that are also in AOCs/SMWUs. The purpose is to pre-characterize soil in preparation for construction.	March 29, 2019
11	Scope included preparation of temporary staging areas, vegetation clearance, placement of stabilization mats, potholing in select locations, and installation of Pipeline C segments C1 through C6 in the floodplain.	January 3, 2019
11a	Scope included preparation of temporary staging areas, vegetation clearance, placement of stabilization mats, potholing in select locations, and installation of Pipeline C segments C7-C10, and C17 in the floodplain.	February 11, 2019
Addendum 1 to ERTC #11a	Scope included installation of Pipeline C Segment C14 along the southern access road to the floodplain (between BNSF railroad and I-40 bridges..	October 3, 2019
11b	Scope included installation of Pipelines B, F, and J.	May 31, 2019
Addendum 1 to ERTC #11b	Scope included details for installation of Pipeline B/F/J inside TCS.	July 25, 2019
12	Scope included non-intrusive site preparation work for the brine tanks containment upgrade on the MW-20 Bench (per Work Variance Request #1, see Table 2-2). A forthcoming addendum to this ERTC will be issued to include the actual upgrade activities.	January 10, 2019
12a	Scope included the actual brine tanks containment upgrade activities which include intrusive work on the MW-20 Bench (per Work Variance Request #1, see Table 2-2).	February 6, 2019
<b>Well ERTCs</b>		

**Table 2-1 Summary of Environmental Release-To-Constructions (ERTCs) Issued to Contractors**

October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup  
PG&E Topock Compressor Station, Needles, California

ERTC No.	Brief Description of Covered Areas and Scope of Authorized Activities	Issue Date
5a	Scope included the site setup, drilling, testing, and demobilization at MW-L.	September 27, 2018
5b	Scope included the placement of soil stabilization mats in the floodplain, setup of a temporary staging area near the north end of the access route in the floodplain, rig setup, installation of snow fence to protect plants, drilling, testing, and demobilization at IRZ-15.	October 12, 2018
5c	Scope included the site setup, drilling, testing, and demobilization at IRZ-20 on the MW-20 Bench.	October 15, 2018
5d	Scope included the site setup, drilling, testing, and demobilization at MW-E on the MW-20 Bench.	October 29, 2018
5e	Scope included the site setup, drilling, testing, and demobilization at MW-N in the upland.	November 15, 2018
5f	Scope included the site setup, drilling, testing, and demobilization at IRZ-13 in the floodplain.	November 7, 2018
5g	Scope included the site setup, drilling, testing, and demobilization at IRZ-23 on the MW-20 Bench.	November 8, 2018
5h	Scope included the site setup, drilling, testing, and demobilization at MW-M in the upland.	January 15, 2019
5i	Scope included the site setup, drilling, testing, and demobilization at IRZ-9 in the floodplain.	November 28, 2018
5j	Scope included the site setup, drilling, testing, and demobilization at IRZ-25 on the MW-20 Bench.	December 3, 2018
5k	Scope included the site setup, drilling, testing, and demobilization at IRZ-21 on the MW-20 Bench.	December 9, 2018
5l	Scope included the site setup, drilling, testing, and demobilization at MW-B in the floodplain.	December 10, 2018
Addendum to ERTC #5l	Scope included the setup of an additional temporary equipment and material staging area in the floodplain.	December 13, 2018
5m	Scope included the site setup, drilling, testing, and demobilization at MW-F along NTH.	December 17, 2018
5n	Scope included the site setup, drilling, testing, and demobilization at IRZ-11 in the floodplain.	December 17, 2018
5o	Scope included the site setup, drilling, testing, and demobilization at MW-X and MW-Y' in Arizona.	April 23, 2019
5p	Scope included the site setup, drilling, testing, and demobilization at MW-G along NTH.	January 14, 2019
5q	Scope included the site setup, drilling, testing, and demobilization at IRZ-16 and IRZ-17 in the floodplain.	February 14, 2019
5r	Scope included the site setup, drilling, testing, and demobilization at IRZ-27 and IRZ-29 along NTH. Also included in the scope are potholing activities along Pipeline C Segments C13, C15, and C16 and on the MW-20 Bench.	March 9, 2019
Addendum #1 to ERTC #5r	Scope included the potholing to locate Transwestern Gas Pipeline within NTH (in support of Pipeline C installation).	April 24, 2019
5s	Scope included the site setup, drilling, testing, and demobilization at IRZ-39 in the low area, north of the Transwestern Bench.	March 12, 2019
5t	Scope included the site setup, drilling, testing, and demobilization at IRZ-27 along NTH.	March 19, 2019
5u	Scope included the site setup, drilling, testing, and demobilization at MW-U in I-40 median.	March 22, 2019
5v	Scope included the site setup, drilling, testing, and demobilization at MW-10D in Bat Cave Wash.	March 27, 2019
5w	Scope included the site setup, drilling, testing, and demobilization at MW-W in the floodplain.	March 22, 2019
5x	Scope included the site setup, drilling, testing, and demobilization at RB-1 through 5 wells and MW-O in the floodplain.	March 30, 2019
5y	Scope included the site setup, drilling, testing, and demobilization at MW-S on the access road to Bat Cave Wash.	April 12, 2019
5z	Scope included the site setup, drilling, testing, and demobilization at MW-R in the Upland.	May 8, 2019

**Table 2-1 Summary of Environmental Release-To-Constructions (ERTCs) Issued to Contractors***October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup**PG&E Topock Compressor Station, Needles, California*

ERTC No.	Brief Description of Covered Areas and Scope of Authorized Activities	Issue Date
5aa	Scope included the site setup, drilling, testing, and demobilization at MW-C, MW-D, and MW-H in the floodplain	June 6, 2019
5ab	Scope included the site setup, drilling, testing, and demobilization at IRZ-19 (sonic drilling) in the floodplain	July 22, 2019
5ac	Scope included the site setup, drilling, testing, and demobilization at MW-11D (sonic drilling) in Bat Cave Wash	September 25, 2019
5ad	Scope included the site setup, drilling, testing, and demobilization at Hydro-6a monitoring well in Arizona	October 16, 2019
5ae	Scope included the site setup, drilling, testing, and demobilization at MW-70BRd in East Ravine	October 4, 2019

**Table 2-2 Summary of Work Variance Requests (WVRs)**

October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup  
PG&E Topock Compressor Station, Needles, California

WVR No.	Brief Description of Work Variance Request	Approval Dates
1	<p>This WVR addressed PG&amp;E's proposed modification to the brine tanks containment for use by the remedy, specifically:</p> <ul style="list-style-type: none"> <li>• <b>Upgrade the existing lined containment to concrete</b> - The original synthetic liner material has degraded from exposure to UV light, heat, and abrasion and must be replaced. PG&amp;E proposed to replace the synthetic-lined containment (including K-rails) with a concrete containment to support the groundwater remedy. The concrete color will be desert tan, and information on this proposed concrete color will be submitted to the agencies for review. The proposed concrete material will be similar to the material of the truck lane in the final remedy design (see Appendix E of the Final Basis of Design Report (CH2M, 2015a),* Section 033 00, Cast-In-Place Concrete).</li> <li>• <b>Shorten the length of the containment</b> - This containment will have the same height as the existing containment, but with a slightly smaller footprint (the length is 5 feet shorter). This smaller footprint still meets the required volume for a secondary containment and allows for more space for remedy construction at the tight MW-20 bench.</li> </ul>	<p>DOI approved WVR #1 on June 22, 2018</p> <p>DTSC approved WVR #1 on July 5, 2018</p>
2	<p>PG&amp;E proposed to relocate the tie-in point for remedy construction water to an aboveground location inside TCS and below the TCS Water Storage Tanks. This is to eliminate the risk of damaging the existing pressurized 6-inch water line and to avoid any interference with PG&amp;E Gas Operations control of the Station's water supply. The WVR addressed this relocation, specifically:</p> <ul style="list-style-type: none"> <li>• <b>Relocate the construction water tie-in point to an aboveground location below the TCS Water Storage Tanks, inside TCS</b> – The final design calls for the temporary construction water line to hot-tap into the existing 6-inch steel water line just as the line turns southwest to continue to TCS. PG&amp;E proposed to move the tie-in point to an aboveground valve manifold, located below the TCS Water Storage Tanks in the boneyard area.</li> <li>• <b>Extend the temporary construction water line to the new tie-in point, along Pipeline 300A access road</b> – The planned 4-inch high-density polyethylene (HDPE) temporary construction water line will be extended, following the route of the Pipeline 300A access road, to the new tie-in point inside TCS. This pipeline extension is approximately 1,950 feet and is also made of 4-inch HDPE. The pipe will be laid on ground surface and to the south of the 6-inch water line where possible. At the crossing with the SoCal Gas pipeline access road, the pipeline will be at grade with fill to allow for vehicle crossing.</li> </ul>	<p>DOI/DTSC approved WVR #2 on August 29, 2018</p>
3	<p>PG&amp;E proposed changes within the CHQ fence line to avoid/minimize the overall amount of soil disturbance during construction, reduce the number of truck trips to haul wastewater, and allow for additional working space within the yard. There are no proposed changes to the CHQ footprint nor its fence line. The specifics are described below:</p> <ul style="list-style-type: none"> <li>• <b>Relocate the decontamination pad from the western fence to the northern fence (near the western corner).</b> Based on recent survey data collected during construction, the difference in ground elevation between northern and southern end of the pad is about 4 feet. Moving the pad to the northern fence would eliminate the difference in ground elevation and reduce the amount of soil disturbance by at least 80 cubic yards.</li> <li>• <b>Bring the remedy-produced wastewater tank from belowground to aboveground, increase the tank volume from 1,000 to 2,500 gallons, and place the aboveground, double-walled tank adjacent to the decontamination pad.</b> The change from belowground to aboveground reduces the amount of soil disturbance by at least 50 cubic yards. The change to a bigger tank will reduce the amount of truck trips needed to haul wastewater. The placement of the tank adjacent to the decontamination pad allows for the pad to function as a secondary containment for the haul truck during off-loading of the wastewater.</li> <li>• <b>Defer construction of the underground sewage tanks.</b> Deferral of the underground tanks reduces the overall amount of soil disturbance by at least 800 cubic yards. All sanitary wastes will be managed in aboveground sewage tanks (similar to the ones currently used for the SPY trailers) or portable toilets.</li> <li>• <b>Swap the location of the construction trailers and the sunshade and change the configuration of the sunshade from a rectangle to a square.</b> This change will allow for more working space within the CHQ. All functions that would occur in the Workshop/Sampling Processing building will be conducted in the construction trailers.</li> </ul>	<p>DOI/DTSC approved WVR #3 on January 4, 2019</p>
4	<p>PG&amp;E proposed to revise a segment of Pipeline C near the I-40 bridge, to meet the permit requirement in Caltrans Encroachment Permit No. 08-18-6-MW-0533. The revision involves</p>	<p>DOI/DTSC approved</p>

**Table 2-2 Summary of Work Variance Requests (WVRs)**

October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup  
PG&E Topock Compressor Station, Needles, California

WVR No.	Brief Description of Work Variance Request	Approval Dates
	relocating a small segment of Pipeline C to within National Trails Highway to meet a minimum distance of 10 feet from current and future I-40 bridge footings. The treatment measure specified for Segment X of National Trails Highway in the Cultural and Historic Property Management Plan will be implemented during installation of this pipeline segment.	WVR #4 on May 14, 2019
5	PG&E proposed to phase the remedy produced water conditioning system within the approved footprint inside TCS.	DOI and DTSC approved WVR #5 on July 19 and July 22, 2019, respectively.
6	<p>In early October 2018, PG&amp;E conducted a geotechnical investigation along the Pipeline F alignment on the entrance road to the Topock Compressor Station (TCS) and the adjacent hill side. Based on the geotechnical results, the construction contractor (PIVOX) indicated that soldier piles and lagging would be required for temporary shoring. Over 40 soldier piles would be installed by drilling using a 330-sized excavator or larger. A 330-sized excavator has a general width of 11 feet, and counter weight clearance of approximately 4 feet. During operation, this rig would occupy a minimum 15 to 16 feet width of the TCS entrance road for about 12 days. The paved width of the road is between 22 to 24 feet in the area of shoring (per review of the location via Google Earth).</p> <p>Assuming a minimum clearance of 1 foot (which is still less than the recommended clearance) from any operating equipment, there will be approximately 5 to 8 feet of available lane width for access by TCS traffic. Large vehicles (tractor-trailers, delivery trucks, construction equipment) will likely not be able to pass by the active operation, and passenger vehicles may also not be able to pass the active operation in locations where the road narrows. Also, the excavator cannot be repositioned while soldier piles are being drilled. In sum, access to TCS will be severely restricted for about 12 days. This is not acceptable for Compressor Station operations.</p> <p>Therefore, PG&amp;E proposed to realign Pipeline F (starting from segment F3) along the approved alignment of Pipelines B and J. Construction of Pipelines F, B, and J would occur in the same alignment and at the same time.</p>	DOI and DTSC approved WVR #6 on May 21 and May 22, 2019, respectively.
7	<p>This WVR proposed the following changes to remedy infrastructure at the CHQ and SPY.</p> <p><b>a) Locate all temporary office and break trailers at the SPY.</b> PG&amp;E proposed to keep the three existing office trailers at their current locations in the SPY and add two additional office trailers and one break trailer for workers. The additional trailers will be equipped with aboveground sewage tanks, similar to the existing trailers. They will also be powered by Needles Electric. This will require the original SPY fence line to be extended south/southwest to encompass these trailers and the original truck entrance from National Trails Highway to the access road east of SPY. Neither changes reduce the overall area available for soil storage.</p> <p><b>b) Eliminate the workshop/sample processing building at the CHQ.</b> The function planned for this building will be moved to the Carbon Amendment building at the MW-20 Bench. Removal of this building reduces the amount of soil disturbance by approximately 334 cubic yards.</p> <p><b>c) Eliminate the sunshade at the CHQ.</b> The function for the sunshade will be replaced by the break trailer for the workers. Removal of the sunshade reduces the amount of soil distance (i.e., installation of the footings) by approximately 14 cubic yards.</p> <p><b>d) Convert the utility pad at the CHQ to a smaller transformer/electrical panel pad.</b> With the relocation of the six trailers to SPY and elimination of the workshop/sample processing building, PG&amp;E proposed to convert the utility pad to smaller pad for a smaller transformer/electrical panel to serve the remaining trailers at the CHQ. This reduces the amount of soil disturbance by approximately 61 cubic yards.</p>	DOI and DTSC approved WVR #7 on June 14, 2019.
8	On September 12, 2019, PG&E proposed a WVR to change the alignment of pipeline segment C6 on the eastern slope of the MW-20 Bench. The purpose of the WVR is to reduce the amount of soil disturbance, reduce the number of plants to be removed, reduce the safety risks associated with construction atop the MW-20 bench, and reduce the hazards associated with operation at the MW-20 bench during construction.	DTSC and DOI approved WVR #8 on October 4 and 8, 2019, respectively.

**Table 2-2 Summary of Work Variance Requests (WVRs)**

October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup  
PG&E Topock Compressor Station, Needles, California

WVR No.	Brief Description of Work Variance Request	Approval Dates
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Note:

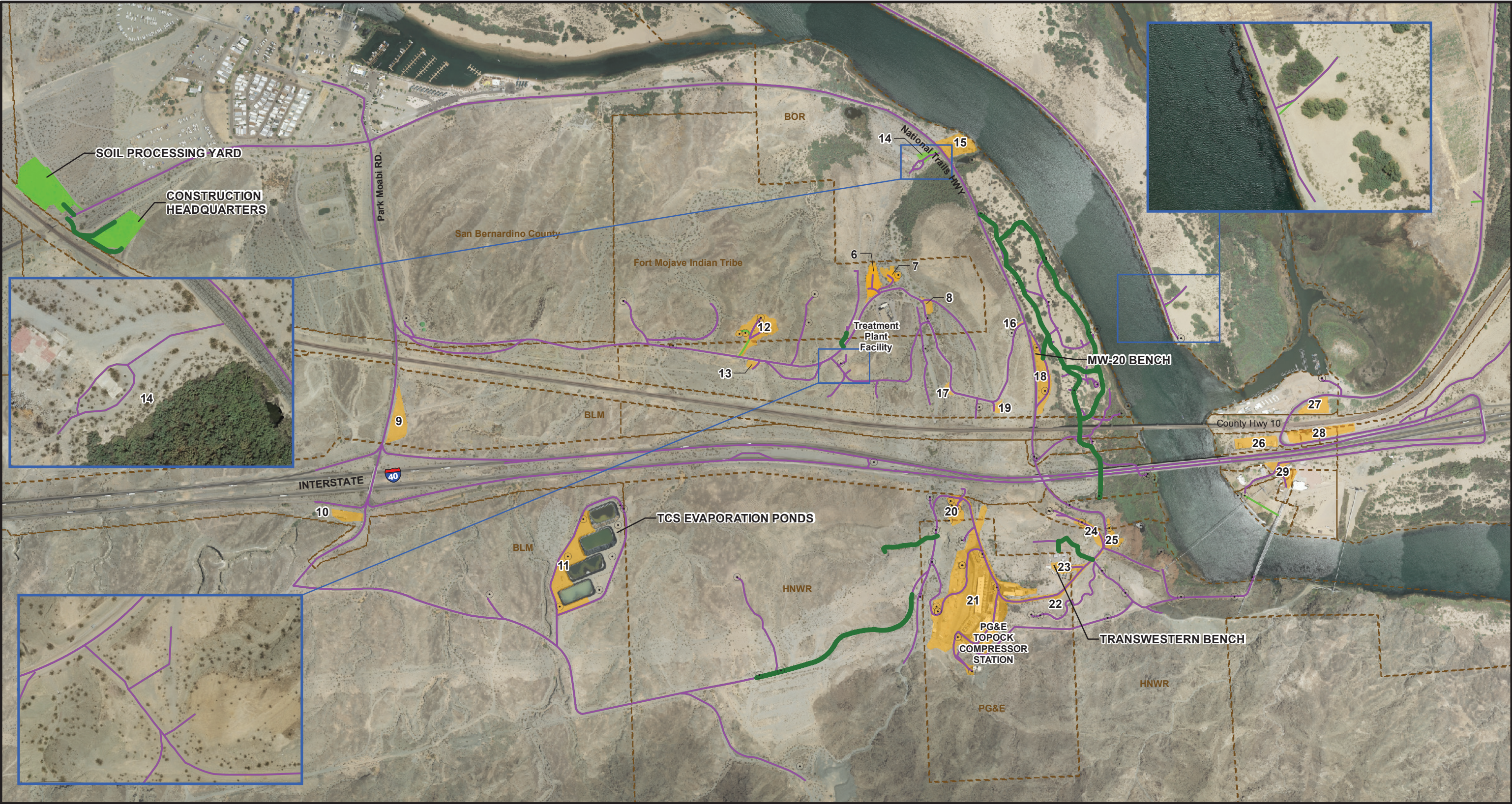
\* CH2M HILL, Inc. (CH2M). 2015a. *Basis of Design Report/Final (100%) Design Submittal for the Final Groundwater Remedy, PG&E Topock Compressor Station, Needles, California*. November 18.

**Table 2-3 Summary of Percent Completeness of Key Construction Activities**

*October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup  
PG&E Topock Compressor Station, Needles, California*

Activity	% Complete	Current Status of Construction Activities (as of October 31, 2019)
Project signage & Public Information Office	100%	Complete.
Staging Area 9 setup	100%	Complete.
Staging Area 23 setup	100%	Complete.
Staging Area 18 setup	100%	Complete.
Temporary construction offices at Soil Processing Yard	100%	Complete.
Soil Processing Yard setup for construction staging	100%	Complete.
National Trails Highway lane closure and traffic control installation	100%	Complete.
Temporary construction water line	100%	Complete.
TCS Ponds concrete containment pad	100%	Complete.
Construction Headquarters (CHQ) access road	100%	Complete.
Aggregate-based access road in floodplain	Not Available	Portion north of BNSF bridge is substantially complete.
CHQ and SPY security fence	100%	Complete
MW-L, N, E, W, O, R, M, U, 10D, B, H, and Y'	100%	Complete.
MW-F, MW-G, MW-D (rebuilt), MW-C, MW-X, MW-S	Not Available	Well construction complete. Surface completion will be scheduled when rig is available.
MW-B-33, MW-B-117, and MW-B-337	Not Available	Well construction complete.
MW-B-267 (damaged)	100%	Completed well abandonment. Installation of replacement well complete.
MW-C (shallow, sand entered well casing)	100%	Video log complete. A plug was installed below well screen. Subsequent development was successful.
MW-S (damaged)	100%	Over dill effort unsuccessful. Installation of replacement well complete.
Hydro-6 monitoring well, MW-70BR	Not Available	Well installation underway
RB-5, RB-4, RB-3, RB-2, IRZ-9, 13, 15, 16, 17, 21, 23, 25, 27, and 39 pilot borings	100%	Complete.
IRZ-37, IRZ-39, RB-2, RB-3	Not Available	Well construction complete. Well development in November.
RB-4, RB-5, IRZ-20, IRZ-21, 23, and 25 remedy wells	Not Available	Well construction complete. Well testing ongoing.
IRZ-17	Not Available	Well construction underway.
Pipeline C Segments C3, C4, C5	Not Available	Substantially complete. Tested electrical conduits in September.
Pipeline C Segments C7 and C14	Not Available	Currently underway.
Brine Tanks containment upgrade	100%	Complete.
Pipeline B and J	Not Available	Started on August 12, 2019. Currently underway.

## Figures

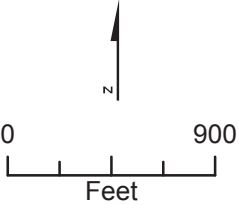


**LEGEND**

- Existing Access Route (will continue to be used for remedial activities)
- Existing Route (to be used as is for access to remedial activities)
- Roads to be improved or constructed for groundwater remedy
- Soil Processing (Area #5) and Construction Headquarter (Area #4) for Remediation Project
- Staging Areas for Remediation Project

**Notes:**

- Decontamination pads will be located in Area #4 (Construction Headquarters), Area #21 (Topock Compressor Station), and Area #23 (Transwestern Bench).
- Areas #15, 16, 17, 19, and 20 will not be used as staging areas. Areas #16, 17, and 19 may be part of the primary work zones for remedy infrastructure along the access road.
- Area #20 may be part of the primary work zone for installation of future provisional well IRL-6 (if determined to be needed in the future) and associated piping/concrete/vault.
- Public roadways outside of the EIR project area and the APE can also be used for remedy implementation.



**FIGURE 2.1-1  
CONSTRUCTION SITE PLAN  
AND ACCESS ROUTES**  
GROUNDWATER REMEDY CONSTRUCTION/  
PHASE 1  
PG&E TOPOCK COMPRESSOR STATION  
NEEDLES, CALIFORNIA



**LEGEND**

Property Boundaries

**Existing Wells:**

- Extraction Well
- Injection Well
- Monitoring Well
- Water Supply Well

**Planned Wells:**

- Extraction, National Trails Highway (NTH) In-situ Reactive Zone (IRZ)
- Extraction, Riverbank
- Injection, NTH IRZ
- Injection, Topock Compressor Station
- Remedy Monitoring Well
- Recirculation Well

**Pipeline Corridor for Remedy**

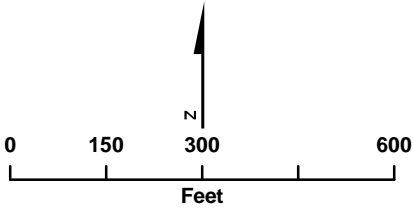
- Aboveground Pipe
- Underground Pipe/Conduit

**Remedy Facilities**

- Planned Transformer
- Future Provisional Transformer
- Proposed Remedy Structure

**Note:**

- Note that in compliance with EIR mitigation measure CUL-1a-9, as well as PA and CHPMP mitigation measures, the pipeline along the dirt road west of National Trails Hwy is located in an existing, previously disturbed, access road. In addition, the location of the road and pipeline was field verified and does not create any direct physical impact or effect on the Topock Maze, as it is manifested archaeologically, in compliance with EIR mitigation measure CUL-1a-10, PA, and CHPMP mitigation measures.
- All well and structure locations are approximate.



**FIGURE 2-2**  
**WELL AND PIPELINE LOCATIONS**  
GROUNDWATER REMEDY PHASE 1 CONSTRUCTION  
PG&E TOPOCK COMPRESSOR STATION  
NEEDLES, CALIFORNIA

## Attachment A

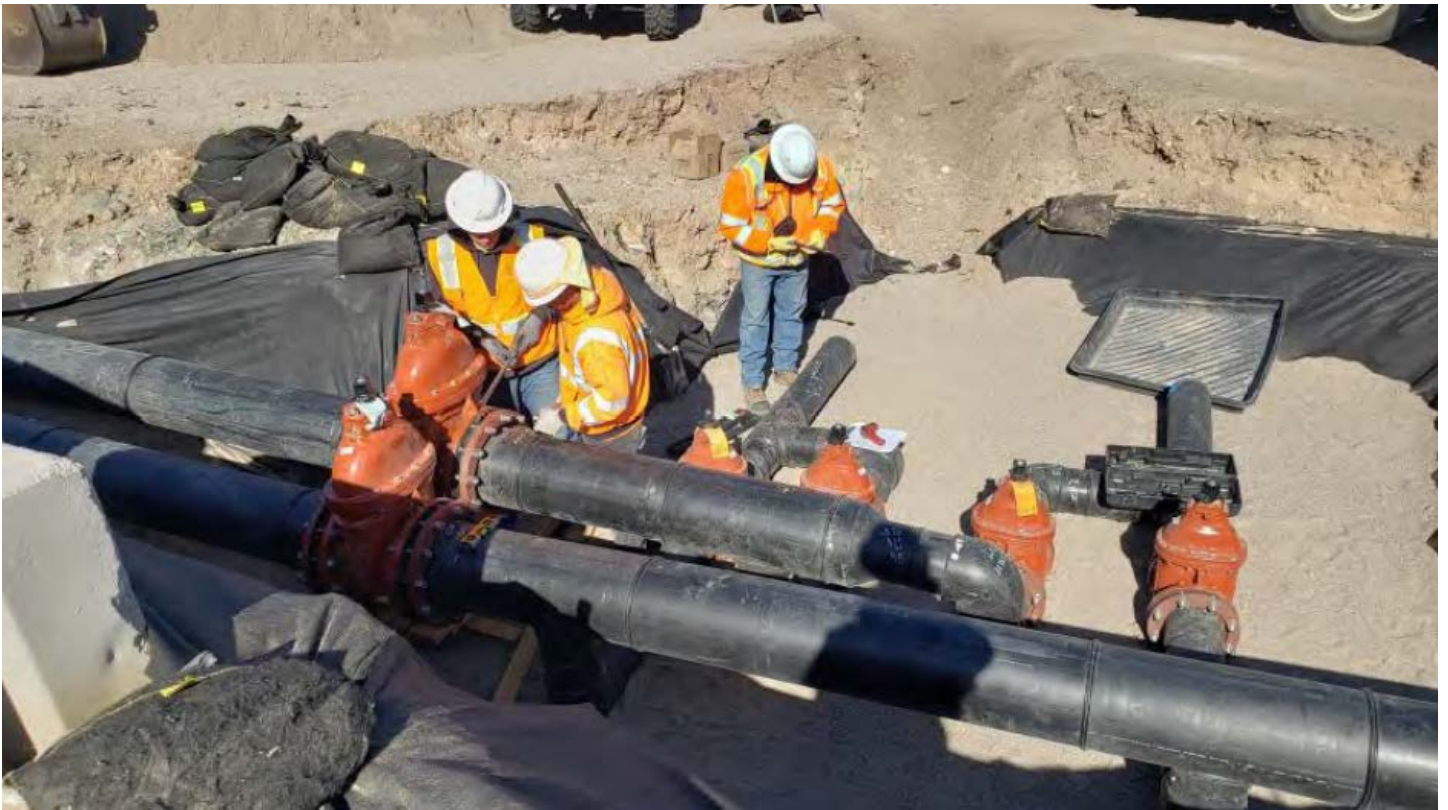
### Photographs



**Placement of bedding sand along C5/C7 trench**



**Security Fence Installation at the Soil Processing Yard (SPY)**



**Torquing of Bolts at Pipeline B and J Intersection Freshwater Manifold**



**Surface Completion at MW-H**



Site Preparation at Hydro-6 Drill Site



MW-S Drill Site

Attachment B  
Available Boring Logs, Well Construction  
Logs, Groundwater Sample Results from  
Well Drilling, and Well Testing Activities

**(Logs and Well Testing Plans/Results are Presented in  
Separate PDFs)**

**Table B-1. Groundwater Sampling Results**

October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup  
 PG&E Topock Compressor Station, Needles, California

Location	Sample ID	Sample Date	Depth Interval (ft bgs)	Total Dissolved Chromium (µg/L)	Hexavalent Chromium (µg/L)
MW-10D	MW-10D-041119	04/11/19	108 - 123	160	160
MW-10D	MW-10D-VAS-107-112	04/01/19	107 - 112	95	96
MW-10D	MW-10D-VAS-118-123	04/02/19	118 - 123	200	190
MW-11D	MW-11D-VAS-122-127	10/07/19	122 - 127	120	92
MW-11D	MW-11D-VAS-152-157	10/07/19	152 - 157	1.1	10
MW-11D	MW-11D-VAS-177-182	10/08/19	177 - 182	< 0.13 U	< 0.17 U
MW-11D	MW-11D-VAS-67-72	10/06/19	67 - 72	370	370
MW-11D	MW-11D-VAS-92-97	10/06/19	92 - 97	99	72
MW-B	MW-B-VAS-27-32	01/06/19	27 - 32	5.9 J	7.7J
MW-B	MW-B-VAS-47-52	01/09/19	47 - 52	< 0.13 U	< 0.17 U
MW-B	MW-B-VAS-67-72	01/09/19	67 - 72	< 0.13 U	< 0.17 U
MW-B	MW-B-VAS-102-107	01/10/19	102 - 107	< 0.13 U	< 0.17 U
MW-B	MW-B-VAS-142-147	01/15/19	142 - 147	< 0.13 U	< 0.17 U
MW-B	MW-B-VAS-182-187	02/13/19	182 - 187	< 0.13 U	< 0.17 U
MW-B	MW-B-VAS-207-212	02/14/19	207 - 212	< 0.13 U	< 0.17 U
MW-B	MW-B-VAS-247-252	02/17/19	247 - 252	11 J	< 0.83 U
MW-B	MW-B-VAS-264-269	02/18/19	264 - 269	< 0.13 U	< 0.33 U
MW-B	MW-B-VAS-287-292	02/20/19	287 - 292	< 0.13 U	< 0.17 U
MW-B	MW-B-VAS-317-322	02/21/19	317 - 322	< 0.13 U	< 0.17 U
MW-B	MW-B-VAS-339-344	02/27/19	339 - 344	< 0.13 U	< 0.33 U
MW-B	MW-B-VAS-352-357	02/28/19	352 - 357	0.603 J	< 0.33 U
MW-B	MW-B-117-033019	03/30/19	WD, 117	< 0.13 U	< 0.17 U
MW-B	MW-B-33-033119	03/31/19	WD, 33	3.7	2.3
MW-B	MW-B-337-062619-INTERIM	6/26/19	WD	0.255 J	< 0.17 U
MW-B	MW-B-337-090719	9/7/2019	WD	0.251 J	< 0.17 U
MW-C	MW-C-VAS-117-122	6/19/19	26-31	360	380
MW-C	MW-C-VAS-51-56	6/25/19	51-56	0.13 U	0.146 J
MW-C	DUP-01-062519	6/25/19	51-56	< 0.13 U	0.0931 J
MW-C	MW-C-VAS-66-71	6/26/19	66-71	< 0.13 U	< 0.033 U
MW-C	MW-C-VAS-81-86	6/27/19	81-86	< 0.13 U	< 0.17 U
MW-C	MW-C-VAS-117-122	6/28/19	117-122	< 0.13 U	< 0.17 U
MW-C	MW-C-VAS-147-152	6/29/19	147-152	< 0.13 U	< 0.17 U
MW-C	MW-C-VAS-165-170	6/30/19	165-170	< 0.13 U	< 0.17 U
MW-C	MW-C-VAS-176-181	7/1/19	176-181	380	410
MW-C	MW-C-VAS-186-191	7/1/19	186-191	< 0.13 U	< 0.17 U
MW-C	MW-C-VAS-200-205	7/2/19	200-205	< 0.13 U	< 0.17 U

**Table B-1. Groundwater Sampling Results**

October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup  
 PG&E Topock Compressor Station, Needles, California

Location	Sample ID	Sample Date	Depth Interval (ft bgs)	Total Dissolved Chromium (µg/L)	Hexavalent Chromium (µg/L)
MW-C	MW-C-VAS-216-221	7/3/19	216-221	0.448 J	< 0.17 U
MW-C	MW-C-VAS-26-31	6/19/2019	26 - 31	360	380
MW-C	MW-C-VAS-51-56	6/25/2019	51 - 56	< 0.13 U	0.146 J
MW-C	MW-C-VAS-66-71	6/26/2019	66 - 71	< 0.13 U	< 0.033 U
MW-C	MW-C-VAS-81-86	6/27/2019	81 - 86	< 0.13 U	< 0.17 U
MW-C	MW-C-156-081519	8/15/2019	WD	Data not yet available	< 0.17 U
MW-C	MW-C-181-082019	8/20/2019	WD	280	280
MW-C	MW-C-218-082219	8/22/2019	WD	39	40
MW-C	MW-C-39-090519	9/5/2019	WD	14	16
MW-D	MW-D-VAS-30-35	08/10/19	30-35	<0.13 U	<0.17 U
MW-D	MW-D-VAS-46-51	08/11/19	46-51	0.558 J	0.47
MW-D	MW-D-VAS-91-96	08/12/19	91-96	<0.13 U	<0.033 U
MW-D	MW-D-VAS-131-136	08/21/19	131-136	< 0.13 U	<0.66 U
MW-D	MW-D-VAS-141-146	08/22/19	141-146	< 0.13 U	<0.17 U
MW-D	MW-D-VAS-151-156	08/22/19	151 - 156	< 0.13 U	< 0.17 U
MW-D	MW-D-VAS-161-166	08/23/19	161 - 166	< 0.13 U	< 0.17 U
MW-D	MW-D-VAS-171-176	08/23/19	171 - 176	< 0.13 U	< 0.17 U
MW-D	MW-D-VAS-181-186	08/24/19	181 - 186	< 0.13 U	< 0.17 U
MW-D	MW-D-VAS-191-196	08/25/19	191 - 196	< 0.13 U	< 0.17 U
MW-D	MW-D-102-100219	10/02/19	WD	< 0.13 U	< 0.033 U
MW-D	MW-D-158-092419	09/24/19	WD	0.203 J	< 0.17 U
MW-D	MW-D-187-092519	09/25/19	WD	< 0.13 U	< 0.17 U
MW-E	MW-E-VAS-52-57	11/05/18	52 - 57	7800	7000
MW-E	MW-E-VAS-82-87	11/06/18	82 - 87	190	200
MW-E	MW-E-VAS-112-117	11/06/18	112 - 117	3000	3100
MW-E	MW-E-VAS-137-142	11/07/18	137 - 142	7900	7300
MW-E	MW-E-70-121418	12/14/18	WD, 70	-	3000
MW-E	MW-E-142-121418	12/14/18	WD, 142	4500	4200
MW-F	MW-F-VAS-52-57	01/06/19	52 - 57	2700	2500
MW-F	MW-F-VAS-82-87	01/07/19	82 - 87	120	110
MW-F	MW-F-VAS-97-102	01/07/19	97 - 102	1900	1800
MW-F	MW-F-VAS-112-117	01/08/19	112 - 117	790	740
MW-F	MW-F-104-022719	02/27/19	WD, 104	1800	1700
MW-F	MW-F-60-022819	02/28/19	WD, 60	2300	2200
MW-G	MW-G-VAS-52-57	02/13/19	52 - 57	790	680
MW-G	MW-G-VAS-67-72	02/14/19	67 - 72	1000	920
MW-G	MW-G-VAS-77-82	02/15/19	77 - 82	710	600

**Table B-1. Groundwater Sampling Results**

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PG&E Topock Compressor Station, Needles, California*

Location	Sample ID	Sample Date	Depth Interval (ft bgs)	Total Dissolved Chromium (µg/L)	Hexavalent Chromium (µg/L)
MW-G	MW-G-82-030219	03/02/19	WD, 82	1500	1500
MW-G	MW-G-57-030219	03/02/19	WD, 57	510	560
MW-H	MW-H-VAS-32-37	8/7/2019	32 - 37	<0.13 U	< 0.17 U
MW-H	MW-H-VAS-47-52	8/7/2019	47-52	<0.13 U	< 0.17 U
MW-H	MW-H-VAS-82-87	08/08/19	82-87	<0.13 U	<.033 U
MW-H	MW-H-VAS-112-117	08/09/19	112-117	8.1	<0.17 U
MW-H	MW-H-VAS-142-147	08/10/19	142-147	18 J	<0.17 U
MW-H	MW-H-VAS-152-157	08/10/19	152-157	< 0.13 U	<0.17 U
MW-H	MW-H-VAS-162-167	08/11/19	162-167	<0.13 U	<0.17 U
MW-H	MW-H-VAS-172-177	08/12/19	172-177	<0.13 U	<0.17 U
MW-H	MW-H-VAS-182-187	08/13/19	182-187	<0.13 U	<0.17 U
MW-H	MW-H-VAS-192-197	08/14/19	192-197	<0.13 U	<0.17 U
MW-H	MW-H-112-092019	09/20/19	WD	< 0.13 U	< 0.17 U
MW-H	MW-H-168-092119	09/21/19	WD	< 0.13 U	< 0.17 U
MW-H	MW-H-198-092219	09/22/19	WD	< 0.13 U	< 0.17 U
MW-H	MW-H-46-091919	09/19/19	WD	19	1.4
MW-L	MW-L-VAS-76-81	10/06/18	76 - 81	8.1	31
MW-L	MW-L-VAS-106-111	10/09/18	106 - 111	0.697 J	0.84
MW-L	MW-L-VAS-141-146	10/10/18	141 - 146	< 0.13 U	< 0.033 U
MW-L	MW-L-VAS-181-186	10/20/18	181 - 186	3.8	3.3
MW-L	MW-L-VAS-218-223	10/21/18	218 - 223	68	66
MW-L	MW-L-VAS-261-266	10/22/18	261 - 266	0.284 J	< 0.17 U
MW-L	MW-L-180-032819	03/28/19	WD, 180	< 0.13 U	< 0.17 U
MW-L	MW-L-245-030319	03/03/19	WD, 245	14	15
MW-L	MW-L-90-032919	03/29/19	WD, 90	19	18
MW-L	MW-L-225-032919	03/29/19	WD, 225	410	380
MW-M	MW-M-VAS-52-57	03/28/19	52 - 57	29	28
MW-M	MW-M-VAS-72-77	03/29/19	72 - 77	< 0.13 U	< 0.033 U
MW-M	MW-M-VAS-107-112	03/30/19	107 - 112	< 0.13 U	< 0.033 U
MW-M	MW-M-VAS-147-152	03/31/19	147 - 152	< 0.13 U	< 0.17 U
MW-M	MW-M-VAS-172-177	04/02/19	172 - 177	< 0.13 U	< 0.033 U
MW-M	MW-M-VAS-190-195	04/10/19	190 - 195	< 0.13 U	< 0.17 U
MW-M	MW-M-132-061519	6/16/19	WD	< 0.13 U	< 0.033 U
MW-M	MW-M-193-061419	6/14/19	WD	< 0.13 U	< 0.17 U
MW-M	MW-M-57-061719	6/17/19	WD	0.715 J	0.72
MW-M	MW-M-95-061619	6/16/19	WD	< 0.13 U	< 0.033 U
MW-N	MW-N-VAS-121-126	02/14/19	121 - 126	0.699 J	0.51

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 PG&E Topock Compressor Station, Needles, California

Location	Sample ID	Sample Date	Depth Interval (ft bgs)	Total Dissolved Chromium (µg/L)	Hexavalent Chromium (µg/L)
MW-N	MW-N-VAS-142-147	02/16/19	142 - 147	< 0.13 U	< 0.033 U
MW-N	MW-N-VAS-173-178	02/18/19	173 - 178	< 0.13 U	< 0.033 U
MW-N	MW-N-VAS-210-215	02/21/19	210 - 215	320	290
MW-N	MW-N-VAS-228-233	02/26/19	228 - 233	< 0.13 U	< 0.17 U
MW-N	MW-N-217-040219	04/02/19	WD, 217	110	110
MW-N	MW-N-237-040119	04/01/19	WD, 237	1600	1500
MW-N	MW-N-129-040319	04/03/19	WD, 129	45	46
MW-O	MW-O-VAS-101-106	05/10/19	101 - 106	< 0.13 U	< 0.033 U
MW-O	MW-O-VAS-106-111	05/11/19	106 - 111	< 0.13 U	< 0.17 U
MW-O	MW-O-VAS-12.5-17.5	05/08/19	12 - 18	< 0.13 U	0.163 J
MW-O	MW-O-VAS-136-141	05/11/19	136 - 141	< 0.13 U	< 0.17 U
MW-O	MW-O-VAS-51-56	05/09/19	51 - 56	< 0.13 U	< 0.033 U
MW-O	MW-O-VAS-66-71	05/09/19	66 - 71	< 0.13 U	0.178 J
MW-O	MW-O-140-071819	7/18/19	WD	< 0.13 U	< 0.17 U
MW-O	MW-O-30-071719	7/17/19	WD	< 0.13 U	< 0.033 U
MW-O	MW-O-66-071519	7/15/19	WD	< 0.13 U	< 0.033 U
MW-R	MW-R-VAS-92-97	05/13/19	92 - 97	42	45
MW-R	MW-R-VAS-117-122	05/14/19	117 - 122	4.6	5.8
MW-R	MW-R-VAS-151-156	05/15/19	151 - 156	<0.13 U	< 0.033 U
MW-R	MW-R-VAS-192-197	05/16/19	192 - 197	<0.13 U	< 0.033 U
MW-R	MW-R-VAS-227-232	05/17/19	227 - 232	<0.13 U	< 0.033 U
MW-R	MW-R-VAS-255-260	05/29/19	255 - 260	<0.13 U	< 0.17 U
MW-R	MW-R-VAS-269-274	05/30/19	269 - 274	<0.13 U	< 0.17 U
MW-R	MW-R-109-062819	6/28/19	WD	2.6	2.5
MW-R	MW-R-139-071319	7/13/19	WD	< 0.13 U	< 0.033 U
MW-R	MW-R-192-070219	7/2/19	WD	< 0.13 U	< 0.033 U
MW-R	MW-R-275-070919	7/9/19	WD	< 0.13 U	< 0.17 U
MW-S	MW-S-VAS-107-112	09/24/19	107 - 112	20	15
MW-S	MW-S-VAS-92-97	09/22/19	92 - 97	25	26
MW-W	MW-W-VAS-7-12	03/27/19	7 - 12	0.266 J	< 0.17 U
MW-W	MW-W-VAS-22-27	03/28/19	22 - 27	< 0.13 U	< 0.33 U
MW-W	MW-W-31-040419	04/04/19	WD, 31	< 0.13 U	< 0.17 U
MW-X	MW-X-VAS-12-17	06/25/19	12-17	1.2	< 0.033 U
MW-X	MW-X-VAS-32-37	06/26/19	32-37	< 0.13 U	< 0.033 U
MW-X	MW-X-VAS-71-76	6/27/19	71 - 76	< 0.13 U	< 0.033 U
MW-X	MW-X-VAS-107-112	6/27/19	107-112	< 0.13 U	< 0.033 U
MW-X	MW-X-VAS-112-117	6/28/19	112-117	< 0.13 U	< 0.033 U

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 PG&E Topock Compressor Station, Needles, California

Location	Sample ID	Sample Date	Depth Interval (ft bgs)	Total Dissolved Chromium (µg/L)	Hexavalent Chromium (µg/L)
MW-X	MW-X-VAS-152-157	6/29/19	152-157	< 0.13 U	< 0.17 U
MW-X	MW-X-VAS-182-187	6/29/19	182-187	< 0.13 U	< 0.17 U
MW-X	MW-X-VAS-207-212	6/30/19	207-212	< 0.13 U	< 0.17 U
MW-X	MW-X-VAS-245-250	7/1/19	245-250	< 0.13 U	< 0.033 U
MW-X	MW-X-VAS-292-297	7/2/19	292-297	< 0.13 U	< 0.17 U
MW-X	MW-X-VAS-337-342	7/11/19	337-342	0.564 J	< 0.17 U
MW-X	MW-X-VAS-382-387	7/13/19	382-387	0.582 J	< 0.17 U
MW-X	MW-X-VAS-412-417	7/15/19	412-417	38	< 0.17 U
MW-Y'	MW-Y-VAS-12-17	08/20/19	12-17	< 0.13 U	<0.033 U
MW-Y'	MW-Y-VAS-52-57	08/21/19	52-57	0.378 J	<0.033 U
MW-Y'	MW-Y-VAS-92-97	08/22/19	92 - 97	0.620 J	0.31
MW-Y'	MW-Y-VAS-98-103	08/23/19	98 - 103	0.521 J	< 0.033 U
MW-Y'	MW-Y-VAS-112-117	08/23/19	112 - 117	< 0.13 U	< 0.033 U
MW-U	MW-U-VAS-137-142	04/12/19	137 - 142	0.818 J	1.4
MW-U	MW-U-VAS-181-186	04/13/19	181 - 186	< 0.13 U	0.112 J
MW-U	MW-U-VAS-222-227	04/14/19	222 - 227	< 0.13 U	< 0.033 U
MW-U	MW-U-VAS-257-262	04/16/19	257 - 262	< 0.13 U	0.0896 J
MW-U	MW-U-VAS-287-292	04/17/19	287 - 292	< 0.13 U	< 0.033 U
MW-U	MW-U-VAS-317-322	04/24/19	317 - 322	< 0.13 U	< 0.17 U
MW-U	MW-U-183-050819	05/08/19	WD, 183	< 0.13 U	< 0.033 U
MW-U	MW-U-273-051019	05/10/19	WD, 273	< 0.13 U	< 0.033 U
IRZ-9	IRZ-9-VAS-27-32	12/03/18	27 -32	120	120
IRZ-9	IRZ-9-VAS-47-52	12/04/18	47 -52	< 0.13 U	< 0.033 U
IRZ-9	IRZ-9-VAS-62-67	12/04/18	62 -67	< 0.13 U	< 0.033 U
IRZ-9	IRZ-9-VAS-182-187	12/11/18	182 -187	< 0.13 U	< 0.17 U
IRZ-9	IRZ-9-VAS-207-212	12/13/18	207 -212	< 0.13 U	< 0.17 U
IRZ-9	IRZ-9-VAS-232-237	12/13/18	232 -237	0.811 J	< 0.17 U
IRZ-9	IRZ-9-VAS-264-269	12/15/18	264 -269	< 0.13 U	< 0.17 U
IRZ-9	IRZ-9-VAS-276-281	12/16/18	276 -281	< 0.13 U	< 0.17 U
IRZ-9	IRZ-9-VAS-292-297	12/18/18	292 -297	< 0.13 U	< 0.17 U
IRZ-13	IRZ-13-VAS-32-37	11/17/18	32 - 37	170	220
IRZ-13	IRZ-13-VAS-57-62	11/18/18	57 - 62	< 0.13 U	< 0.17 U
IRZ-13	IRZ-13-VAS-102-107	11/19/18	102 - 107	< 0.13 U	< 0.17 U
IRZ-13	IRZ-13-VAS-142-147	11/19/18	142 - 147	< 0.13 U	< 0.17 U
IRZ-13	IRZ-13-VAS-180-185	11/27/18	180 - 185	230	190
IRZ-13	IRZ-13-VAS-197-202	11/28/18	197 - 202	< 0.13	< 0.83
IRZ-13	IRZ-13-VAS-224-229	11/28/18	224 - 229	< 0.13	< 0.83

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 PG&E Topock Compressor Station, Needles, California

Location	Sample ID	Sample Date	Depth Interval (ft bgs)	Total Dissolved Chromium (µg/L)	Hexavalent Chromium (µg/L)
IRZ-13	IRZ-13-VAS-237-242	11/29/18	237 - 242	< 0.13 U	< 0.17 U
IRZ-15	IRZ-15-VAS-32-37	11/01/18	32 - 37	13	13
IRZ-15	IRZ-15-VAS-62-67	11/02/18	62 - 67	< 0.65 U	0.459 J
IRZ-15	IRZ-15-VAS-102-107	11/03/18	102 - 107	< 0.65 U	< 0.17 U
IRZ-15	IRZ-15-VAS-132-137	11/04/18	132 - 137	0.228 J	< 0.17 U
IRZ-15	IRZ-15-VAS-162-167	11/05/18	162 - 167	3400	3200
IRZ-15	IRZ-15-VAS-182-187	11/06/18	182 - 187	130	140
IRZ-15	IRZ-15-VAS-222-227	11/07/18	222 - 227	< 0.13 U	< 0.17 U
IRZ-16	IRZ-16-VAS-27-32	02/20/19	27 - 32	480	480
IRZ-16	IRZ-16-VAS-57-62	02/20/19	57 - 62	< 0.33 U	< 0.33 U
IRZ-16	IRZ-16-VAS-102-107	02/21/19	102 - 107	< 0.33 U	< 0.33 U
IRZ-16	IRZ-16-VAS-132-137	02/26/19	132 - 137	< 0.17 U	< 0.17 U
IRZ-16	IRZ-16-VAS-147-152	02/27/19	147 - 152	< 0.17 U	< 0.17 U
IRZ-16	IRZ-16-VAS-172-177	02/27/19	172 - 177	110	110
IRZ-16	IRZ-16-VAS-192-197	02/28/19	192 - 197	< 0.17 U	< 0.17 U
IRZ-17	IRZ-17-VAS-32-37	03/02/19	32 - 37	78	67
IRZ-17	IRZ-17-VAS-62-67	03/02/19	62 - 67	0.750 J	0.604 J
IRZ-17	IRZ-17-VAS-102-107	03/03/19	102 - 107	< 0.13 U	< 0.17 U
IRZ-17	IRZ-17-VAS-132-137	03/13/19	132 - 137	< 0.13 U	< 0.17 U
IRZ-17	IRZ-17-VAS-137-142	03/12/19	137 - 142	< 0.13 U	< 0.13 U
IRZ-17	IRZ-17-VAS-142-147	03/04/19	142 - 147	68	84
IRZ-17	IRZ-17-VAS-147-152	03/12/19	147 - 152	< 0.13 U	< 0.33 U
IRZ-17	IRZ-17-VAS-152-157	03/04/19	152 - 157	16	7.0
IRZ-17	IRZ-17-VAS-162-167	03/04/19	162 - 167	< 0.13 U	< 0.17 U
IRZ-17	IRZ-17-VAS-172-177	03/05/19	172 - 177	< 0.13 U	< 0.17 U
IRZ-19	IRZ-19-VAS-122-127	9/8/2019	122 - 127	< 0.13 U	< 0.17 U
IRZ-19	IRZ-19-131-136	9/9/2019	131-136	< 0.13 U	< 0.17 U
IRZ-19	IRZ-19-142-147	9/9/2019	142-147	< 0.13 U	< 0.17 U
IRZ-19	IRZ-19-VAS-152-157	9/10/2019	152 - 157	0.187 J	< 0.17 U
IRZ-19	IRZ-19-VAS-162-167	9/11/2019	162 - 167	< 0.13 U	< 0.17 U
IRZ-19	IRZ-19-VAS-177-182	9/12/2019	177 - 182	0.275 J	< 0.17 U
IRZ-19	IRZ-19-VAS-27-32	9/6/2019	27 - 32	< 0.13 U	< 0.033 U
IRZ-19	IRZ-19-VAS-37-42	9/6/2019	37 - 42	< 0.13 U	< 0.033 U
IRZ-19	IRZ-19-VAS-82-87	9/7/2019	82 - 87	< 0.13 U	< 0.033 U
IRZ-20	IRZ-17-VAS-197-202	03/06/19	197 - 202	< 0.13 U	< 0.17 U
IRZ-20	IRZ-17-VAS-217-222	03/06/19	217 - 222	< 0.13 U	< 0.17 U
IRZ-20	IRZ-20-VAS-112-117	10/22/18	112 - 117	< 0.13 U	< 0.17 U

**Table B-1. Groundwater Sampling Results**

October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup  
 PG&E Topock Compressor Station, Needles, California

Location	Sample ID	Sample Date	Depth Interval (ft bgs)	Total Dissolved Chromium (µg/L)	Hexavalent Chromium (µg/L)
IRZ-20	IRZ-20-VAS-131-136	10/23/18	131 - 136	< 0.13 U	< 0.17 U
IRZ-20	IRZ-20-VAS-173-178	10/24/18	173 - 178	< 0.13 U	< 0.83 U
IRZ-21	IRZ-21-VAS-52-57	12/15/18	52 - 57	100	97
IRZ-21	IRZ-21-VAS-77-82	12/16/18	77 - 82	1.3	1.1
IRZ-21	IRZ-21-VAS-112-117	12/16/18	112 - 117	< 0.13 U	< 0.17 U
IRZ-21	IRZ-21-VAS-132-137	12/17/18	132 - 137	< 0.13 U	< 0.17 U
IRZ-21	IRZ-21-VAS-147-152	12/18/18	147 - 152	4000	3600
IRZ-23	IRZ-23-VAS-67-72	12/01/18	67 - 72	86	85
IRZ-23	IRZ-23-VAS-92-97	12/01/18	92 - 97	0.453 J	< 0.033 U
IRZ-23	IRZ-23-VAS-122-127	12/02/18	122 - 127	2100	2000
IRZ-23	IRZ-23-VAS-139-144	12/02/18	139 - 144	3400	3000
IRZ-25	IRZ-25-VAS-52-57	12/05/18	52 - 57	4300	3500
IRZ-25	IRZ-25-VAS-67-72	12/05/18	67 - 72	750	620
IRZ-25	IRZ-25-VAS-92-97	12/06/18	92 - 97	140	130
IRZ-25	IRZ-25-VAS-112-117	12/11/18	112 - 117	< 0.13 U	< 0.17 U
IRZ-25	IRZ-25-VAS-147-152	12/11/18	147 - 152	3800	3600
IRZ-25	IRZ-25-VAS-162-167	12/13/18	162 - 167	3000	3000
IRZ-27	IRZ-27-VAS-52-57	03/15/19	52 - 57	4500	4400
IRZ-27	IRZ-27-VAS-72-77	03/17/19	72 - 77	0.338 J	< 0.033 U
IRZ-27	IRZ-27-VAS-102-107	03/18/19	102 - 107	< 0.13 U	< 0.17 U
IRZ-27	IRZ-27-VAS-132-137	03/20/19	132 - 137	1200	1300
IRZ-37	IRZ-37-VAS-52-57	10/06/19	52 - 57	1100	1000
IRZ-37	IRZ-37-VAS-57-62	10/07/19	57 - 62	1200	1100
IRZ-39	IRZ-39-VAS-27-32	03/30/19	27 - 32	31	29
RB-2	RB-2-VAS-102-107	7/1/19	102-107	< 0.13 U	< 0.033 U
RB-2	RB-2-VAS-142-147	7/9/19	142-147	0.270 J	< 0.17 U
RB-2	RB-2-VAS-172-177	7/12/19	172-177	0.233 J	< 0.17 U
RB-2	RB-2-VAS-202-207	7/14/19	202-207	0.218 J	< 0.17 U
RB-2	RB-2-VAS-237-242	7/15/19	237-242	0.233J	< 0.17 U
RB-2	RB-2-VAS-274-279	7/18/19	274-279	0.514 J	< 0.17 U
RB-2	RB-2-VAS-287-292	7/26/19	287-292	<0.13 U	< 0.17 U
RB-2	RB-2-VAS-36.5-41.5	6/29/19	36 - 42	< 0.13 U	< 0.033 U
RB-2	RB-2-VAS-72-77	6/30/19	72 - 77	< 0.13 U	< 0.033 U
RB-3	RB-3-VAS-15-20	04/26/19	15 - 20	< 0.13 U	< 0.033 U
RB-3	RB-3-VAS-50-55	04/27/19	50 - 55	< 0.13 U	0.100 J
RB-3	RB-3-VAS-80-85	04/27/19	80 - 85	< 0.13 U	0.132 J
RB-3	RB-3-VAS-120-125	04/28/19	120 - 125	< 0.13 U	< 0.17 U

**Table B-1. Groundwater Sampling Results**

October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup  
PG&E Topock Compressor Station, Needles, California

Location	Sample ID	Sample Date	Depth Interval (ft bgs)	Total Dissolved Chromium (µg/L)	Hexavalent Chromium (µg/L)
RB-3	RB-3-VAS-150-155	04/29/19	150 - 155	0.257 J	< 0.17 U
RB-3	RB-3-VAS-180-185	04/29/19	180 - 185	< 0.13 U	< 0.033 U
RB-3	RB-3-VAS-205-210	04/30/19	205 - 210	< 0.13 U	< 0.17 U
RB-4	RB-4-VAS-15-20	04/12/19	15 - 20	< 0.13 U	0.0556 J
RB-4	RB-4-VAS-41-46	04/12/19	41 - 46	< 0.13 U	< 0.033 U
RB-4	RB-4-VAS-81-86	04/12/19	81 - 86	< 0.13 U	< 0.033 U
RB-4	RB-4-VAS-121-126	04/13/19	121 - 126	< 0.13 U	< 0.033 U
RB-4	RB-4-VAS-136-141	04/13/19	136 - 141	< 0.13 U	< 0.17 U
RB-4	RB-4-VAS-155-160	04/17/19	155 - 160	< 0.13 U	< 0.17 U
RB-5	RB-5-VAS-12-17	04/04/19	12 - 17	0.235 J	0.125 J
RB-5	RB-5-VAS-42-47	04/09/19	42 - 47	< 0.13 U	< 0.033 U
RB-5	RB-5-VAS-82-87	04/09/19	82 - 87	0.769 J	0.127 J

**Notes:**

µg/L = micrograms per liter

ft bgs = feet below ground surface

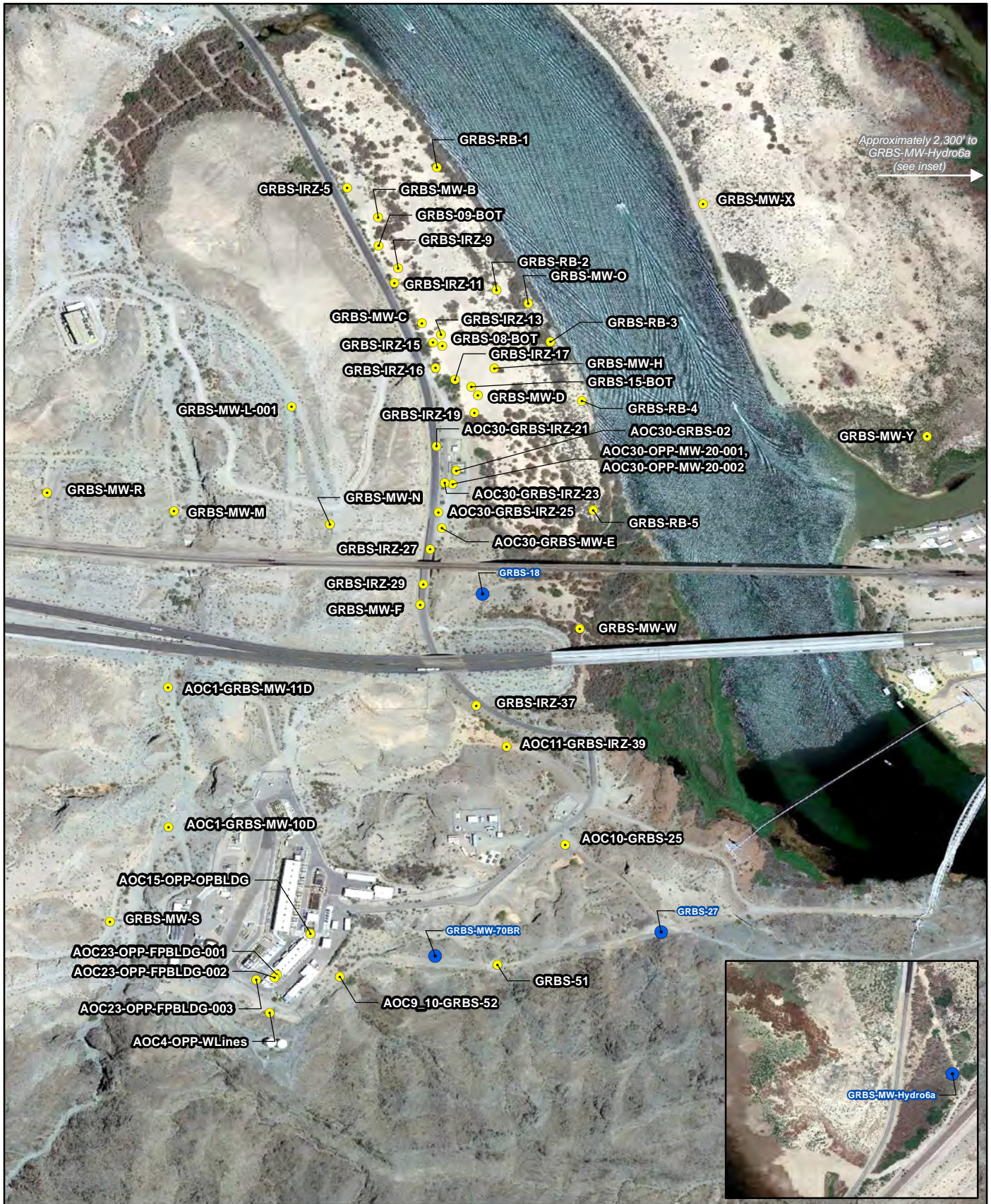
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only

U = The analyte was analyzed for but not detected at the analyte method detection limit indicated

VAS = vertical aquifer sampling

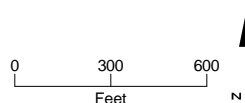
WD = sample from well development, depth noted is from bottom of screen

Attachment C  
Soil Sampling Locations and Available Soil  
Analytical Results  
**(Soil Data Presented in Excel File)**



# LEGEND

- Soil Sample Collected from this Location in October 2019
- Soil Sample Location



## Baseline and Opportunistic Soil Sampling Locations

Monthly Progress Report  
Groundwater Remedy Phase 1 Construction  
PG&E Topock Compressor Station, Needles, California

**JACOBS**

Attachment D  
Perimeter Air Sampling Analytical Results

## Attachment D. Perimeter Air Sampling Analytical Results

In conformance with the approved *Construction/Remedial Action Work Plan for the Final Groundwater Remedy, PG&E Topock Compressor Station, Needles, California* (CH2M, 2015), air monitoring has been conducted during construction to evaluate the ongoing effectiveness of the dust control program, to guide modifications to field activities and engineering control measures, if necessary, and to document that construction activities do not result in the migration of soil contaminants beyond the work area boundaries.

Perimeter air monitoring has been performed if construction activities have the potential to generate visible dust. The air monitoring program consists of both real-time fugitive dust monitoring and perimeter air sampling for select soil contaminants. Locations to be monitored and sampled are as follows:

- Real-time fugitive dust monitoring is performed at the perimeter of the work areas (outside of the exclusion zone) that have the potential to generate visible dust, including the Construction Headquarters (CHQ) and the Soil Processing Yard (SPY).
- Perimeter air sampling for hexavalent chromium is performed at the perimeter of the work areas (outside of the exclusion zone) that are inside Areas of Concern (AOCs) within the construction footprint where hexavalent chromium concentrations in soil have been historically reported. Air sampling for hexavalent chromium in the SPY will be performed when soil from AOCs with reported concentrations of hexavalent chromium is actively being processed. Air sampling may also be performed at other work areas at the site based on hexavalent chromium concentrations reported from new soil data or based on field observations during construction activities.
- Air sampling for asbestos will be limited to work areas where Asbestos Containing Material (ACM) has been observed in prior field investigations, including two areas in AOC 12 and one area in AOC 4. Perimeter air monitoring may also be performed at other work areas at the site if ACM is discovered during construction activities.

Project-specific levels of concern (LOC) and action levels were developed as an indicator to determine whether additional dust control measures, as presented in the project's Dust Control Plan required by the Mojave Desert Air Quality Management District (MDAQMD), are necessary.

- The LOCs, which represent conservative concentrations of compounds that receptors outside the work area could be safely exposed to during construction, have been evaluated for all compounds that have been detected in soil samples collected at the site in the prior investigations. The LOCs were developed using standard U.S. Environmental Protection Agency (USEPA) and California Environmental Protection Agency risk assessment methodology, toxicology data, and exposure assumptions (USEPA, 2009, 2017; California Department of Toxic Substances Control [DTSC], 2018). Both cancer and noncancer health effects were considered. For each type of health effect, the LOC was back-calculated from an established target or from acceptable cancer risk or noncancer hazard where USEPA or DTSC toxicity values are available. The LOCs for cancer effects are based on a target excess cancer risk of one in a million ( $1 \times 10^{-6}$ ). The LOCs for noncancer effects are based on a target hazard quotient of 1. The LOCs were developed using these assumptions:
  - Receptors are present outside the perimeter of the work areas
  - Exposure via inhalation is 10 hours per day for a 10 days on /4 days off schedule
  - Duration of Phase 1 of the final groundwater remedy construction is 20 months
- The action level for fugitive dust monitoring is 100 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) for a net (downwind minus upwind) dust concentration. This action level is based on MDAQMD Rule 403, Part C. A 10-hour time-weighted average of readings collected throughout the work day will be used to document compliance with MDAQMD Rule 403.
- For analytes detected in soil, the following equation was used to calculate maximum allowable airborne particulate concentrations for receptor exposure outside the work area (based on the approach presented by Marlowe (1999):

$$AL = \frac{LOC \times 1,000,000 \text{ mg/kg}}{CS}$$

Where:

AL = action level for airborne particulates ( $\mu\text{g}/\text{m}^3$ )

LOC = Project specific risk-based level of concern ( $\mu\text{g}/\text{m}^3$ )

CS = maximum detected concentration of compound in site soil (milligrams per kilogram [mg/kg])

Action levels were determined as follows:

- Soil data from prior investigations were gathered for the entire site.
- Sample locations within the maximum construction footprint were evaluated. Some sample locations were removed from evaluation as they were within the compressor station in locations where no construction activities will actually occur.
- The maximum reported soil concentration for each compound was determined and then used to calculate an airborne particulate action level.
- All compounds had allowable airborne particulate action levels greater than  $100 \mu\text{g}/\text{m}^3$  except for hexavalent chromium at a few locations.
- Lead does not have USEPA or DTSC toxicity values; however, an action level was calculated using the DTSC (2011) LeadSpread 8 model. This is based on the maximum reported soil concentration for lead of 1,400 mg/kg from samples collected within the construction footprint and a blood level of concern through inhalation of 1 microgram per deciliter. The resulting action level for lead is  $548 \mu\text{g}/\text{m}^3$ .
- Therefore, keeping fugitive dust below the action level  $100 \mu\text{g}/\text{m}^3$  will result in airborne particulate concentrations of contaminants (other than hexavalent chromium) remaining below their respective LOCs.
- Fugitive dust monitoring will be used to evaluate airborne contaminants in dust for all compounds except for hexavalent chromium.

In October 2019, 270 real time dust observation/monitoring events were conducted at the perimeter of the work areas (outside of the exclusion zone). There were temporary exceedances of the action level for fugitive dust monitoring ( $100 \mu\text{g}/\text{m}^3$ ) during site preparation activities for MW-70BR and Hydro-6 well. Construction water was used to control fugitive dust. The technician also noted, in several occasions, that wind gusts picked up sands and dirt within the work areas.

Five perimeter air sampling events were conducted in October 2019 (October 15, 17, 18, 29, and 30) during site preparation and drilling activities at MW-70BR in AOC 10 (East Ravine). Table 1 presents available analytical results from air sampling events. The available October 2019 results are below the LOC for hexavalent chromium which is  $0.00094 \mu\text{g}/\text{m}^3$ .

#### References Cited:

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<https://www.dtsc.ca.gov/AssessingRisk/LeadSpread8.cfm>.

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Marlowe, C. 1999. *Safety Now! Controlling Chemical Exposures at Hazardous Waste Sites with Real-Time Measurements*. Fairfax, Va.: American Industrial Hygiene Association Press.

U.S. Environmental Protection Agency (USEPA). 2009. *Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part F, Supplemental Guidance for Inhalation Risk Assessment)*. Final. OSWER 9285.7-82. January.

U.S. Environmental Protection Agency (USEPA). 2017. Regional Screening Levels (RSLs)—Generic Tables. November.

**Table 1. Perimeter Air Sampling Results**

October 2019 Monthly Progress Report for the Final Groundwater Remedy Construction and Startup  
PG&E Topock Compressor Station, Needles, California

Location ID	Location	Date	Sample Type	Hexavalent Chromium (ug/m <sup>3</sup> )
AOC10-D1	AOC10 Downwind 1	10/18/2019	N	ND (0.0000347)
AOC10-D2	AOC10 Downwind 2	10/18/2019	N	ND (0.0000375)
AOC10-U1	AOC10 Upwind	10/18/2019	N	ND (0.0000386)
AOC10-D1	AOC10 Downwind 1	10/17/2019	N	0.0000321 J
AOC10-D2	AOC10 Downwind 2	10/17/2019	N	ND (0.0000321)
AOC10-U1	AOC10 Upwind	10/17/2019	N	ND (0.0000322)
AOC10-D1	AOC10 Downwind 1	10/15/2019	N	ND (0.0000324)
AOC10-D2	AOC10 Downwind 2	10/15/2019	N	ND (0.0000331)
AOC10-U1	AOC10 Upwind	10/15/2019	N	ND (0.0000316)
PIPE B-D1	PIPE B Downwind 1	8/13/2019	N	ND (0.0000276)
PIPE B-D2	PIPE B Downwind 2	8/13/2019	N	ND (0.0000276)
PIPE B-U1	PIPE B Upwind	8/13/2019	N	ND (0.0000276)
PIPE B-D1	PIPE B Downwind 1	8/12/2019	N	ND (0.0000278)
PIPE B-D2	PIPE B Downwind 2	8/12/2019	N	0.000035 J
PIPE B-U1	PIPE B Upwind	8/12/2019	N	ND (0.0000279)
AOC30-D1	AOC30 Downwind 1	6/18/2019	N	0.0000407 J
AOC30-D2	AOC30 Downwind 2	6/18/2019	N	ND (0.0000313)
AOC30-U1	AOC30 Upwind	6/18/2019	N	ND (0.000031)
AOC30-D1	AOC30 Downwind 1	6/17/2019	N	ND (0.0000633)
AOC30-D2	AOC30 Downwind 2	6/17/2019	N	ND (0.0000636)
AOC30-U1	AOC30 Upwind	6/17/2019	N	ND (0.0000589)
AOC4-D1	AOC4 Downwind 1	5/16/2019	N	0.0000423 J
AOC4-D2	AOC4 Downwind 2	5/16/2019	N	ND (0.0000385)
AOC4-U	AOC4 Upwind	5/16/2019	N	ND (0.0000378)
AOC11-D1	AOC11 Downwind 1	5/15/2019	N	ND (0.0000392)
AOC11-D2	AOC11 Downwind 2	5/15/2019	N	0.0001262 J
AOC11-U	AOC11 Upwind	5/15/2019	N	ND (0.0000386)
AOC4-D1	AOC4 Downwind 1	5/14/2019	N	ND (0.000148)
AOC4-D2	AOC4 Downwind 2	5/14/2019	N	ND (0.000155)
AOC4-U	AOC4 Upwind	5/14/2019	N	ND (0.000148)
AOC30-IRZ-23-D1	AOC30-IRZ-23 Downwind 1	2/20/2019	N	ND (0.0000859)
AOC30-IRZ-23-D2	AOC30-IRZ-23 Downwind 2	2/20/2019	N	ND (0.0000862)
AOC30-IRZ-23-U1	AOC30-IRZ-23 Upwind	2/20/2019	N	0.000104 J

AOC13-D1	AOC13 Downwind 1	10/09/18	N	0.000732 J
AOC13-D2	AOC13 Downwind 2	10/09/18	N	0.000709 J
AOC13-U	AOC13 Upwind	10/09/18	N	ND (0.000172)

Notes:

ug/m<sup>3</sup>      micrograms per cubic meter  
J              concentration or reporting limit estimated by laboratory or data validation  
N              primary sample  
ND            not detected at the listed reporting limit

Attachment E  
Noise Monitoring Results  
(SEIR NOISE-2 Requirement)

## Attachment E. Noise Monitoring Results

In conformance with the SEIR Mitigation Measure NOISE-2, noise monitoring has been conducted with ANSI S1.4 Type 1, precision sound level meters when construction activities are within the specified distance (e.g., 1,850 feet from sensitive receptors in California) at approved monitoring locations previously determined in coordination with the Tribes and land owners/managers (refer to Figures 1, 2 and 3). The goal of the noise monitoring is to identify if noise levels from project construction activities exceed applicable standards of the San Bernardino and Mohave County codes. Exceedance of standards would require coordination with the Tribes and land owners/managers to evaluate the potential constraints and locations for temporary engineered acoustical barriers. Consistent with the request of the Tribes, monitoring equipment is not left at the approved monitoring locations, rather it is mounted on a tripod for attended representative measurements and removed when the monitoring event is complete.

When a new construction activity is conducted or a previously monitored construction activity is conducted closer to a noise-sensitive area, monitoring is conducted at more frequent intervals to evaluate the potential need for an acoustical barrier. As the activities continue in the same location and multiple attended measurements indicate that the applicable standard has not been exceeded by the construction activity, periodic attending monitoring events are conducted to confirm continued compliance.

The attended monitoring events document the A-weighted  $L_{eq}$  sound level at periodic intervals (e.g., 5, 10, 15, 20, 30, 40, 50 and 60 minutes). The trend of the data at these intervals is evaluated in the field to assess the stability in the sound level to determine the duration of the monitoring event. When this interval data is relatively stable or clearly below the standard, the attended monitoring event will typically be 15 to 30 minutes in duration. As the applicable standards are in terms of the 24-hour average  $L_{dn}$  which is based on the  $L_{eq}$  metric, the measured  $L_{eq}$  is compared to the applicable  $L_{dn}$  standard for mobile noise sources (i.e., 60 A-weighted decibels [dBA] for Park Moabi, 65 dBA at all other locations). This results in a reasonable and conservative assessment given construction activities are not emitting noise continuously over a 24-hour period, nor are they occurring during the nighttime hours (10 p.m. to 7 a.m.).

In October 2019, the following monitoring events were conducted:

- Twenty-four (24) events at a location west of the mobile home park at Moabi Regional Park. Construction activities closest to this monitoring location include activities at the SPY and CHQ, as well as construction traffic on NTH. The sound level typically varied between 35 and 56 dBA, with an average and median of 44 dBA.
- Twenty-four (24) events at a location in the Upland just off the IM-3 access road, and near the top of the hill closest to the NTH and MW-20 Bench. Construction activities closest to this monitoring location include activities at MW-20 Bench, and construction traffic on the access road. The sound levels varied between 45 and 65 dBA, with an average and median of about 50 and 49 dBA, respectively. The technician noted that the maximum sound level of 65 dBA was associated with noise generated from equipment backing up from the MW-20 Bench.
- Twenty-four (24) events at the old restaurant location west of NTH. Construction activities closest to this monitoring location include construction traffic on NTH and in the northern end of the floodplain. The sound level varied between 41 and 57 dBA, with an average and median of 49-50 dBA.
- Six (6) events at a location along the edge of the Colorado River within the mobile home park at Topock Marina. Construction activities closest to this monitoring location are associated with work at MW-X and MW-Y'. The sound level typically varied between 52 and 62 dBA, with an average and median of 58 dBA. Sound levels spiked when there are boat traffic, train traffic, wildlife activities, and wind gust around the mobile homes.
- Thirteen (13) events on the MW-24 bench below and east of the Compressor Station. Construction activities closest to this monitoring location are associated with MW-S and MW-11D drilling. The sound level typically varied between 52 and 58 dBA, with an average and median of 55 dBA. The technician noted that most of the sound was from I-40, and that drilling-related noise was not audible.

Sound monitoring will continue as work progresses and moves into new areas to identify when an acoustical barrier needs to be considered.

Attachment F  
Discharge Monitoring Record in  
compliance with Monitoring and Reporting  
Program for Order No. 2003-0003-DWQ  
(Table 2)



Pivox Corporation

**Project Number:** ARC-18-T46

Week of 10/7/19 - Pipeline C5 STA 17+80 to C7 STA 20+20

\* By signing this record form, I acknowledge that all ground discharge has been observed and monitored for the following compliance requirements:

- a.No ponding of discharge water
- b.No attracting wildlife
- c.No channelizing of discharge water and runoff outside of work area
- d.No water discharged to washes or jurisdictional waters

## Attachment G Six-Week Look-Ahead Schedule

PG&E Topock Final Groundwater Remedy	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Primary Planned Activities	11/3/2019	11/4/2019	11/5/2019	11/6/2019	11/7/2019	11/8/2019	11/9/2019
Start Time (PST)	7:00 AM	7:00 AM	7:00 AM	7:00 AM	7:00 AM	No Work	No Work
IRZ Access Road Installation F5		Access road installation over C14 pipeline	Access road installation over C14 pipeline	Access road installation over C14 pipeline	Access road installation over C14 pipeline		
Pipeline C Installation E5, F5	--	Pipeline installation @ C14	Pipeline installation @ C14	Pipeline installation @ C14	Pipeline installation @ C14		
TCS Approach Pipeline Installation F5, G5, G6	--	Pipeline installation @ B and J	Pipeline installation @ B and J	Pipeline installation @ B and J	Pipeline installation @ B and J		
Well Installation	MW-70BR (G5), IRZ-17 (E5), HYDRO-6 (F7)	MW-70BR (G5), IRZ-17 (E5), HYDRO-6 (F7)	MW-70BR (G5), IRZ-17 (E5), HYDRO-6 (F7)	MW-70BR (G5), IRZ-17 (E5), HYDRO-6 (F7)	MW-70BR (G5), IRZ-17 (E5), HYDRO-6 (F7)		
Well Development	MW-S (G5), IRZ-39 (F5)	RB-3 (E5)	RB-3 (E5)	RB-3 (E5)	RB-3 (E5)		
Well Testing	--	IRZ-39 (F5)	IRZ-39 (F5)	IRZ-39 (F5)	IRZ-39 (F5)		
Primary Planned Activities	11/10/2019	11/11/2019	11/12/2019	11/13/2019	11/14/2019	11/15/2019	11/16/2019
Start Time (PST)	No Work	No Work	7:00 AM	7:00 AM	7:00 AM	7:00 AM	7:00 AM
IRZ Access Road Installation F5			Access road installation over C14 pipeline	Access road installation over C14 pipeline	Access road installation over C14 pipeline	Access road installation over C14 pipeline	--
Pipeline C Installation E5, F5			Pipeline installation @ C14 & C8	Pipeline installation @ C14 & C8	Pipeline installation @ C14 & C8	Pipeline installation @ C14 & C8	--
TCS Approach Pipeline Installation F5, G5, G6			Pipeline installation @ B and J	Pipeline installation @ B and J	Pipeline installation @ B and J	Pipeline installation @ B and J	
Well Installation			IRZ-17 (E5), HYDRO-6 (F7)	IRZ-17 (E5), HYDRO-6 (F7)	IRZ-17 (E5), HYDRO-6 (F7)	IRZ-17 (E5), HYDRO-6 (F7)	IRZ-17 (E5), HYDRO-6 (F7)
Well Development			RB-3 (E5), MW-X (E6)	RB-3 (E5), MW-X (E6)	RB-3 (E5), MW-X (E6)	RB-3 (E5), MW-X (E6)	RB-3 (E5), MW-X (E6)
Well Testing			--	--	--	--	--
Primary Planned Activities	11/17/2019	11/18/2019	11/19/2019	11/20/2019	11/21/2019	11/22/2019	11/23/2019
Start Time (PST)	7:00 AM	7:00 AM	6:00:70 AM	7:00 AM	7:00 AM	7:00 AM	7:00 AM
CHQ Installation D1		Tentative: CHQ Electrical Install	Tentative: CHQ Electrical Install	Tentative: CHQ Electrical Install	Tentative: CHQ Electrical Install	--	--
Pipeline C Installation E5, F5	--	Pipeline installation C8	Pipeline installation C8	Pipeline installation C8	Pipeline installation C8	--	--
TCS Approach Pipeline Installation F5, G5, G6	--	Pipeline installation @ B and J	Pipeline installation @ B and J	Pipeline installation @ B and J	Pipeline installation @ B and J	--	--
Well Installation	IRZ-17 (E5), HYDRO-6 (F7)	IRZ-16 (E5), HYDRO-6 (F7)	IRZ-16 (E5), HYDRO-6 (F7)	MW-70BR (G5), IRZ-16 (E5)	MW-70BR (G5), IRZ-16 (E5)	MW-70BR (G5), IRZ-16 (E5)	MW-70BR (G5), IRZ-16 (E5)
Well Development	RB-3 (E5), MW-X (E6)	RB-3 (E5), MW-X (E6)	RB-3 (E5), MW-X (E6)	RB-3 (E5)	RB-3 (E5)	--	--
Well Testing		--	--	--	--	RB-3 (E5)	RB-3 (E5)
Primary Planned Activities	11/24/2019	11/25/2019	11/26/2019	11/27/2019	11/28/2019	11/29/2019	11/30/2019
Start Time (PST)	No Work	7:00 AM	7:00 AM	7:00 AM	No Work - Thanksgiving Holiday	No Work - Thanksgiving Holiday	No Work
CHQ Installation		Tentative: CHQ Electrical Install	Tentative: CHQ Electrical Install	Tentative: CHQ Electrical Install			
Pipeline C Installation E5, F5		Pipeline installation @ C8	Pipeline installation @ C8	Pipeline installation @ C8			
TCS Approach Pipeline Installation F5, G5, G6		Pipeline installation @ B and J	Pipeline installation @ B and J	Pipeline installation @ B and J			
Well Installation		--	--	--			
Well Development		--	--	--			
Well Testing		--	--	--			
Primary Planned Activities	12/1/2019	12/2/2019	12/3/2019	12/4/2019	12/5/2019	12/6/2019	12/7/2019
Start Time (PST)	No Work	7:00 AM	7:00 AM	7:00 AM	7:00 AM	7:00 AM	7:00 AM
Pipeline C Installation E5, F5		Pipeline installation @ C8	Pipeline installation @ C8	Pipeline installation @ C8	Pipeline installation @ C8	--	--
TCS Approach Pipeline Installation F5, G5, G6		Pipeline installation @ B and J	Pipeline installation @ B and J	Pipeline installation @ B and J	Pipeline installation @ B and J	--	--
MW-20 Bench Facility Construction E5, F5		Mobilization	Mobilization	Mobilization	Mobilization	--	--
Well Installation		MW-70BR (G5), IRZ-16 (E5)	MW-70BR (G5), IRZ-16 (E5)	MW-70BR (G5), IRZ-16 (E5)	MW-70BR (G5), IRZ-16 (E5)	MW-70BR (G5), IRZ-16 (E5), MW-Z site prep (D5)	IRZ-16 (E5), MW-Z (D5)
Well Development		--	--	--	RB-2 (E5)	RB-2 (E5)	RB-2 (E5)
Well Testing		RB-3 (E5)	RB-3 (E5)	RB-3 (E5)	--	--	--
Primary Planned Activities	12/8/2019	12/9/2019	12/10/2019	12/11/2019	12/12/2019	12/13/2019	12/14/2019
Start Time (PST)	7:00 AM	7:00 AM	7:00 AM	7:00 AM	7:00 AM	No Work	No Work
Pipeline C Installation E5, F5	--	Pipeline installation @ C8	Pipeline installation @ C8	Pipeline installation @ C8	Pipeline installation @ C8		
TCS Approach Pipeline Installation F5, G5, G6	--	Pipeline installation @ B and J	Pipeline installation @ B and J	Pipeline installation @ B and J	Pipeline installation @ B and J		
MW-20 Bench Facility Construction E5, F5		Mobilization/Site Prep	Mobilization/Site Prep	Mobilization/Site Prep	Mobilization/Site Prep		
TCS Pipeline Installation G5	--	Tentative: Pipeline installation @ M	Tentative: Pipeline installation @ M	Tentative: Pipeline installation @ M	Tentative: Pipeline installation @ M		
Well Installation	IRZ-16 (E5), MW-Z (D5)	IRZ-16 (E5), MW-Z (D5)	IRZ-16 (E5), MW-Z (D5)	IRZ-15 (E5), MW-Z (D5)	--		
Well Development	RB-2 (E5)	RB-2 (E5)	RB-2 (E5)	--	--		
Well Testing	--	--	--	RB-2 (E5)	--		


The timing of field activities are estimated and may change day-to-day based on site conditions, field progress, or other factors.  
When planning to visit the site to observe a specific activity or area, please contact Curt Russell (760-791-5884) for the latest schedule information.  
"G5" - Intrusive work location as described on the project grid map. See Project Grid Map tab for location of grid positions provided on the lookahead





Attachment H  
Available Groundwater Monitoring Data  
(DTSC Condition of Approval xi)


## **Attachment H. Available Groundwater Monitoring Data**


Pursuant to Condition of Approval # xi in DTSC's approval letter dated August 24, 2018 (DTSC, 2018a), PG&E is required to report data from samples collected as part of the sitewide groundwater monitoring program within 60 days of sample collection. In compliance with this requirement, PG&E initially submitted validated data to DTSC via monthly emails. For ease of recordkeeping and to minimize the number of ad-hoc compliance reports/emails, PG&E has since included validated data in each monthly progress report starting with the November 2018 report.


<div><div></div><div>Design &amp; Consultancy for natural and built assets</div></div> <div>GMP 2019-09 Sampling</div> <div>Lab</div>							ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET
Description Method Units							Alkalinity, total as CaCO3 SM 2320 B mg/L	Arsenic, dissolved SW 6020 ug/L	Bromide EPA 300.0 mg/L	Chloride EPA 300.0 mg/L	Chromium, Hexavalent EPA 218.6 ug/L	Chromium, total dissolved SW 6020 ug/L	Manganese, dissolved SW 6020 ug/L	Molybdenum, dissolved SW 6020 ug/L	Nitrate/Nitrite as Nitrogen SM 4500-NO3 F mg/L	Selenium, dissolved SW 6020 ug/L	Specific conductance EPA 120.1 uS/cm	Sulfate EPA 300.0 mg/L	ASSET Total dissolved solids SM 2540 C mg/L					
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled																		
MW-34-100	MW-34-100-Q319	N	LF		GW	10/1/2019		2.0			ND (0.2)	ND (1.0)	64	60	ND (0.05)	ND (0.5)	10,000							
MW-38S	MW-38S-Q319	N	LF		GW	9/25/2019		5.5			4.8	4.7	52	23	4.4	4.7	1,700							
MW-44-115	MW-44-115-Q319	N	LF		GW	10/1/2019		6.4			6.2	6.3	ND (0.5)	89	ND (0.05)	ND (0.5)	11,000							
MW-46-175	MW-46-175-Q319	N	LF		GW	10/1/2019					6.0	6.1		190	1.1	ND (0.5)	17,000							
MW-58BR	MW-58BR-Q319	N	LF		GW	8/19/2019		1.9			90	88 J	230	22	1.5	2.7	7,500							
MW-58BR	MW-901-Q319	FD		MW-58BR-Q319	GW	8/19/2019		1.9			90	89 J	220	23	1.4	2.6	7,600							
MW-62-065	MW-62-065-Q319	N	LF		GW	10/1/2019		1.8			490	530	ND (0.5)	14	4.7	4.2	6,200							
MW-62-110	MW-62-110-Q319	N	G		GW	9/25/2019		3.6			ND (1.0)	ND (1.0)	64	45	0.097	ND (0.5)	12,000							
MW-63-065	MW-63-065-Q319	N	LF		GW	9/26/2019		1.5			1.2	1.0	ND (0.5)	16	1.2	0.91	6,400							
MW-63-065	MW-903-Q319	FD		MW-63-065-Q319	GW	9/26/2019		1.5			1.2	1.1	ND (0.5)	15	1.2	0.89	6,500							
MW-64BR	MW-64BR-Q319	N	LF		GW	8/22/2019		3.6			ND (1.0)	ND (1.0)	840	62	ND (0.05)	ND (0.5)	13,000							
MW-65-160	MW-65-160-Q319	N	LF		GW	9/26/2019		0.61			150	160	7.5	65	14	9.8	3,900							
MW-65-225	MW-65-225-Q319	N	LF		GW	9/26/2019		2.4			330	340	ND (0.5)	34	5.2	4.1	13,000							
MW-65-225	MW-902-Q319	FD		MW-65-225-Q319	GW	9/26/2019		2.3			330	320	ND (0.5)	33	5.7	4.6	13,000							
MW-68-180	MW-68-180-Q319	N	LF		GW	9/26/2019		3.1			9,700	11,000	ND (0.5)	33	11	10	3,500							
MW-69-195	MW-69-195-Q319	N	LF		GW	9/26/2019		2.5			78	77	ND (0.5)	65	9.3	8.0	2,600							
MW-72-080	MW-72-080-Q319	N	LF		GW	8/22/2019		13			93	91	ND (0.5)	77	0.71	1.4	15,000							
MW-72BR-200	MW-72BR-200-Q319	N	LF		GW	8/22/2019		9.8			ND (1.0)	ND (1.0)	130	61	ND (0.05)	ND (0.5)	14,000							
MW-73-080	MW-73-080-Q319	N	LF		GW	8/22/2019		1.7			20	18	ND (0.5)	29	2.9	3.2	11,000							
TW-02D	TW-02D-Q319	N			GW	10/3/2019	160		ND (2.5)	1,600	95	110	ND (0.5)	11		2.3	5,500	360	3,300					


<div><div></div><div>Design &amp; Consultancy for natural and built assets</div></div> <div>PMP 2019-08 Sampling</div>						Lab	ASSET Alkalinity, total as CaCO3 SM 2320 B mg/L	ASSET Calcium, dissolved EPA 200.7 mg/L	ASSET Chloride EPA 300.0 mg/L	ASSET Chromium, Hexavalent EPA 218.6 ug/L	ASSET Chromium, total dissolved EPA 200.8 ug/L	ASSET Iron, dissolved EPA 200.7 ug/L	ASSET Magnesium, dissolved EPA 200.7 mg/L	ASSET Manganese, dissolved EPA 200.8 ug/L	ASSET Nitrate/Nitrite as Nitrogen SM 4500-NO3 F mg/L	ASSET pH SM 4500-H+ B PHUNITS	ASSET Sodium, dissolved EPA 200.7 mg/L	ASSET Specific conductance EPA 120.1 uS/cm	ASSET Sulfate EPA 300.0 mg/L	ASSET Total dissolved solids SM 2540 C mg/L
Location ID	Sample ID	Sample Type	Sample Method	Matrix	Date Sampled															
PE-01	PE-01-0819	N	G	GW	8/22/2019	230	110	510	ND (0.2)	ND (1.0)	47	30	390	ND (0.05)	7.4	290	2,400	260	1,500	
TW-03D	TW-03D-0819	N	G	GW	8/22/2019	160	190	2,000	410	430	ND (20)	26	ND (0.5)	2.6	7.2	1,400	6,900	480	4,300	

<div><div></div><div><div>Design &amp; Consultancy Lab for natural and built assets</div></div></div>						ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET
Description						Alkalinity, total as CaCO3	Calcium, dissolved	Chloride	Chromium, Hexavalent	Chromium, total dissolved	Iron, dissolved	Magnesium, dissolved	Manganese, dissolved	Nitrate/Nitrite as Nitrogen	pH SM 4500- H+ B PHUNITS	Sodium, dissolved	Specific conductance	Sulfate	ASSET Total dissolved solids				
Method Units						SM 2320 B mg/L	EPA 200.7 mg/L	EPA 300.0 mg/L	EPA 218.6 ug/L	EPA 200.8 ug/L	EPA 200.7 ug/L	EPA 200.7 mg/L	EPA 200.8 ug/L	SM 4500-NO3 F mg/L		EPA 200.7 mg/L	EPA 120.1 uS/cm	EPA 300.0 mg/L	SM 2540 C mg/L				
Location ID	Sample ID	Sample Type	Sample Method	Matrix	Date Sampled																		
PE-01	PE-01-0919	N	G	GW	9/4/2019	220	130	430	0.69	ND (1.0)	150	31	410	ND (0.05)	7.5	300	2,200	250	1,400				
TW-03D	TW-03D-0919	N	G	GW	9/4/2019	160	190	1,900	500	450	ND (20)	25	ND (0.5)	2.7	7.2	1,300	7,200	480	4,200				

<div>  <div> Design &amp; Consultancy for natural and built assets </div> </div> <div> Lab Description Method Units </div>							ASSET  Arsenic, dissolved  SW 6020 ug/L	ASSET  Barium, dissolved  SW 6020 ug/L	ASSET  Chromium, Hexavalent  EPA 218.6 ug/L	ASSET  Chromium, total dissolved  SW 6020 ug/L	ASSET  Iron  SW 6010B ug/L	ASSET  Iron, dissolved  SW 6010B ug/L	ASSET  Manganese, dissolved  SW 6020 ug/L	ASSET  Molybdenum, dissolved  SW 6020 ug/L	ASSET  Nitrate/Nitrite as Nitrogen SM 4500-NO3 F mg/L	ASSET  pH SM 4500-H+ B PHUNITS	ASSET  Selenium, dissolved  SW 6020 ug/L	ASSET  Specific conductance  EPA 120.1 uS/cm	ASSET  Total Suspended Solids (TSS)  SM 2540 D mg/L
RMP 2019-07 SURFACEWAT Sampling																			
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled													
C-BNS	C-BNS-Q319	N	R		GW	8/21/2019	2.2	120	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.4	0.35	8.0	1.3	920	ND (5.0)
C-CON-D	C-CON-D-Q319	N	R		GW	8/22/2019	2.4	110	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.5	0.36	8.0	1.6	870	ND (5.0)
C-CON-S	C-CON-S-Q319	N	R		GW	8/22/2019	2.4	120	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.8	0.36	8.0	1.6	860	ND (5.0)
C-I-3-D	C-I-3-D-Q319	N	R		GW	8/21/2019	2.3	120	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.6	0.39	8.0	1.3	900	ND (5.0)
C-I-3-D	MW-904-Q319	FD		C-I-3-D-Q319	GW	8/21/2019	2.4	120	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.7	0.39	8.0	1.7	910	ND (5.0)
C-I-3-S	C-I-3-S-Q319	N	R		GW	8/21/2019	2.4	120	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.5	0.35	8.0	1.7	910	ND (5.0)
C-MAR-D	C-MAR-D-Q319	N	R		GW	8/22/2019	2.3	110	ND (0.2)	ND (1.0)	290	55	2.6	4.6	0.66	8.1	1.6	860	12
C-MAR-S	C-MAR-S-Q319	N	R		GW	8/22/2019	2.3	110	ND (0.2)	ND (1.0)	220	ND (20)	5.5	4.5	0.36	8.0	1.6	860	12
C-NR1-D	C-NR1-D-Q319	N	R		GW	8/22/2019	2.4	110	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.6	0.35	8.0	1.5	870	ND (5.0)
C-NR1-S	C-NR1-S-Q319	N	R		GW	8/22/2019	2.4	120	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.7	0.34	8.0	1.6	870	ND (5.0)
C-NR3-D	C-NR3-D-Q319	N	R		GW	8/22/2019	2.2	110	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.6	0.34	8.0	1.7	880	ND (5.0)
C-NR3-S	C-NR3-S-Q319	N	R		GW	8/22/2019	2.2	110	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.6	0.34	7.9	1.4	870	ND (5.0)
C-NR4-D	C-NR4-D-Q319	N	R		GW	8/22/2019	2.2	110	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.4	0.42	7.9	1.6	880	ND (5.0)
C-NR4-S	C-NR4-S-Q319	N	R		GW	8/22/2019	2.3	110	ND (0.2)	ND (1.0)	91	ND (20)	ND (0.5)	4.4	0.34	8.0	1.5	880	ND (5.0)
C-R22A-D	C-R22A-D-Q319	N	R		GW	8/21/2019	2.3	120	ND (0.2)	ND (1.0)	43	ND (20)	ND (0.5)	4.5	0.37	8.0	1.5	910	ND (5.0)
C-R22A-S	C-R22A-S-Q319	N	R		GW	8/21/2019	2.3	120	ND (0.2)	ND (1.0)	27	ND (20)	ND (0.5)	4.5	0.34	8.1	1.5	920	ND (5.0)
C-R27-D	C-R27-D-Q319	N	R		GW	8/21/2019	2.4	120	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.6	0.37	8.0	0.87 J	920	ND (5.0)
C-R27-D	MW-905-Q319	FD		C-R27-D-Q319	GW	8/21/2019	2.4	120	ND (0.2)	ND (1.0)	23	ND (20)	ND (0.5)	4.8	0.35	8.0	1.9 J	920	ND (5.0)
C-R27-S	C-R27-S-Q319	N	R		GW	8/21/2019	2.3	120	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.4	0.37	8.0	1.7	920	ND (5.0)
C-TAZ-D	C-TAZ-D-Q319	N	R		GW	8/21/2019	2.4	120	ND (0.2)	ND (1.0)	36 J	ND (20)	ND (0.5)	4.5	1.8	8.0	1.5	890	ND (5.0)
C-TAZ-S	C-TAZ-S-Q319	N	R		GW	8/21/2019	2.4	120	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.6	0.39	8.0	1.3	900	ND (5.0)
R-19	R-19-Q319	N	R		GW	8/22/2019	2.3	110	ND (0.2)	ND (1.0)	35	34	ND (0.5)	4.6	0.31	8.0	1.4	880	ND (5.0)
R-28	R-28-Q319	N	R		GW	8/21/2019	2.1	120	ND (0.2)	ND (1.0)	ND (20)	ND (20)	ND (0.5)	4.4	0.33	8.1	1.2	920	ND (5.0)
R63	R63-Q319	N	R		GW	8/21/2019	2.3	120	ND (0.2)	ND (1.0)	33	ND (20)	ND (0.5)	4.5	0.38	7.9	1.7	910	ND (5.0)
RRB	RRB-Q319	N	Tap		GW	8/22/2019	2.3	120	ND (0.2)	ND (1.0)	35	ND (20)	13	4.5	0.32	7.7	1.6	900	ND (5.0)
SW1	SW1-Q319	N	Tap		GW	8/21/2019			ND (0.2)	ND (1.0)						7.6		950	
SW2	SW2-Q319	N	Tap		GW	8/21/2019			ND (0.2)	ND (1.0)						7.6		960	


<div><div></div><div>Design &amp; Consultancy for natural and built assets</div></div> <div>TMP 2019-07 Baseline Sampling</div>							Lab Description Method Units	ASSET Alkalinity, total as CaCO3  SM 2320 B mg/L	ASSET Aluminum  SW 6010B ug/L	ASSET Aluminum, dissolved  SW 6010B ug/L	ASSET Antimony  SW 6020 ug/L	ASSET Antimony, dissolved  SW 6020 ug/L	ASSET Arsenic  SW 6020 ug/L	ASSET Arsenic, dissolved  SW 6020 ug/L	ASSET Barium  SW 6020 ug/L	ASSET Barium, dissolved  SW 6020 ug/L	ASSET Beryllium  SW 6020 ug/L	ASSET Beryllium, dissolved  SW 6020 ug/L	ASSET Boron  SW 6010B ug/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled													
IRZ-20-SC-49-71	IRZ-20-SC-49-71	N			GW	7/11/2019	72	ND (50)	ND (50)	ND (0.5)	ND (0.5)	1.5	1.6	69	73	ND (0.5)	ND (0.5)	440	
MW-10D	MW-10D-0719	N	LF		GW	7/24/2019	120	200	ND (50)	4.3	4.5	1.9	1.6	120	110	ND (0.5)	ND (0.5)	1,100	
MW-B-117	MW-B-117-0719	N	LF		GW	7/23/2019	80	69	ND (50)	ND (0.5)	ND (0.5)	2.1	2.1	100	94	ND (2.5)	ND (0.5)	880	
MW-B-33	MW-906-Q319	FD	LF	MW-B-33-0719	GW	7/23/2019	86	620	ND (50)	ND (0.5)	ND (0.5)	3.2	2.9	96	86	ND (0.5)	ND (0.5)	560	
MW-B-33	MW-B-33-0719	N	LF		GW	7/23/2019	85	620	ND (50)	ND (0.5)	ND (0.5)	3.2	3.1	99	86	ND (0.5)	ND (0.5)	620	
MW-F-60	MW-F-60-3V-0719	N	3V		GW	7/25/2019	82	150	ND (50)	ND (0.5)	ND (0.5)	1.2	1.1	87	92	ND (0.5)	ND (0.5)	640	
MW-F-60	MW-F-60-LF-0719	N	LF		GW	7/25/2019	83	400	ND (50)	ND (0.5)	ND (0.5)	1.3	1.2	94	91	ND (0.5)	ND (0.5)	640	
MW-L-180	MW-907-Q319	FD	LF	MW-L-180-0719	GW	7/25/2019	37	460	ND (50)	ND (0.5)	ND (0.5)	3.9	3.1	56	54	ND (0.5)	ND (0.5)	1,400	
MW-L-180	MW-L-180-0719	N	LF		GW	7/25/2019	38	390	ND (50)	ND (0.5)	ND (0.5)	3.8	3.1	55	55	ND (0.5)	ND (0.5)	1,400	
MW-M-132	MW-M-132-0719	N	LF		GW	7/22/2019	62	1,500	ND (50)	ND (0.5)	ND (0.5)	2.5	2.3	180	170	ND (2.5)	ND (0.5)	1,000	
MW-M-193	MW-M-193-0719	N	LF		GW	7/22/2019	49	2,100	70	ND (0.5)	ND (0.5)	3.5	2.8	110	98	ND (2.5)	ND (0.5)	1,700	
MW-M-57	MW-M-57-0719	N	LF		GW	7/22/2019	80	890	ND (50)	ND (0.5)	ND (0.5)	1.2	1.1	49	42	ND (0.5)	ND (0.5)	420	
MW-M-95	MW-M-95-0719	N	LF		GW	7/22/2019	55	220	ND (50)	ND (0.5)	ND (0.5)	1.2	1.1	290	270	ND (0.5)	ND (0.5)	450	
MW-N-217	MW-N-217-0719	N	LF		GW	7/23/2019	110	430	54	2.7	1.0	4.6	4.6	45	37	ND (0.5)	ND (0.5)	1,000	
MW-R-109	MW-R-109-0719	N	LF		GW	7/23/2019	73	ND (50)	ND (50)	ND (0.5)	ND (0.5)	1.5	1.4	51	46	ND (0.5)	ND (0.5)	350	
MW-R-192	MW-R-192-0719	N	LF		GW	7/23/2019	45	760	83	ND (0.5)	ND (0.5)	1.6	1.7	190	190	ND (2.5)	ND (0.5)	1,100	
MW-R-275	MW-R-275-0719	N	LF		GW	7/23/2019	49	320	52	ND (0.5)	ND (0.5)	3.0	2.7	230	220	ND (2.5)	ND (0.5)	1,500	
MW-U-183	MW-U-183-0719	N	LF		GW	7/24/2019	53	350	ND (50)	ND (0.5)	ND (0.5)	1.2	1.1	170	170	ND (0.5)	ND (0.5)	720	
MW-U-273	MW-U-273-0719	N	LF		GW	7/24/2019	58	2,100	51	ND (0.5)	ND (0.5)	6.4	5.4	53	41	ND (0.5)	ND (0.5)	1,200	


<div><div></div><div>Design &amp; Consultancy for natural and built assets</div></div>							Lab Description	ASSET Boron, dissolved	ASSET Bromide	ASSET Cadmium	ASSET Cadmium, dissolved	ASSET Calcium	ASSET Calcium, dissolved	ASSET Chloride	ASSET Chromium, Hexavalent	ASSET Chromium, total	ASSET Chromium, total	ASSET Cobalt	ASSET Cobalt, dissolved
TMP 2019-07 Baseline Sampling							Method Units	SW 6010B mg/L	EPA 300.0 mg/L	SW 6020 ug/L	SW 6020 ug/L	SW 6010B ug/L	SW 6010B mg/L	EPA 300.0 mg/L	EPA 218.6 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled													
IRZ-20-SC-49-71	IRZ-20-SC-49-71	N			GW	7/11/2019	0.5	ND (2.5)	ND (0.5)	ND (0.5)	180,000	200	1,200	87	93	90	ND (0.5)	ND (0.5)	
MW-10D	MW-10D-0719	N	LF		GW	7/24/2019	1.1	ND (2.5)	ND (0.5)	ND (0.5)	100,000	99	880	31	33	29	ND (0.5)	ND (0.5)	
MW-B-117	MW-B-117-0719	N	LF		GW	7/23/2019	0.88	ND (2.5)	ND (0.5)	ND (0.5)	200,000	200	3,400	0.6	4.6	ND (1.0)	ND (0.5)	ND (0.5)	
MW-B-33	MW-906-Q319	FD	LF	MW-B-33-0719	GW	7/23/2019	0.61	ND (2.5)	ND (0.5)	ND (0.5)	170,000	180	1,500	8.3	9.5	6.7 J	ND (0.5)	ND (0.5)	
MW-B-33	MW-B-33-0719	N	LF		GW	7/23/2019	0.58	ND (2.5)	ND (0.5)	ND (0.5)	190,000	170	1,400	8.3	9.6	8.3 J	ND (0.5)	ND (0.5)	
MW-F-60	MW-F-60-3V-0719	N	3V		GW	7/25/2019	0.65	ND (2.5)	ND (0.5)	ND (0.5)	200,000	190	760	2,400	2,400	2,400	0.62	ND (0.5)	
MW-F-60	MW-F-60-LF-0719	N	LF		GW	7/25/2019	0.67	ND (2.5)	ND (0.5)	ND (0.5)	190,000	200	770	2,000	2,300	2,000	0.99	ND (0.5)	
MW-L-180	MW-907-Q319	FD	LF	MW-L-180-0719	GW	7/25/2019	0.7 J	ND (2.5)	ND (0.5)	ND (0.5)	270,000	310	3,600	ND (1.0)	12	1.1	0.53	ND (0.5)	
MW-L-180	MW-L-180-0719	N	LF		GW	7/25/2019	1.5 J	ND (2.5)	ND (0.5)	ND (0.5)	280,000	280	3,700	ND (1.0)	10	1.3	ND (0.5)	ND (0.5)	
MW-M-132	MW-M-132-0719	N	LF		GW	7/22/2019	0.99	ND (2.5)	ND (0.5)	ND (0.5)	270,000	260	2,700	ND (0.2)	7.0	ND (1.0)	1.9	ND (0.5)	
MW-M-193	MW-M-193-0719	N	LF		GW	7/22/2019	1.7	ND (2.5)	ND (0.5)	ND (0.5)	200,000	210	4,100	ND (1.0)	61	1.2	21	1.3	
MW-M-57	MW-M-57-0719	N	LF		GW	7/22/2019	0.4	ND (1.0)	ND (0.5)	ND (0.5)	84,000	82	450	12	15	11	ND (0.5)	ND (0.5)	
MW-M-95	MW-M-95-0719	N	LF		GW	7/22/2019	0.42	ND (2.5)	ND (0.5)	ND (0.5)	290,000	270	1,700	ND (0.2)	ND (1.0)	ND (1.0)	ND (0.5)	ND (0.5)	
MW-N-217	MW-N-217-0719	N	LF		GW	7/23/2019	1.0	ND (1.0)	ND (0.5)	ND (0.5)	71,000	70	1,200	0.66	24	2.8	ND (0.5)	ND (0.5)	
MW-R-109	MW-R-109-0719	N	LF		GW	7/23/2019	0.35	ND (1.0)	ND (0.5)	ND (0.5)	88,000	87	430	11	10	10	ND (0.5)	ND (0.5)	
MW-R-192	MW-R-192-0719	N	LF		GW	7/23/2019	1.1	ND (2.5)	ND (0.5)	ND (0.5)	240,000	240	2,700	ND (0.2)	1.8	ND (1.0)	ND (0.5)	ND (0.5)	
MW-R-275	MW-R-275-0719	N	LF		GW	7/23/2019	1.5	ND (2.5)	ND (0.5)	ND (0.5)	250,000	240	3,500	ND (1.0)	24	2.0	8.1	1.3	
MW-U-183	MW-U-183-0719	N	LF		GW	7/24/2019	1.5	ND (2.5)	ND (0.5)	ND (0.5)	360,000	290	2,200	0.4	2.9	ND (1.0)	ND (0.5)	ND (0.5)	
MW-U-273	MW-U-273-0719	N	LF		GW	7/24/2019	1.3	ND (2.5)	ND (0.5)	ND (0.5)	130,000	140	2,200	0.41	56	1.0	5.2	0.63	


<div><div></div><div>Design &amp; Consultancy for natural and built assets</div></div>							Lab Description	ASSET Copper	ASSET Copper, dissolved	ASSET Fluoride	ASSET Iron	ASSET Iron, dissolved	ASSET Lead	ASSET Lead, dissolved	ASSET Magnesium	ASSET Magnesium, dissolved	ASSET Manganese	ASSET Manganese, dissolved	ASSET Mercury
TMP 2019-07 Baseline Sampling							Method Units	SW 6020 ug/L	SW 6020 ug/L	EPA 300.0 mg/L	SW 6010B ug/L	SW 6010B ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6010B ug/L	SW 6010B mg/L	SW 6020 ug/L	SW 6020 ug/L	EPA 7470A ug/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled													
IRZ-20-SC-49-71	IRZ-20-SC-49-71	N			GW	7/11/2019	ND (1.0)	ND (1.0 J)	2.4	64	35	ND (1.0)	ND (1.0)	29,000	33	ND (0.5)	ND (0.5)	ND (0.2)	
MW-10D	MW-10D-0719	N	LF		GW	7/24/2019	ND (1.0)	ND (1.0)	2.0	330 J	60	ND (1.0)	ND (1.0)	25,000	24	130	ND (0.5)	ND (0.2)	
MW-B-117	MW-B-117-0719	N	LF		GW	7/23/2019	ND (1.0)	ND (1.0)	2.9	130	71	ND (1.0)	ND (1.0)	40,000	40	1,000	1,100	ND (0.2)	
MW-B-33	MW-906-Q319	FD	LF	MW-B-33-0719	GW	7/23/2019	ND (1.0)	ND (1.0)	2.7	790	44	ND (1.0)	ND (1.0)	33,000	36	470	500	ND (0.2)	
MW-B-33	MW-B-33-0719	N	LF		GW	7/23/2019	ND (1.0)	ND (1.0)	2.6	800	53	ND (1.0)	ND (1.0)	38,000	35	480	470	ND (0.2)	
MW-F-60	MW-F-60-3V-0719	N	3V		GW	7/25/2019	ND (1.0)	ND (1.0)	1.7	290	43	ND (1.0)	ND (1.0)	41,000	41	170	170	ND (0.2)	
MW-F-60	MW-F-60-LF-0719	N	LF		GW	7/25/2019	ND (1.0)	ND (1.0)	0.76	620	110	ND (1.0)	ND (1.0)	41,000	43	170	160	ND (0.2)	
MW-L-180	MW-907-Q319	FD	LF	MW-L-180-0719	GW	7/25/2019	ND (1.0)	ND (1.0)	4.3	710	43	ND (5.0)	ND (1.0)	19,000	19	ND (0.5)	ND (0.5)	ND (0.2)	
MW-L-180	MW-L-180-0719	N	LF		GW	7/25/2019	ND (1.0)	ND (1.0)	4.2	640	25	ND (5.0)	ND (5.0)	20,000	20	ND (0.5)	ND (0.5)	ND (0.2)	
MW-M-132	MW-M-132-0719	N	LF		GW	7/22/2019	ND (1.0)	ND (1.0)	3.4	2,700	480	ND (1.0)	ND (1.0)	32,000	31	730	740	ND (0.2)	
MW-M-193	MW-M-193-0719	N	LF		GW	7/22/2019	14	ND (1.0)	4.0	3,400	180	ND (1.0)	ND (1.0)	12,000	11	350	320	ND (0.2)	
MW-M-57	MW-M-57-0719	N	LF		GW	7/22/2019	ND (1.0)	ND (1.0)	1.8	1,300	48	ND (1.0)	ND (1.0)	15,000	15	190	180	ND (0.2)	
MW-M-95	MW-M-95-0719	N	LF		GW	7/22/2019	ND (1.0)	ND (1.0)	2.7	580	230	ND (1.0)	ND (1.0)	53,000	51	1,400	1,400	ND (0.2)	
MW-N-217	MW-N-217-0719	N	LF		GW	7/23/2019	ND (1.0)	ND (1.0)	4.4	610	97	ND (1.0)	ND (1.0)	6,800	6.7	27	26	ND (0.2)	
MW-R-109	MW-R-109-0719	N	LF		GW	7/23/2019	ND (1.0)	ND (1.0)	2.1	53	23	ND (1.0)	ND (1.0)	15,000	15	ND (0.5)	ND (0.5)	ND (0.2)	
MW-R-192	MW-R-192-0719	N	LF		GW	7/23/2019	ND (1.0)	ND (1.0)	3.5	830	300	ND (1.0)	ND (1.0)	27,000	27	480	540	ND (0.2)	
MW-R-275	MW-R-275-0719	N	LF		GW	7/23/2019	3.6	ND (1.0)	4.3	880	260	ND (1.0)	ND (1.0)	23,000	22	500	500	ND (0.2)	
MW-U-183	MW-U-183-0719	N	LF		GW	7/24/2019	ND (1.0)	ND (1.0)	3.0	370	31	ND (1.0)	ND (1.0)	62,000	20	140	120	ND (0.2)	
MW-U-273	MW-U-273-0719	N	LF		GW	7/24/2019	9.5	ND (1.0)	4.8	4,000	60	ND (1.0)	ND (1.0)	8,800	8.4	17	ND (0.5)	ND (0.2)	


<div><div></div><div>Design &amp; Consultancy for natural and built assets</div></div>							Lab Description	ASSET Mercury, dissolved	ASSET Molybdenum	ASSET Molybdenum , dissolved	ASSET Nickel	ASSET Nickel, dissolved	ASSET Nitrate/Nitrit e as SM 4500- NO3 F mg/L	ASSET Potassium, dissolved	ASSET Selenium	ASSET Selenium, dissolved	ASSET Silver	ASSET Silver, dissolved	ASSET Sodium, dissolved
Method Units							EPA 7470A ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6010B mg/L	
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled													
IRZ-20-SC-49-71	IRZ-20-SC-49-71	N			GW	7/11/2019	ND (0.2)	8.0	8.1	6.4	6.7 J	2.8	9.2	1.4	2.0	ND (0.5)	ND (0.5)	670	
MW-10D	MW-10D-0719	N	LF		GW	7/24/2019	ND (0.2)	37	34	1.3	ND (1.0)	5.1	15	5.0	4.6	ND (0.5)	ND (0.5)	610	
MW-B-117	MW-B-117-0719	N	LF		GW	7/23/2019	ND (0.2)	44	43	ND (1.0)	ND (1.0)	0.51	17	0.77	0.52	ND (0.5)	ND (0.5)	2,200	
MW-B-33	MW-906-Q319	FD	LF	MW-B-33-0719	GW	7/23/2019	ND (0.2)	11	11	ND (1.0)	ND (1.0)	0.77	11	0.7	0.56	ND (0.5)	ND (0.5)	830	
MW-B-33	MW-B-33-0719	N	LF		GW	7/23/2019	ND (0.2)	11	11	ND (1.0)	ND (1.0)	0.78	11	0.77	1.1	ND (0.5)	ND (0.5)	830	
MW-F-60	MW-F-60-3V-0719	N	3V		GW	7/25/2019	ND (0.2)	13	14	7.9	2.7	8.1	15	11	11	4.1	ND (0.5)	420	
MW-F-60	MW-F-60-LF-0719	N	LF		GW	7/25/2019	ND (0.2)	14	14	12	3.2	9.8	15	10	10	7.7	ND (0.5)	430	
MW-L-180	MW-907-Q319	FD	LF	MW-L-180-0719	GW	7/25/2019	ND (0.2)	36	35	3.8	ND (1.0)	0.37	15 J	0.71	0.52	1.8	ND (0.5)	1,100 J	
MW-L-180	MW-L-180-0719	N	LF		GW	7/25/2019	ND (0.2)	35	35	2.8	ND (1.0)	0.44	19 J	0.66	0.55	1.2	ND (0.5)	2,100 J	
MW-M-132	MW-M-132-0719	N	LF		GW	7/22/2019	ND (0.2)	24	24	6.7	ND (1.0)	0.13	17	ND (0.5)	ND (0.5)	2.0	ND (0.5)	1,500	
MW-M-193	MW-M-193-0719	N	LF		GW	7/22/2019	ND (0.2)	73	52	110	8.4	0.4	29	0.94	0.69	53	0.85	2,700	
MW-M-57	MW-M-57-0719	N	LF		GW	7/22/2019	ND (0.2)	18	18	1.8	ND (1.0)	7.3	9.1	3.7	3.9	ND (0.5)	ND (0.5)	300	
MW-M-95	MW-M-95-0719	N	LF		GW	7/22/2019	ND (0.2)	11	10	ND (1.0)	ND (1.0)	0.45	13	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	770	
MW-N-217	MW-N-217-0719	N	LF		GW	7/23/2019	ND (0.2)	58	58	3.5	ND (1.0)	ND (0.05)	17	0.72	ND (0.5)	ND (0.5)	ND (0.5)	910	
MW-R-109	MW-R-109-0719	N	LF		GW	7/23/2019	ND (0.2)	14	14	ND (1.0)	ND (1.0)	6.6	11	5.4	4.5	ND (0.5)	ND (0.5)	310	
MW-R-192	MW-R-192-0719	N	LF		GW	7/23/2019	ND (0.2)	27	27	ND (1.0)	ND (1.0)	0.19	16	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1,600	
MW-R-275	MW-R-275-0719	N	LF		GW	7/23/2019	ND (0.2)	63	57	32	6.1	ND (0.05)	23	ND (0.5)	ND (0.5)	26	2.2	2,200	
MW-U-183	MW-U-183-0719	N	LF		GW	7/24/2019	ND (0.2)	12	12	1.3	ND (1.0)	1.8	20	2.2	1.9	ND (0.5)	ND (0.5)	2,400	
MW-U-273	MW-U-273-0719	N	LF		GW	7/24/2019	ND (0.2)	50	44	40	8.6	2.6	17	4.0	3.8	42	1.1	1,500	


<div><div></div><div>Design &amp; Consultancy for natural and built assets</div></div>							Lab	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET
Description							Sulfate	Thallium	Thallium, dissolved	Total dissolved	Total organic carbon	TPH as diesel	TPH as motor oil	Vanadium	Vanadium, dissolved	Zinc	Zinc, dissolved	BC Labs Ammonia as nitrogen SM 4500- NH3 G mg/L							
							EPA 300.0 mg/L	SW 6020 ug/L	SW 6020 ug/L	SM 2540 C mg/L	SM 5310 C mg/L	SW 8015B ug/L	SW 8015B ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	SW 6020 ug/L	
Method Units																									
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled																			
IRZ-20-SC-49-71	IRZ-20-SC-49-71	N			GW	7/11/2019	230	ND (0.5)	ND (0.5)	2,800	ND (1.0)	ND (50)	ND (50)	6.5	6.6	40	40	ND (2.0)							
MW-10D	MW-10D-0719	N	LF		GW	7/24/2019	320	ND (0.5)	ND (0.5)	2,100	ND (1.0)			3.2	2.6	42	30 J	ND (2.0)							
MW-B-117	MW-B-117-0719	N	LF		GW	7/23/2019	530	ND (0.5)	ND (0.5)	6,100	ND (1.0)			ND (1.0)	ND (1.0)	ND (10)	ND (10)	ND (2.0)							
MW-B-33	MW-906-Q319	FD	LF	MW-B-33-0719	GW	7/23/2019	250	ND (0.5)	ND (0.5)	3,200	ND (1.0)			2.4	1.4	ND (10)	ND (10)	ND (2.0)							
MW-B-33	MW-B-33-0719	N	LF		GW	7/23/2019	250	ND (0.5)	ND (0.5)	3,100	ND (1.0)			2.4	1.6	ND (10)	ND (10)	ND (2.0)							
MW-F-60	MW-F-60-3V-0719	N	3V		GW	7/25/2019	390	ND (0.5)	ND (0.5)	2,100	ND (1.0)			3.4	3.0	ND (10)	ND (10)	ND (2.0)							
MW-F-60	MW-F-60-LF-0719	N	LF		GW	7/25/2019	390	ND (0.5)	ND (0.5)	2,100	ND (1.0)			3.3	2.2	ND (10)	ND (10)	ND (2.0)							
MW-L-180	MW-907-Q319	FD	LF	MW-L-180-0719	GW	7/25/2019	490	ND (2.5)	ND (0.5)	6,800	ND (1.0)			8.4	6.8	ND (10)	ND (10)	ND (2.0)							
MW-L-180	MW-L-180-0719	N	LF		GW	7/25/2019	490	ND (2.5)	ND (2.5)	7,000	ND (1.0)			8.0	6.7	ND (10)	ND (10)	ND (2.0)							
MW-M-132	MW-M-132-0719	N	LF		GW	7/22/2019	330	ND (0.5)	ND (0.5)	5,400	ND (1.0)			2.6	ND (1.0)	ND (10)	ND (10)	ND (2.0 )							
MW-M-193	MW-M-193-0719	N	LF		GW	7/22/2019	520	ND (0.5)	ND (0.5)	7,200	ND (1.0)			7.7	3.0	18	ND (10)	ND (2.0)							
MW-M-57	MW-M-57-0719	N	LF		GW	7/22/2019	170	ND (0.5)	ND (0.5)	1,200	ND (1.0)			6.3	4.7	ND (10)	ND (10)	ND (2.0 )							
MW-M-95	MW-M-95-0719	N	LF		GW	7/22/2019	240	ND (0.5)	ND (0.5)	4,300	ND (1.0)			1.3	ND (1.0)	ND (10)	ND (10)	ND (2.0 )							
MW-N-217	MW-N-217-0719	N	LF		GW	7/23/2019	350	ND (0.5)	ND (0.5)	2,600	ND (1.0)			1.7	ND (1.0)	32	ND (10)	ND (2.0)							
MW-R-109	MW-R-109-0719	N	LF		GW	7/23/2019	140	ND (0.5)	ND (0.5)	950	ND (1.0)			2.4	2.4	ND (10)	ND (10)	ND (2.0)							
MW-R-192	MW-R-192-0719	N	LF		GW	7/23/2019	320	ND (0.5)	ND (0.5)	5,100	ND (1.0)			1.4	ND (1.0)	ND (10)	ND (10)	ND (2.0)							
MW-R-275	MW-R-275-0719	N	LF		GW	7/23/2019	430	ND (0.5)	ND (0.5)	6,600	ND (1.0)			1.4	ND (1.0)	38	12	ND (2.0)							
MW-U-183	MW-U-183-0719	N	LF		GW	7/24/2019	450	ND (0.5)	ND (0.5)	5,100	ND (1.0)			3.2	2.6	ND (10)	ND (10)	ND (2.0)							
MW-U-273	MW-U-273-0719	N	LF		GW	7/24/2019	480	ND (0.5)	ND (0.5)	4,300	ND (1.0)			20	14	32	ND (10)	ND (2.0)							


<div><div>ARCADIS</div><div>Design &amp; Consultancy for natural and built assets</div></div> <div>TMP 2019-08 Baseline Sampling</div> <div>Lab</div> <div>Description Method Units</div> <div>ASSET  Alkalinity, total as CaCO3 SM 2320 B mg/L</div> <div>ASSET  Aluminum SW 6010B ug/L</div> <div>ASSET  Aluminum, dissolved SW 6010B ug/L</div> <div>ASSET  Antimony SW 6020 ug/L</div> <div>ASSET  Antimony, dissolved SW 6020 ug/L</div> <div>ASSET  Arsenic SW 6020 ug/L</div> <div>ASSET  Arsenic, dissolved SW 6020 ug/L</div> <div>ASSET  Barium SW 6020 ug/L</div> <div>ASSET  Barium, dissolved SW 6020 ug/L</div> <div>ASSET  Beryllium SW 6020 ug/L</div> <div>ASSET  Beryllium, dissolved SW 6020 ug/L</div>																	
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled											
IRZ-21-L-SC	IRZ-21-L-SC-082419	N			GW	8/24/2019	54	100	ND (50)	ND (0.5)	ND (0.5)	2.3	2.1	130	120	ND (2.5)	ND (12)
IRZ-21-U-SC	IRZ-21-U-SC-082719	N			WATER	8/27/2019	94	ND (50)	ND (50)	ND (0.5)	ND (0.5)	1.9	1.7	45	43	ND (0.5)	ND (2.5)
MW-B-117	MW-B-117-0819	N	3V		GW	8/19/2019	71	ND (50)	230	ND (0.5)	ND (0.5)	1.6	1.6	110	100	ND (2.5)	ND (0.5)
MW-B-33	MW-B-33-0819	N	LF		GW	8/19/2019	85	ND (50)	100	ND (0.5)	ND (0.5)	2.5	2.5	92	88	ND (0.5)	ND (0.5)
MW-C-156	MW-C-156-0819	N	LF		GW	8/23/2019	52	1,100	ND (50)	ND (0.5)	ND (0.5)	3.6	3.3	270	250	ND (12)	ND (12)
MW-C-181	MW-C-181-0819	N	LF		GW	8/23/2019	61	280	ND (250)	ND (0.5)	ND (0.5)	2.6	2.1	320	310	ND (12)	ND (12)
MW-C-218	MW-911-Q319	FD		MW-C-218-0819	GW	8/23/2019	58	1,600 J	ND (250)	ND (0.5)	ND (0.5)	4.9	4.5	350	320	ND (12)	ND (12)
MW-C-218	MW-C-218-0819	N	LF		GW	8/23/2019	60	2,400 J	ND (250)	ND (0.5)	ND (0.5)	5.3	4.5	360	330	ND (12)	ND (12)
MW-L-180	MW-L-180-0819	N	LF		GW	8/22/2019	39	60	ND (50)	ND (0.5)	ND (0.5)	3.8	3.4	58	51	ND (2.5)	ND (2.5)
MW-M-132	MW-M-132-0819	N	LF		GW	8/20/2019	58	290	64	ND (0.5)	ND (0.5)	2.2	1.9	160	160	ND (0.5)	ND (0.5)
MW-M-193	MW-M-193-0819	N	LF		GW	8/20/2019	45	340	ND (50)	ND (0.5)	ND (0.5)	3.7	3.4	87	86	ND (2.5)	ND (2.5)
MW-M-57	MW-M-57-0819	N	LF		GW	8/20/2019	83	240	ND (50)	ND (0.5)	ND (0.5)	1.4	1.4	48	44	ND (0.5)	ND (0.5)
MW-M-95	MW-M-95-0819	N	LF		GW	8/20/2019	65	5,900	ND (50)	ND (0.5)	ND (0.5)	2.2	1.1	280	260	ND (0.5)	ND (0.5)
MW-N-217	MW-N-217-0819	N	LF		GW	8/22/2019	59	740	ND (50)	ND (0.5)	ND (0.5)	6.4	5.7	41	35	ND (2.5)	ND (2.5)
MW-O-120	MW-912-Q319	FD	LF	MW-O-120-0819	GW	8/21/2019	89 J	1,000 J	ND (50)	ND (0.5)	ND (0.5)	1.9	1.4	120	84	ND (2.5)	ND (2.5)
MW-O-120	MW-O-120-0819	N	LF		GW	8/21/2019	56 J	760 J	ND (50)	ND (0.5)	ND (0.5)	1.7	1.5	100	85	ND (2.5)	ND (2.5)
MW-O-140	MW-O-140-0819	N	LF		GW	8/21/2019	84	130	ND (50)	ND (0.5)	ND (0.5)	2.3	2.2	130	120	ND (2.5)	ND (2.5)
MW-O-30	MW-O-30-0819	N	LF		GW	8/21/2019	250	1,600	ND (50)	ND (0.5)	ND (0.5)	5.3	3.9	100	77	ND (0.5)	ND (0.5)
MW-O-66	MW-O-66-0819	N	LF		GW	8/21/2019	210	ND (50)	ND (50)	ND (0.5)	ND (0.5)	3.5	3.4	76	79	ND (0.5)	ND (0.5)
MW-R-109	MW-R-109-0819	N	LF		GW	8/20/2019	84	570	ND (50)	ND (0.5)	ND (0.5)	1.5	1.5	64	60	ND (0.5)	ND (0.5)
MW-R-139	MW-R-139-0819	N	LF		GW	8/20/2019	52	460	ND (50)	ND (0.5)	ND (0.5)	0.92	0.78	330	310	ND (0.5)	ND (0.5)
MW-R-192	MW-R-192-0819	N	LF		GW	8/20/2019	48	500	ND (50)	ND (0.5)	ND (0.5)	1.9	1.9	170	170	ND (2.5)	ND (0.5)
MW-R-275	MW-R-275-0819	N	LF		GW	8/20/2019	43	200	ND (50)	ND (0.5)	ND (0.5)	3.2	2.9	180	170	ND (2.5)	ND (2.5)
MW-U-183	MW-U-183-0819	N	LF		GW	8/21/2019	56	2,300	ND (50)	ND (0.5)	ND (0.5)	1.7	1.1	170	160	ND (0.5)	ND (2.5)


<div><div>ARCADIS</div><div>Design &amp; Consultancy for natural and built assets</div></div> <div>Lab</div>							ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET
Description Method Units							Boron SW 6010B ug/L	Boron, dissolved SW 6010B mg/L	Bromide EPA 300.0 mg/L	Cadmium SW 6020 ug/L	Cadmium, dissolved SW 6020 ug/L	Calcium SW 6010B ug/L	Calcium, dissolved SW 6010B mg/L	Chloride EPA 300.0 mg/L	Chromium, Hexavalent EPA 218.6 ug/L	Chromium, total SW 6020 ug/L	Chromium, total dissolved SW 6020 ug/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled											
IRZ-21-L-SC	IRZ-21-L-SC-082419	N			GW	8/24/2019	1,300	1.3	ND (2.5)	ND (0.5)	ND (0.5)	430,000	430	4,200	1,500	1,700	1,400
IRZ-21-U-SC	IRZ-21-U-SC-082719	N			WATER	8/27/2019	380	0.42	ND (0.5)	ND (0.5)	ND (0.5)	100,000	100	550	160	160	140
MW-B-117	MW-B-117-0819	N	3V		GW	8/19/2019	860	0.85	ND (2.5)	ND (0.5)	ND (0.5)	220,000	210	3,600	1.1	2.9	ND (1.0)
MW-B-33	MW-B-33-0819	N	LF		GW	8/19/2019	650	0.64	ND (2.5)	ND (0.5)	ND (0.5)	190,000	180	1,500	5.2	5.6	4.9
MW-C-156	MW-C-156-0819	N	LF		GW	8/23/2019	1,300	1.3	ND (2.5)	ND (0.5)	ND (0.5)	410,000	400	4,800	ND (1.0)	9.9	ND (1.0)
MW-C-181	MW-C-181-0819	N	LF		GW	8/23/2019	1,200	1.5	ND (2.5)	ND (0.5)	ND (0.5)	570,000	600	5,800	9.5	67	23
MW-C-218	MW-911-Q319	FD		MW-C-218-0819	GW	8/23/2019	2,300	2.3	ND (2.5)	ND (0.5)	ND (0.5)	270,000	260	6,100	ND (1.0)	11	ND (1.0)
MW-C-218	MW-C-218-0819	N	LF		GW	8/23/2019	2,300	2.3	ND (2.5)	ND (0.5)	ND (0.5)	260,000	260	6,100	ND (1.0)	11	ND (1.0)
MW-L-180	MW-L-180-0819	N	LF		GW	8/22/2019	1,300	1.5	ND (2.5)	ND (0.5)	ND (0.5)	310,000	300	3,400	2.8	6.1	2.4
MW-M-132	MW-M-132-0819	N	LF		GW	8/20/2019	960	1.1	ND (2.5)	ND (0.5)	ND (0.5)	290,000	290	2,600	ND (0.2)	2.4	ND (1.0)
MW-M-193	MW-M-193-0819	N	LF		GW	8/20/2019	1,600	1.8	ND (2.5)	ND (0.5)	ND (0.5)	240,000	230	3,900	ND (1.0)	3.9	ND (1.0)
MW-M-57	MW-M-57-0819	N	LF		GW	8/20/2019	380	0.43	ND (0.5)	ND (0.5)	ND (0.5)	88,000	88	400	16	18	17
MW-M-95	MW-M-95-0819	N	LF		GW	8/20/2019	480	0.49	ND (2.5)	ND (0.5)	ND (0.5)	310,000	300	1,600	ND (0.2)	13	ND (1.0)
MW-N-217	MW-N-217-0819	N	LF		GW	8/22/2019	2,200	1.8	ND (2.5)	ND (0.5)	ND (0.5)	240,000	240	3,400	900	980	890
MW-O-120	MW-912-Q319	FD	LF	MW-O-120-0819	GW	8/21/2019	730	0.79	ND (2.5)	ND (0.5)	ND (0.5)	290,000	320	3,400	ND (1.0)	2.5	ND (1.0)
MW-O-120	MW-O-120-0819	N	LF		GW	8/21/2019	770	0.77	ND (2.5)	ND (0.5)	ND (0.5)	300,000	310	3,400	ND (1.0)	2.7	ND (1.0)
MW-O-140	MW-O-140-0819	N	LF		GW	8/21/2019	870	0.86	ND (2.5)	ND (0.5)	ND (0.5)	410,000	410	4,300	ND (1.0)	ND (1.0)	ND (1.0)
MW-O-30	MW-O-30-0819	N	LF		GW	8/21/2019	190	0.17	ND (2.5)	ND (0.5)	ND (0.5)	100,000	95	120	ND (0.2)	4.0	ND (1.0)
MW-O-66	MW-O-66-0819	N	LF		GW	8/21/2019	610	0.67	ND (2.5)	ND (0.5)	ND (0.5)	180,000	210	1,100	ND (0.2)	ND (1.0)	ND (1.0)
MW-R-109	MW-R-109-0819	N	LF		GW	8/20/2019	340	0.3	ND (0.5)	ND (0.5)	ND (0.5)	94,000	88 J	450	18	20	18
MW-R-139	MW-R-139-0819	N	LF		GW	8/20/2019	600	0.58	ND (2.5)	ND (0.5)	ND (0.5)	500,000	480	2,100	ND (1.0)	3.8	ND (1.0)
MW-R-192	MW-R-192-0819	N	LF		GW	8/20/2019	1,100	1.0	ND (2.5)	ND (0.5)	ND (0.5)	280,000	260	2,500	ND (0.2)	1.9	ND (1.0)
MW-R-275	MW-R-275-0819	N	LF		GW	8/20/2019	1,400	1.4	ND (2.5)	ND (0.5)	ND (0.5)	300,000	310	3,400	ND (1.0)	1.9	ND (1.0)
MW-U-183	MW-U-183-0819	N	LF		GW	8/21/2019	690	0.68	ND (2.5)	ND (0.5)	ND (0.5)	390,000	400	2,000	0.29	6.7	ND (1.0)

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Description Method Units							Cobalt SW 6020 ug/L	Cobalt, dissolved SW 6020 ug/L	Copper SW 6020 ug/L	Copper, dissolved SW 6020 ug/L	Fluoride EPA 300.0 mg/L	Iron SW 6010B ug/L	Iron, dissolved SW 6010B ug/L	Lead SW 6020 ug/L	Lead, dissolved SW 6020 ug/L	Magnesium SW 6010B ug/L	Magnesium, dissolved SW 6010B mg/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled											
IRZ-21-L-SC	IRZ-21-L-SC-082419	N			GW	8/24/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.0	170	25	ND (5.0)	ND (5.0)	47,000	51
IRZ-21-U-SC	IRZ-21-U-SC-082719	N			WATER	8/27/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	1.7	33	ND (20)	ND (1.0)	ND (1.0)	23,000	25
MW-B-117	MW-B-117-0819	N	3V		GW	8/19/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.0	110	300	ND (1.0)	ND (1.0)	42,000	41
MW-B-33	MW-B-33-0819	N	LF		GW	8/19/2019	ND (0.5)	ND (0.5)	ND (1.0 J)	ND (1.0)	2.5	34	130	ND (1.0)	ND (1.0)	32,000	32
MW-C-156	MW-C-156-0819	N	LF		GW	8/23/2019	ND (0.5)	ND (0.5)			3.1	2,100 J	260	ND (5.0)	ND (5.0)	37,000	37 J
MW-C-181	MW-C-181-0819	N	LF		GW	8/23/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.6	960	320	ND (5.0)	ND (5.0)	71,000	87
MW-C-218	MW-911-Q319	FD		MW-C-218-0819	GW	8/23/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	4.3	3,100 J	200	ND (5.0)	ND (5.0)	20,000	20
MW-C-218	MW-C-218-0819	N	LF		GW	8/23/2019	0.58	ND (0.5)	1.7	ND (1.0)	4.2	4,300 J	200	ND (5.0)	ND (5.0)	22,000	20
MW-L-180	MW-L-180-0819	N	LF		GW	8/22/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	4.1	99	ND (20)	ND (1.0)	ND (1.0)	17,000	19
MW-M-132	MW-M-132-0819	N	LF		GW	8/20/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.3	760	300	ND (1.0)	ND (1.0)	26,000	29
MW-M-193	MW-M-193-0819	N	LF		GW	8/20/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.9	590	88	ND (1.0)	ND (1.0)	9,900	11
MW-M-57	MW-M-57-0819	N	LF		GW	8/20/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	1.7	340	36	ND (1.0)	ND (1.0)	13,000	15
MW-M-95	MW-M-95-0819	N	LF		GW	8/20/2019	1.9	ND (0.5)	1.4	ND (1.0)	2.5	6,800	120	ND (1.0)	ND (1.0)	54,000	51
MW-N-217	MW-N-217-0819	N	LF		GW	8/22/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	4.4	880	ND (20)	ND (1.0)	ND (1.0)	10,000	9.6
MW-O-120	MW-912-Q319	FD	LF	MW-O-120-0819	GW	8/21/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.5	1,500 J	75 J	ND (1.0)	ND (1.0)	55,000	58
MW-O-120	MW-O-120-0819	N	LF		GW	8/21/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.7	1,100 J	140 J	ND (1.0)	ND (1.0)	56,000	60
MW-O-140	MW-O-140-0819	N	LF		GW	8/21/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.0	620	820	ND (1.0)	ND (1.0)	51,000	54
MW-O-30	MW-O-30-0819	N	LF		GW	8/21/2019	1.1	ND (0.5)	5.0	ND (1.0)	0.74	2,300	190	ND (1.0)	ND (1.0)	29,000	28
MW-O-66	MW-O-66-0819	N	LF		GW	8/21/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.1	790	750	ND (1.0)	ND (1.0)	31,000	36
MW-R-109	MW-R-109-0819	N	LF		GW	8/20/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.2	1,100	47 J	ND (1.0)	ND (1.0)	12,000	11 J
MW-R-139	MW-R-139-0819	N	LF		GW	8/20/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.0	790	110	ND (1.0)	ND (1.0)	67,000	68
MW-R-192	MW-R-192-0819	N	LF		GW	8/20/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.0	680	130	ND (1.0)	ND (1.0)	24,000	22
MW-R-275	MW-R-275-0819	N	LF		GW	8/20/2019	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.9	600	190	ND (1.0)	ND (1.0)	20,000	19
MW-U-183	MW-U-183-0819	N	LF		GW	8/21/2019	0.63	ND (0.5)	ND (1.0)	ND (1.0)	2.6	2,000	ND (20)	ND (1.0)	ND (1.0)	56,000	57


<div><div>ARCADIS</div><div>Design &amp; Consultancy for natural and built assets</div></div> <div>Lab</div>							ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET
Description Method Units							Manganese SW 6020 ug/L	Manganese, dissolved SW 6020 ug/L	Mercury EPA 7470A ug/L	Mercury, dissolved EPA 7470A ug/L	Molybdenum SW 6020 ug/L	Molybdenum, dissolved SW 6020 ug/L	Nickel SW 6020 ug/L	Nickel, dissolved SW 6020 ug/L	Nitrate/Nitrite as Nitrogen SM 4500-NO3 F mg/L	Potassium, dissolved SW 6010B mg/L	Selenium SW 6020 ug/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled											
IRZ-21-L-SC	IRZ-21-L-SC-082419	N			GW	8/24/2019	ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	42	39	70	63	3.0	23	2.2
IRZ-21-U-SC	IRZ-21-U-SC-082719	N			WATER	8/27/2019	ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	7.3	6.6	3.0	2.8	4.1	7.2	3.1
MW-B-117	MW-B-117-0819	N	3V		GW	8/19/2019	1,300	1,300	ND (0.2)	ND (0.2)	44	43	ND (1.0)	ND (1.0)	0.78	18	1.1
MW-B-33	MW-B-33-0819	N	LF		GW	8/19/2019	260	260	ND (0.2)	ND (0.2)	12	12	ND (1.0)	ND (1.0)	0.8	11	0.72
MW-C-156	MW-C-156-0819	N	LF		GW	8/23/2019	970	880	ND (0.2)	ND (0.2)	70	65	4.2	ND (1.0 J)	0.056	34	ND (0.5)
MW-C-181	MW-C-181-0819	N	LF		GW	8/23/2019	1,300	1,200	ND (0.2)	ND (0.2)	56	54	ND (1.0)	ND (1.0)	0.6	39	0.56
MW-C-218	MW-911-Q319	FD		MW-C-218-0819	GW	8/23/2019	400	370	ND (0.2)	ND (0.2)	110	110	1.8	ND (1.0)	0.16	45	ND (0.5)
MW-C-218	MW-C-218-0819	N	LF		GW	8/23/2019	430	380	ND (0.2)	ND (0.2)	110	110	2.2	ND (1.0)	0.14	45	ND (0.5)
MW-L-180	MW-L-180-0819	N	LF		GW	8/22/2019	ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	35	33	ND (1.0)	ND (1.0)	0.46	20	0.73
MW-M-132	MW-M-132-0819	N	LF		GW	8/20/2019	620	620	ND (0.2)	ND (0.2)	26	25	ND (1.0)	ND (1.0)	0.13 J	18	ND (0.5)
MW-M-193	MW-M-193-0819	N	LF		GW	8/20/2019	210	200	ND (0.2)	ND (0.2)	48	50	ND (1.0)	ND (1.0)	0.45 J	30	0.85
MW-M-57	MW-M-57-0819	N	LF		GW	8/20/2019	70	59	ND (0.2)	ND (0.2)	18	18	ND (1.0)	ND (1.0)	7.9 J	7.8	3.5
MW-M-95	MW-M-95-0819	N	LF		GW	8/20/2019	1,100	970	ND (0.2)	ND (0.2)	9.0	9.0	6.9	ND (1.0)	0.67 J	13	ND (0.5)
MW-N-217	MW-N-217-0819	N	LF		GW	8/22/2019	29	29	ND (0.2)	ND (0.2)	96	95	ND (1.0)	ND (1.0)	7.1	27	6.1
MW-O-120	MW-912-Q319	FD	LF	MW-O-120-0819	GW	8/21/2019	1,200	1,000	ND (0.2)	ND (0.2)	54	53	ND (1.0)	ND (1.0)	0.38	17	ND (0.5)
MW-O-120	MW-O-120-0819	N	LF		GW	8/21/2019	1,100	1,100	ND (0.2)	ND (0.2)	53	54	ND (1.0)	ND (1.0)	0.33	17	ND (0.5)
MW-O-140	MW-O-140-0819	N	LF		GW	8/21/2019	2,300	2,200	ND (0.2)	ND (0.2)	61	58	ND (1.0)	ND (1.0)	0.062	25	ND (0.5)
MW-O-30	MW-O-30-0819	N	LF		GW	8/21/2019	510	470	ND (0.2)	ND (0.2)	11	11	32	1.5	ND (0.05)	4.8	ND (0.5)
MW-O-66	MW-O-66-0819	N	LF		GW	8/21/2019	740	830	ND (0.2)	ND (0.2)	23	25	ND (1.0)	ND (1.0)	ND (0.05)	11	ND (0.5)
MW-R-109	MW-R-109-0819	N	LF		GW	8/20/2019	48	34	ND (0.2)	ND (0.2)	13	13	ND (1.0)	ND (1.0)	7.6 J	7.9	5.3
MW-R-139	MW-R-139-0819	N	LF		GW	8/20/2019	300	290	ND (0.2)	ND (0.2)	7.1	7.1	1.3	1.1	0.96 J	17	0.84
MW-R-192	MW-R-192-0819	N	LF		GW	8/20/2019	440	430	ND (0.2)	ND (0.2)	26	27	ND (1.0)	ND (1.0)	0.27 J	16	ND (0.5)
MW-R-275	MW-R-275-0819	N	LF		GW	8/20/2019	480	470	ND (0.2)	ND (0.2)	49	49	ND (1.0)	ND (1.0)	0.16 J	23	ND (0.5)
MW-U-183	MW-U-183-0819	N	LF		GW	8/21/2019	290	110	ND (0.2)	ND (0.2)	12	12	3.6	1.6	1.9	15	2.3

<div><div>ARCADIS</div><div>Design &amp; Consultancy for natural and built assets</div></div> <div>TMP 2019-08 Baseline Sampling</div> <div>Lab</div>							ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET
Description Method Units							Selenium, dissolved SW 6020 ug/L	Silver SW 6020 ug/L	Silver, dissolved SW 6020 ug/L	Sodium, dissolved SW 6010B mg/L	Sulfate EPA 300.0 mg/L	Thallium SW 6020 ug/L	Thallium, dissolved SW 6020 ug/L	Total dissolved solids SM 2540 C mg/L	Total organic carbon SM 5310 C mg/L	TPH as diesel SW 8015B ug/L	TPH as motor oil SW 8015B ug/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled											
IRZ-21-L-SC	IRZ-21-L-SC-082419	N			GW	8/24/2019	2.7	ND (0.5)	ND (0.5)	2,800	570	ND (2.5)	ND (2.5)	9,500	ND (1.0)	ND (50)	ND (50)
IRZ-21-U-SC	IRZ-21-U-SC-082719	N			WATER	8/27/2019	3.0	ND (0.5)	ND (0.5)	350	160	ND (0.5)	ND (0.5)	1,400	ND (1.0)	ND (50)	ND (50)
MW-B-117	MW-B-117-0819	N	3V		GW	8/19/2019	1.1	ND (0.5)	ND (0.5)	2,300	540	ND (0.5)	ND (0.5)	7,200	ND (1.0)		
MW-B-33	MW-B-33-0819	N	LF		GW	8/19/2019	0.76	ND (0.5)	ND (0.5)	830	260	ND (0.5)	ND (0.5)	3,100	ND (1.0)		
MW-C-156	MW-C-156-0819	N	LF		GW	8/23/2019	ND (0.5)	ND (0.5)	ND (0.5)	3,500	710	ND (2.5)	ND (2.5)	10,000	ND (10 J)		
MW-C-181	MW-C-181-0819	N	LF		GW	8/23/2019	0.62	ND (2.5)	ND (0.5)	3,800	870	ND (2.5)	ND (2.5)	12,000	ND (1.0)		
MW-C-218	MW-911-Q319	FD		MW-C-218-0819	GW	8/23/2019	ND (0.5)	ND (0.5)	ND (0.5)	4,400	790	ND (2.5)	ND (2.5)	11,000	ND (1.0)		
MW-C-218	MW-C-218-0819	N	LF		GW	8/23/2019	ND (0.5)	ND (0.5)	ND (0.5)	4,200	790	ND (2.5)	ND (2.5)	12,000	ND (1.0)		
MW-L-180	MW-L-180-0819	N	LF		GW	8/22/2019	ND (0.5)	ND (0.5)	ND (0.5)	2,400	500	ND (0.5)	ND (0.5)	7,200	ND (1.0)		
MW-M-132	MW-M-132-0819	N	LF		GW	8/20/2019	ND (0.5)	ND (0.5)	ND (0.5)	1,800	340	ND (0.5)	ND (0.5)	5,500	ND (1.0)		
MW-M-193	MW-M-193-0819	N	LF		GW	8/20/2019	0.81	ND (0.5)	ND (0.5)	3,100	500	ND (0.5)	ND (0.5)	7,700	ND (1.0)		
MW-M-57	MW-M-57-0819	N	LF		GW	8/20/2019	3.4	ND (0.5)	ND (0.5)	310	160	ND (0.5)	ND (0.5)	1,100	ND (1.0)		
MW-M-95	MW-M-95-0819	N	LF		GW	8/20/2019	0.8	ND (0.5)	ND (0.5)	860	220	0.61	ND (0.5)	3,800	ND (1.0)		
MW-N-217	MW-N-217-0819	N	LF		GW	8/22/2019	6.3	ND (0.5)	ND (0.5)	2,800	990	ND (0.5)	ND (0.5)	7,600	ND (1.0)		
MW-O-120	MW-912-Q319	FD	LF	MW-O-120-0819	GW	8/21/2019	ND (0.5)	ND (0.5)	ND (0.5)	2,800	960	ND (0.5)	ND (0.5)	7,400	ND (1.0)		
MW-O-120	MW-O-120-0819	N	LF		GW	8/21/2019	ND (0.5)	ND (0.5)	ND (0.5)	2,800	980	ND (0.5)	ND (0.5)	7,700	ND (1.0)		
MW-O-140	MW-O-140-0819	N	LF		GW	8/21/2019	ND (0.5)	ND (0.5)	ND (0.5)	3,000	840	ND (0.5)	ND (0.5)	9,100	ND (1.0)		
MW-O-30	MW-O-30-0819	N	LF		GW	8/21/2019	ND (0.5)	ND (0.5)	ND (0.5)	150	250	ND (0.5)	ND (0.5)	830	ND (1.0)		
MW-O-66	MW-O-66-0819	N	LF		GW	8/21/2019	ND (0.5)	ND (0.5)	ND (0.5)	1,200	360	ND (0.5)	ND (0.5)	2,800	ND (1.0)		
MW-R-109	MW-R-109-0819	N	LF		GW	8/20/2019	4.2	ND (0.5)	ND (0.5)	300	160	ND (0.5)	ND (0.5)	1,200	ND (1.0)		
MW-R-139	MW-R-139-0819	N	LF		GW	8/20/2019	1.0	ND (0.5)	ND (0.5)	1,000	330	ND (0.5)	ND (0.5)	4,900	ND (1.0)		
MW-R-192	MW-R-192-0819	N	LF		GW	8/20/2019	ND (0.5)	ND (0.5)	ND (0.5)	1,700	330	ND (0.5)	ND (0.5)	5,400	ND (1.0)		
MW-R-275	MW-R-275-0819	N	LF		GW	8/20/2019	ND (0.5)	ND (0.5)	ND (0.5)	2,500	430	ND (0.5)	ND (0.5)	7,000	ND (1.0)		
MW-U-183	MW-U-183-0819	N	LF		GW	8/21/2019	1.2	ND (0.5)	ND (0.5)	1,200	450	ND (0.5)	ND (0.5)	5,100	ND (1.0)		


<div><div></div><div>Design &amp; Consultancy for natural and built assets</div></div>							Lab	ASSET	ASSET	ASSET	ASSET	Calscience	CTBERK	EUROFINS
Description Method Units								Vanadium SW 6020 ug/L	Vanadium, dissolved SW 6020 ug/L	Zinc SW 6020 ug/L	Zinc, dissolved SW 6020 ug/L	Ammonia as nitrogen EPA 350.1 mg/L	Ammonia as nitrogen A4500NH mg/L	Ammonia as nitrogen A4500NH mg/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled								
IRZ-21-L-SC	IRZ-21-L-SC-082419	N			GW	8/24/2019	3.8	3.9	18	19			0.16	
IRZ-21-U-SC	IRZ-21-U-SC-082719	N			WATER	8/27/2019	9.2	8.6	16	15			0.14	
MW-B-117	MW-B-117-0819	N	3V		GW	8/19/2019	1.4	ND (1.0)	ND (10)	ND (10)		0.0824		
MW-B-33	MW-B-33-0819	N	LF		GW	8/19/2019	1.9	1.7	ND (10 J)	ND (10)		ND (0.05)		
MW-C-156	MW-C-156-0819	N	LF		GW	8/23/2019	3.3	ND (1.0)					0.19	
MW-C-181	MW-C-181-0819	N	LF		GW	8/23/2019	1.5	ND (1.0)	ND (10)	ND (10)			0.25	
MW-C-218	MW-911-Q319	FD		MW-C-218-0819	GW	8/23/2019	4.2	ND (1.0)	ND (10)	ND (10)			0.31	
MW-C-218	MW-C-218-0819	N	LF		GW	8/23/2019	6.1	ND (1.0)	13	ND (10)			0.3	
MW-L-180	MW-L-180-0819	N	LF		GW	8/22/2019	7.5	6.8	ND (10)	ND (10)				ND (0.02)
MW-M-132	MW-M-132-0819	N	LF		GW	8/20/2019	2.2	1.0	ND (10)	ND (10)		ND (0.05)		
MW-M-193	MW-M-193-0819	N	LF		GW	8/20/2019	5.9	4.9	ND (10)	ND (10)		0.0508 F1		
MW-M-57	MW-M-57-0819	N	LF		GW	8/20/2019	7.2	6.2	ND (10)	ND (10)		0.0517		
MW-M-95	MW-M-95-0819	N	LF		GW	8/20/2019	13	2.2	ND (10)	ND (10)		0.0526		
MW-N-217	MW-N-217-0819	N	LF		GW	8/22/2019	7.1	5.4	ND (10)	ND (10)				0.1
MW-O-120	MW-912-Q319	FD	LF	MW-O-120-0819	GW	8/21/2019	3.5	ND (1.0)	ND (10)	ND (10)		0.0805		
MW-O-120	MW-O-120-0819	N	LF		GW	8/21/2019	2.5	ND (1.0)	ND (10)	ND (10)		0.0598		
MW-O-140	MW-O-140-0819	N	LF		GW	8/21/2019	ND (1.0)	ND (1.0)	ND (10)	ND (10)		0.0642		
MW-O-30	MW-O-30-0819	N	LF		GW	8/21/2019	4.0	ND (1.0)	12	ND (10)		0.0912		
MW-O-66	MW-O-66-0819	N	LF		GW	8/21/2019	ND (1.0)	ND (1.0)	ND (10)	ND (10)		0.0507		
MW-R-109	MW-R-109-0819	N	LF		GW	8/20/2019	4.0	3.0	ND (10)	ND (10)		0.0656		
MW-R-139	MW-R-139-0819	N	LF		GW	8/20/2019	2.9	1.9	ND (10)	ND (10)		ND (0.05)		
MW-R-192	MW-R-192-0819	N	LF		GW	8/20/2019	2.4	1.6	ND (10)	ND (10)		ND (0.05)		
MW-R-275	MW-R-275-0819	N	LF		GW	8/20/2019	1.7	ND (1.0)	ND (10)	ND (10)		ND (0.05)		
MW-U-183	MW-U-183-0819	N	LF		GW	8/21/2019	6.0	2.6	ND (10)	ND (10)		ND (0.05)		

<div>  <div> Design &amp; Consultancy for natural and built assets </div> </div> <div> <div>TMP 2019-09 Baseline Sampling</div> </div> <div> Lab Description Description Method Units </div>							ASSET Alkalinity, total as CaCO3 Alkalinity, total as CaCO3 SM 2320 B mg/L	ASSET Aluminum  Aluminum SW 6010B ug/L	ASSET Aluminum, dissolved Aluminum, dissolved SW 6010B ug/L	ASSET  Antimony  Antimony SW 6020 ug/L	ASSET Antimony, dissolved Antimony, dissolved SW 6020 ug/L	ASSET  Arsenic  Arsenic SW 6020 ug/L	ASSET Arsenic, dissolved Arsenic, dissolved SW 6020 ug/L	ASSET  Barium  Barium SW 6020 ug/L	ASSET Barium, dissolved Barium, dissolved SW 6020 ug/L	ASSET  Beryllium  Beryllium SW 6020 ug/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled										
IRZ-19-131-136	IRZ-19-131-136	N			GW	9/9/2019										
IRZ-19-131-136	IRZ-19-142-147	N			GW	9/9/2019										
IRZ-25-SC-135-166	IRZ-25-SC-135-166	N			GW	9/19/2019	61	ND (250)	ND (250)	ND (0.5)	ND (0.5)	4.2	4.4	32	31	ND (2.5)
IRZ-25-SC-77-100	IRZ-25-SC-77-100	N			GW	9/21/2019	130	ND (50)	ND (50)	ND (0.5)	ND (0.5)	1.8	1.8	30	30	ND (0.5)
IRZ-25-SC-50-67	IRZ-25-SC-50-67	N			GW	9/23/2019	100	ND (50)	ND (50)	ND (0.5)	ND (0.5)	1.5	1.5	32	32	ND (0.5)
MW-10D	MW-10D-0919	N	LF		GW	9/25/2019	130	250	ND (50)	ND (0.5)	ND (0.5)	1.3	1.1	74	61	ND (2.5)
MW-B-117	MW-B-117-0919	N	LF		GW	9/27/2019	75	ND (50)	ND (50)	ND (0.5)	ND (0.5)	1.4	1.6	94	96	ND (2.5)
MW-B-33	MW-B-33-0919	N	LF		GW	9/27/2019	82	200	ND (50)	ND (0.5)	ND (0.5)	3.1	2.9	94	85	ND (0.5)
MW-B-337	MW-B-337-0919	N	LF		GW	9/27/2019	55	ND (250)	ND (250)	ND (0.5)	ND (2.5)	2.0	2.4	70	65	ND (2.5)
MW-C-156	MW-C-156-0919	N	LF		GW	9/24/2019	52	670	ND (250)	1.5	ND (0.5)	3.0	2.6	150	140	ND (2.5)
MW-C-181	MW-913-Q319	FD		MW-C-181-0919	GW	9/24/2019	66	940	ND (250)	ND (0.5)	ND (0.5)	2.7	1.7	210	170	ND (2.5)
MW-C-181	MW-C-181-0919	N	LF		GW	9/24/2019	65	680	ND (250)	ND (0.5)	ND (2.5)	2.5	1.8	220	180	ND (2.5)
MW-C-218	MW-C-218-0919	N	LF		GW	9/24/2019	67	2,400	ND (250)	ND (0.5)	ND (0.5)	6.3	3.6	290	240	ND (2.5)
MW-C-39	MW-C-39-0919	N	LF		GW	9/23/2019	86	70	ND (50)	ND (0.5)	ND (0.5)	1.0	0.99	93	86	ND (0.5)
MW-D-102	MW-D-102-0919	N	LF		GW	10/4/2019										
MW-D-158	MW-D-158-0919	N	LF		GW	10/4/2019										
MW-D-187	MW-D-187-0919	N	LF		GW	10/4/2019										
MW-E-142	MW-E-142-0919	N	LF		GW	9/26/2019	98	190	ND (50)	ND (0.5)	ND (0.5)	4.4	4.1	36	31	ND (2.5)
MW-E-72	MW-E-72-0919	N	LF		GW	9/26/2019	110	120	ND (50)	ND (0.5)	ND (0.5)	1.3	1.3	35	33	ND (0.5)
MW-F-104	MW-F-104-0919	N	LF		GW	9/27/2019	140	ND (50)	ND (50)	ND (0.5)	ND (0.5)	4.7	4.5	50	47	ND (2.5)
MW-F-60	MW-F-60-0919	N	LF		GW	9/27/2019	82	470	ND (50)	ND (0.5)	ND (0.5)	1.1	0.97	84	76	ND (0.5)
MW-G-57	MW-G-57-0919	N	LF		GW	9/27/2019	120	180	ND (50)	ND (0.5)	ND (0.5)	3.0	3.0	37	37	ND (0.5)
MW-G-82	MW-G-82-0919	N	LF		GW	9/27/2019	98	190	ND (50)	ND (0.5)	ND (0.5)	4.1	3.7	49	44	ND (2.5)
MW-H-112	MW-H-112-0919	N	LF		GW	9/25/2019	96	ND (50)	ND (50)	ND (0.5)	ND (0.5)	2.3	2.4	64	65	ND (2.5)
MW-H-168	MW-H-168-0919	N	LF		GW	9/25/2019	65	ND (250)	ND (250)	ND (0.5)	ND (0.5)	2.0	1.8	130	120	ND (2.5)
MW-H-198	MW-H-198-0919	N	LF		GW	9/25/2019	55	380	ND (250)	ND (12)	ND (0.5)	4.6	4.2	130	110	ND (2.5)
MW-H-46	MW-H-46-0919	N	LF		GW	9/25/2019	1,200	300	ND (50)	ND (0.5)	ND (0.5)	11	11	92	86	ND (2.5)
MW-L-180	MW-L-180-0919	N	LF		GW	9/25/2019	40	880	380	ND (0.5)	ND (0.5)	4.2	3.7	57	53	ND (2.5)
MW-L-225	MW-L-225-0919	N	LF		GW	9/25/2019	33	ND (250)	ND (250)	ND (0.5)	ND (0.5)	4.3	4.2	45	44	ND (2.5)
MW-L-245	MW-910-Q319	FD		MW-L-245-0919	GW	9/25/2019	32	ND (250)	ND (250)	ND (12)	ND (0.5)	5.5	5.5	140	130	ND (2.5)
MW-L-245	MW-L-245-0919	N	LF		GW	9/25/2019	30	ND (250)	ND (250)	ND (12)	ND (0.5)	5.4	5.6	140	140	ND (2.5)
MW-L-90	MW-L-90-0919	N	LF		GW	9/25/2019	97	730	88	ND (0.5)	ND (0.5)	0.81	0.55	90	80	ND (2.5)
MW-M-132	MW-908-Q319	FD		MW-M-132-0919	GW	9/25/2019	56	ND (50)	ND (50)	ND (0.5)	ND (0.5)	2.0	2.0	130	140	ND (2.5)
MW-M-132	MW-M-132-0919	N	LF		GW	9/25/2019	56	ND (50)	ND (50)	ND (0.5)	ND (0.5)	2.1	2.0	130	140	ND (2.5)
MW-M-193	MW-M-193-0919	N	LF		GW	9/25/2019	48	760	ND (50)	ND (0.5)	ND (0.5)	4.7	3.9	73	71	ND (2.5)
MW-M-57	MW-M-57-0919	N	LF		GW	9/24/2019	84	1,600	ND (50)	ND (0.5)	ND (0.5)	1.8	1.5	53	45	ND (0.5)
MW-M-95	MW-M-95-0919	N	LF		GW	9/24/2019	62	1,300	140	ND (0.5)	ND (0.5)	1.5	1.2	240	230	ND (2.5)
MW-N-129	MW-909-Q319	FD		MW-N-129-0919	GW	9/24/2019	170	61	ND (50)	ND (0.5)	ND (0.5)	1.2	1.2	63	66	ND (0.5)
MW-N-129	MW-N-129-0919	N	LF		GW	9/24/2019	160	120	ND (50)	ND (0.5)	ND (0.5)	1.1	1.2	65	71	ND (0.5)
MW-N-217	MW-N-217-0919	N	LF		GW	9/24/2019	61	1,800	ND (250)	ND (0.5)	ND (0.5)	6.6	6.3	34	33	ND (2.5)
MW-N-237	MW-N-237-0919	N	LF		GW	9/24/2019	47	790	ND (250)	ND (0.5)	ND (0.5)	6.0	5.5	71	64	ND (2.5)
MW-O-120	MW-O-120-0919	N	LF		GW	9/26/2019	92	ND (50)	ND (50)	ND (0.5)	ND (0.5)	1.6	1.5	74	72	ND (2.5)
MW-O-140	MW-O-140-0919	N	LF		GW	9/26/2019	94	ND (50)	ND (50)	ND (0.5)	ND (0.5)	3.2	3.2	110	110	ND (2.5)
MW-O-30	MW-O-30-0919	N	LF		GW	9/26/2019	240	720	ND (50)	ND (0.5)	ND (0.5)	4.6	3.2	99	73	ND (0.5)
MW-O-66	MW-O-66-0919	N	LF		GW	9/26/2019	180	ND (50)	ND (50)	ND (0.5)	ND (0.5)	3.2	3.2	63	64	ND (0.5)
MW-R-109	MW-R-109-0919	N	LF		GW	9/24/2019	83	1,000	ND (50)	ND (0.5)	ND (0.5)	1.5	1.3	89	82	ND (0.5)
MW-R-139	MW-R-139-0919	N	LF		GW	9/24/2019	53	710	ND (50)	ND (0.5)	ND (0.5)	1.1	0.79	300	280	ND (2.5)
MW-R-192	MW-R-192-0919	N	LF		GW	9/24/2019	47	360	ND (50)	ND (0.5)	ND (0.5)	1.9	1.9	140	140	ND (2.5)
MW-R-275	MW-R-275-0919	N	LF		GW	9/24/2019	46	290	ND (50)	ND (0.5)	ND (0.5)	3.7	3.4	140	130	ND (2.5)
MW-U-183	MW-U-183-0919	N	LF		GW	9/26/2019	55	67	ND (50)	ND (0.5)	ND (0.5)	1.1	1.0	150	150	ND (0.5)
MW-U-273	MW-U-273-0919	N	LF		GW	9/26/2019	59	300	ND (50)	ND (0.5)	ND (0.5)	5.5	5.6	38	36	ND (2.5)
MW-W-31	MW-W-31-0919	N	LF		GW	9/23/2019	840	ND (50)	ND (50)	ND (0.5)	ND (0.5)	5.2	5.3	120	120	ND (0.5)


= Preliminary result

<div>  <div> Design &amp; Consultancy for natural and built assets </div> </div> <div> <div>TMP 2019-09 Baseline Sampling</div> </div> <div> Lab Description Description Method Units </div>							ASSET Beryllium, dissolved Beryllium, dissolved SW 6020 ug/L	ASSET Boron  Boron SW 6010B ug/L	ASSET Boron, dissolved  Boron, dissolved SW 6010B mg/L	ASSET Bromide  Bromide EPA 300.0 mg/L	ASSET Cadmium  Cadmium SW 6020 ug/L	ASSET Cadmium, dissolved Cadmium, dissolved SW 6020 ug/L	ASSET Calcium  Calcium SW 6010B ug/L	ASSET Calcium, dissolved Calcium, dissolved SW 6010B mg/L	ASSET Chloride  Chloride EPA 300.0 mg/L	ASSET Chromium, Hexavalent Chromium, Hexavalent EPA 218.6 ug/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled										
IRZ-19-131-136	IRZ-19-131-136	N			GW	9/9/2019										ND (1.0)
IRZ-19-131-136	IRZ-19-142-147	N			GW	9/9/2019										ND (1.0)
IRZ-25-SC-135-166	IRZ-25-SC-135-166	N			GW	9/19/2019	ND (2.5)	2,500	2,500	ND (2.5)	ND (0.5)	ND (0.5)	360,000	360,000	4,700	5,800
IRZ-25-SC-77-100	IRZ-25-SC-77-100	N			GW	9/21/2019	ND (0.5)	1,000	1.0	ND (2.5)	ND (0.5)	ND (0.5)	130,000	140	730	700
IRZ-25-SC-50-67	IRZ-25-SC-50-67	N			GW	9/23/2019	ND (0.5)	650	0.7	ND (2.5)	ND (0.5)	ND (0.5)	120,000	130	720	2,300
MW-10D	MW-10D-0919	N	LF		GW	9/25/2019	ND (2.5)	1,200	1.3	ND (5.0)	ND (0.5)	ND (0.5)	150,000	160	990	1,300
MW-B-117	MW-B-117-0919	N	LF		GW	9/27/2019	ND (2.5)	820	0.85	ND (2.5)	ND (0.5)	ND (0.5)	230,000	230	3,700	1.6
MW-B-33	MW-B-33-0919	N	LF		GW	9/27/2019	ND (0.5)	610	0.61	ND (2.5)	ND (0.5)	ND (0.5)	190,000	180	1,400	11
MW-B-337	MW-B-337-0919	N	LF		GW	9/27/2019	ND (2.5)	2,700	2.8	ND (2.5)	ND (0.5)	ND (2.5)	240,000	240	11,000	ND (1.0)
MW-C-156	MW-C-156-0919	N	LF		GW	9/24/2019	ND (12)	1,500	1.5	ND (5.0)	ND (0.5)	ND (0.5)	630,000	440	5,300	ND (1.0)
MW-C-181	MW-913-Q319	FD		MW-C-181-0919	GW	9/24/2019	ND (12)	1,500	1.4	ND (5.0)	ND (0.5)	ND (0.5)	640,000	600	6,300	140
MW-C-181	MW-C-181-0919	N	LF		GW	9/24/2019	ND (12)	1,500	1.2	ND (5.0)	ND (0.5)	ND (2.5)	640,000	520	6,400	140
MW-C-218	MW-C-218-0919	N	LF		GW	9/24/2019	ND (12)	2,400	2.5	ND (5.0)	ND (0.5)	ND (0.5)	270,000	270	6,900	ND (1.0)
MW-C-39	MW-C-39-0919	N	LF		GW	9/23/2019	ND (0.5)	500	0.5	ND (2.5)	ND (0.5)	ND (0.5)	160,000	160	990	2.5
MW-D-102	MW-D-102-0919	N	LF		GW	10/4/2019										ND (1.0)
MW-D-158	MW-D-158-0919	N	LF		GW	10/4/2019										ND (1.0)
MW-D-187	MW-D-187-0919	N	LF		GW	10/4/2019										ND (1.0)
MW-E-142	MW-E-142-0919	N	LF		GW	9/26/2019	ND (2.5)	2,100	2.1	ND (5.0)	ND (0.5)	ND (0.5)	290,000	300	3,600	6,000
MW-E-72	MW-E-72-0919	N	LF		GW	9/26/2019	ND (0.5)	630	0.68	ND (2.5)	ND (0.5)	ND (0.5)	110,000	120	470	3,200
MW-F-104	MW-F-104-0919	N	LF		GW	9/27/2019	ND (2.5)	1,600	1.6	ND (5.0)	ND (0.5)	ND (0.5)	160,000	150	2,200	3,100
MW-F-60	MW-F-60-0919	N	LF		GW	9/27/2019	ND (0.5)	620	0.63	ND (5.0)	ND (0.5)	ND (0.5)	210,000	210	750	2,400
MW-G-57	MW-G-57-0919	N	LF		GW	9/27/2019	ND (0.5)	810	0.77	1.5	ND (0.5)	ND (0.5)	100,000	97	1,300	810
MW-G-82	MW-G-82-0919	N	LF		GW	9/27/2019	ND (2.5)	1,000	1.0	ND (5.0)	ND (0.5)	ND (0.5)	270,000	260	2,800	2,000
MW-H-112	MW-H-112-0919	N	LF		GW	9/25/2019	ND (2.5)	1,500	1.5	ND (5.0)	ND (0.5)	ND (0.5)	210,000	220	2,400	ND (1.0)
MW-H-168	MW-H-168-0919	N	LF		GW	9/25/2019	ND (2.5)	1,500	1.4	ND (5.0)	ND (0.5)	ND (0.5)	630,000	540	6,100	ND (1.0)
MW-H-198	MW-H-198-0919	N	LF		GW	9/25/2019	ND (2.5)	2,400	1.9	ND (2.5)	ND (0.5)	ND (0.5)	130,000	100	6,500	ND (1.0)
MW-H-46	MW-H-46-0919	N	LF		GW	9/25/2019	ND (2.5)	1,700	1.6	ND (5.0)	ND (0.5)	ND (0.5)	180,000	180	2,500	ND (1.0)
MW-L-180	MW-L-180-0919	N	LF		GW	9/25/2019	ND (2.5)	1,400	1.6	ND (5.0)	ND (0.5)	ND (0.5)	300,000	340	3,500	3.1
MW-L-225	MW-L-225-0919	N	LF		GW	9/25/2019	ND (2.5)	2,300	2.1	ND (5.0)	ND (2.5)	ND (0.5)	420,000	380	5,300	480
MW-L-245	MW-910-Q319	FD		MW-L-245-0919	GW	9/25/2019	ND (2.5)	2,600	2.4	ND (5.0)	ND (0.5)	ND (0.5)	430,000	410	6,700	ND (1.0)
MW-L-245	MW-L-245-0919	N	LF		GW	9/25/2019	ND (2.5)	2,300	2.4	ND (5.0)	ND (2.5)	ND (0.5)	380,000	400	6,700	ND (2.0)
MW-L-90	MW-L-90-0919	N	LF		GW	9/25/2019	ND (2.5)	290	0.32	ND (5.0)	ND (0.5)	ND (0.5)	150,000	160	550	41
MW-M-132	MW-908-Q319	FD		MW-M-132-0919	GW	9/25/2019	ND (2.5)	1,100	1.1	ND (5.0)	ND (0.5)	ND (0.5)	270,000	280	2,700	ND (0.2)
MW-M-132	MW-M-132-0919	N	LF		GW	9/25/2019	ND (2.5)	1,100	1.1	ND (5.0)	ND (0.5)	ND (0.5)	280,000	280	2,700	ND (0.2)
MW-M-193	MW-M-193-0919	N	LF		GW	9/25/2019	ND (2.5)	2,100	1.6	ND (5.0)	ND (0.5)	ND (0.5)	230,000	220	3,900	6.4
MW-M-57	MW-M-57-0919	N	LF		GW	9/24/2019	ND (2.5)	390	0.41	ND (5.0)	ND (0.5)	ND (0.5)	85,000	83	400	20
MW-M-95	MW-M-95-0919	N	LF		GW	9/24/2019	ND (2.5)	450	0.45	ND (5.0)	ND (0.5)	ND (0.5)	320,000	290	1,700	0.22
MW-N-129	MW-909-Q319	FD		MW-N-129-0919	GW	9/24/2019	ND (2.5)	470	0.48	ND (5.0)	ND (0.5)	ND (0.5)	130,000	120	370	140
MW-N-129	MW-N-129-0919	N	LF		GW	9/24/2019	ND (2.5)	470	0.52	ND (5.0)	ND (0.5)	ND (0.5)	120,000	130	370	140
MW-N-217	MW-N-217-0919	N	LF		GW	9/24/2019	ND (2.5)	9,500	2.4	ND (5.0)	ND (0.5)	ND (0.5)	1,200,000	240	3,600	990
MW-N-237	MW-N-237-0919	N	LF		GW	9/24/2019	ND (2.5)	2,700	2.5	ND (10)	ND (2.5)	ND (0.5)	430,000	400	5,700	1,900
MW-O-120	MW-O-120-0919	N	LF		GW	9/26/2019	ND (2.5)	780	0.81	ND (5.0)	ND (0.5)	ND (0.5)	290,000	290	3,600	ND (1.0)
MW-O-140	MW-O-140-0919	N	LF		GW	9/26/2019	ND (2.5)	900	0.92	ND (5.0)	ND (0.5)	ND (0.5)	370,000	380	4,300	ND (1.0)
MW-O-30	MW-O-30-0919	N	LF		GW	9/26/2019	ND (0.5)	180	0.2	ND (1.0)	ND (0.5)	ND (0.5)	100,000	97	110	ND (0.2)
MW-O-66	MW-O-66-0919	N	LF		GW	9/26/2019	ND (0.5)	620	0.68	ND (5.0)	ND (0.5)	ND (0.5)	180,000	200	1,700	ND (0.2)
MW-R-109	MW-R-109-0919	N	LF		GW	9/24/2019	ND (12)	330	0.34	ND (1.0)	ND (0.5)	ND (0.5)	100,000	100	510	20
MW-R-139	MW-R-139-0919	N	LF		GW	9/24/2019	ND (2.5)	590	0.59	ND (5.0)	ND (0.5)	ND (0.5)	450,000	430	2,200	1.4
MW-R-192	MW-R-192-0919	N	LF		GW	9/24/2019	ND (2.5)	1,200	1.1	ND (10)	ND (0.5)	ND (0.5)	270,000	250	2,600	ND (0.2)
MW-R-275	MW-R-275-0919	N	LF		GW	9/24/2019	ND (2.5)	1,500	1.5	ND (5.0)	ND (0.5)	ND (0.5)	280,000	270	3,500	ND (1.0)
MW-U-183	MW-U-183-0919	N	LF		GW	9/26/2019	ND (0.5)	720	0.77	ND (5.0)	ND (0.5)	ND (0.5)	370,000	370	2,100	0.55
MW-U-273	MW-U-273-0919	N	LF		GW	9/26/2019	ND (0.5)	1,100	1.2	ND (2.5)	ND (0.5)	ND (0.5)	140,000	150	2,100	0.52
MW-W-31	MW-W-31-0919	N	LF		GW	9/23/2019	ND (2.5)	1,700	1.7	ND (5.0)	ND (0.5)	ND (0.5)	380,000	370	3,900	ND (1.0)


= Preliminary result

<div>  <div> Design &amp; Consultancy for natural and built assets </div> </div> <div> <div>TMP 2019-09 Baseline Sampling</div> </div> <div> <div>Lab</div> <div>Description</div> <div>Description Method Units</div> </div>							ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET
							Chromium, total	Chromium, total dissolved Chromium, total dissolved	Cobalt	Cobalt, dissolved	Copper	Copper, dissolved Copper, dissolved	Fluoride	Iron	Iron, dissolved	Lead
							Chromium, total SW 6020 ug/L	Chromium, total dissolved SW 6020 ug/L	Cobalt SW 6020 ug/L	Cobalt, dissolved SW 6020 ug/L	Copper SW 6020 ug/L	Copper, dissolved SW 6020 ug/L	Fluoride EPA 300.0 mg/L	Iron SW 6010B ug/L	Iron, dissolved SW 6010B ug/L	Lead SW 6020 ug/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled										
IRZ-19-131-136	IRZ-19-131-136	N			GW	9/9/2019		ND (1.0)								
IRZ-19-131-136	IRZ-19-142-147	N			GW	9/9/2019		ND (1.0)								
IRZ-25-SC-135-166	IRZ-25-SC-135-166	N			GW	9/19/2019	5,700	6,000	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.6	ND (100)	ND (100)	ND (5.0)
IRZ-25-SC-77-100	IRZ-25-SC-77-100	N			GW	9/21/2019	690	710	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	1.6	ND (20)	ND (20)	ND (1.0)
IRZ-25-SC-50-67	IRZ-25-SC-50-67	N			GW	9/23/2019	2,500	2,700	ND (0.5)	ND (0.5)	5.2	ND (1.0)	1.7	36	ND (20)	ND (1.0)
MW-10D	MW-10D-0919	N	LF		GW	9/25/2019	350	330	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	ND (1.0)	350	46	ND (1.0)
MW-B-117	MW-B-117-0919	N	LF		GW	9/27/2019	2.9	2.0	ND (2.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.6	86	64	ND (1.0)
MW-B-33	MW-B-33-0919	N	LF		GW	9/27/2019	13	11	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.0	250	ND (20)	ND (1.0)
MW-B-337	MW-B-337-0919	N	LF		GW	9/27/2019	ND (5.0)	ND (1.0)	ND (2.5)	ND (0.5)	ND (1.0)	ND (1.0)	7.1	530	370	ND (5.0)
MW-C-156	MW-C-156-0919	N	LF		GW	9/24/2019	11	1.1	ND (0.5)	ND (0.5)	23	ND (1.0)	2.9	2,100	260	140
MW-C-181	MW-913-Q319	FD		MW-C-181-0919	GW	9/24/2019	210	160	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.7	2,800	130	ND (5.0)
MW-C-181	MW-C-181-0919	N	LF		GW	9/24/2019	230	180	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.6	2,100	130	ND (5.0)
MW-C-218	MW-C-218-0919	N	LF		GW	9/24/2019	19	ND (1.0)	1.1	ND (0.5)	ND (1.0)	ND (1.0)	4.3	5,000	180	ND (5.0)
MW-C-39	MW-C-39-0919	N	LF		GW	9/23/2019	4.6	2.9	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.6	100	ND (20)	ND (1.0)
MW-D-102	MW-D-102-0919	N	LF		GW	10/4/2019										
MW-D-158	MW-D-158-0919	N	LF		GW	10/4/2019										
MW-D-187	MW-D-187-0919	N	LF		GW	10/4/2019										
MW-E-142	MW-E-142-0919	N	LF		GW	9/26/2019	6,900	7,300	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.1	280	32	ND (1.0)
MW-E-72	MW-E-72-0919	N	LF		GW	9/26/2019	4,400	4,300	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	1.6	130	ND (20)	ND (1.0)
MW-F-104	MW-F-104-0919	N	LF		GW	9/27/2019	4,100	3,700	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.6	33	ND (20)	ND (1.0)
MW-F-60	MW-F-60-0919	N	LF		GW	9/27/2019	3,200	3,100	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	1.0	670	ND (20)	ND (1.0)
MW-G-57	MW-G-57-0919	N	LF		GW	9/27/2019	1,100	870	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.9	260	21	ND (1.0)
MW-G-82	MW-G-82-0919	N	LF		GW	9/27/2019	2,700	2,600	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.2	320	ND (20)	ND (1.0)
MW-H-112	MW-H-112-0919	N	LF		GW	9/25/2019	1.4	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.9	260	180	ND (5.0)
MW-H-168	MW-H-168-0919	N	LF		GW	9/25/2019	ND (1.0)	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	2.7	400	240	ND (1.0)
MW-H-198	MW-H-198-0919	N	LF		GW	9/25/2019	3.7	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	6.1	930	110	ND (1.0)
MW-H-46	MW-H-46-0919	N	LF		GW	9/25/2019	2.3	ND (1.0)	1.1	0.92	ND (1.0)	ND (1.0)	2.3	2,900	2,400	ND (5.0)
MW-L-180	MW-L-180-0919	N	LF		GW	9/25/2019	9.8	3.4	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	4.5	1,000	250	ND (1.0)
MW-L-225	MW-L-225-0919	N	LF		GW	9/25/2019	500	480	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	4.5	150	ND (100)	ND (1.0)
MW-L-245	MW-910-Q319	FD		MW-L-245-0919	GW	9/25/2019	1.4	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	4.7	ND (100)	ND (100)	ND (5.0)
MW-L-245	MW-L-245-0919	N	LF		GW	9/25/2019	1.4	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	4.3	ND (100)	ND (100)	ND (1.0)
MW-L-90	MW-L-90-0919	N	LF		GW	9/25/2019	43	42	ND (0.5)	ND (0.5)	ND (1.0)	2.4	1.4	980	56	ND (1.0)
MW-M-132	MW-908-Q319	FD		MW-M-132-0919	GW	9/25/2019	ND (1.0)	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)		190	160	ND (1.0)
MW-M-132	MW-M-132-0919	N	LF		GW	9/25/2019	ND (1.0)	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)		180	230	ND (1.0)
MW-M-193	MW-M-193-0919	N	LF		GW	9/25/2019	20	7.5	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)		1,500	90	ND (1.0)
MW-M-57	MW-M-57-0919	N	LF		GW	9/24/2019	26	23	0.85	ND (0.5)	ND (1.0)	ND (1.0)	9.0	2,500	ND (20)	ND (1.0)
MW-M-95	MW-M-95-0919	N	LF		GW	9/24/2019	3.7	ND (1.0)	0.74	ND (0.5)	ND (1.0)	ND (1.0)	2.2	2,000	250	ND (5.0)
MW-N-129	MW-909-Q319	FD		MW-N-129-0919	GW	9/24/2019	150	160	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	ND (1.0)	110	28	ND (1.0)
MW-N-129	MW-N-129-0919	N	LF		GW	9/24/2019	140	170	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	ND (1.0)	170	ND (20)	ND (1.0)
MW-N-217	MW-N-217-0919	N	LF		GW	9/24/2019	990	1,100	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	9.2	2,700	ND (100)	ND (5.0)
MW-N-237	MW-N-237-0919	N	LF		GW	9/24/2019	1,900	2,100	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	4.8	1,500	ND (100)	ND (5.0)
MW-O-120	MW-O-120-0919	N	LF		GW	9/26/2019	ND (1.0)	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.1	32	28	ND (1.0)
MW-O-140	MW-O-140-0919	N	LF		GW	9/26/2019	ND (1.0)	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.6	510	500	ND (1.0)
MW-O-30	MW-O-30-0919	N	LF		GW	9/26/2019	4.2	ND (1.0)	0.8	ND (0.5)	ND (1.0)	ND (1.0)	0.85	1,500	180	ND (1.0)
MW-O-66	MW-O-66-0919	N	LF		GW	9/26/2019	1.4	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	4.7	600	640	ND (1.0)
MW-R-109	MW-R-109-0919	N	LF		GW	9/24/2019	24	23	0.54	ND (0.5)	ND (1.0)	ND (1.0)	2.1	1,500	ND (20)	ND (1.0)
MW-R-139	MW-R-139-0919	N	LF		GW	9/24/2019	9.3	2.6	0.52	ND (0.5)	ND (1.0)	ND (1.0)	2.3	1,300	160	ND (5.0)
MW-R-192	MW-R-192-0919	N	LF		GW	9/24/2019	2.0	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.9	500	61	ND (5.0)
MW-R-275	MW-R-275-0919	N	LF		GW	9/24/2019	3.4	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	4.3	620	120	ND (5.0)
MW-U-183	MW-U-183-0919	N	LF		GW	9/26/2019	1.4	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	3.7	62	ND (20)	ND (1.0)
MW-U-273	MW-U-273-0919	N	LF		GW	9/26/2019	6.8	1.0	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	5.2	380	ND (20)	ND (1.0)
MW-W-31	MW-W-31-0919	N	LF		GW	9/23/2019	1.7	ND (1.0)	ND (0.5)	ND (0.5)	ND (1.0)	ND (1.0)	1.5	9,700	9,700	ND (5.0)


= Preliminary result

<div> <div>Design &amp; Consultancy for natural and built assets</div></div> <div>TMP 2019-09 Baseline Sampling</div>							Lab	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET
							Description	Lead, dissolved	Magnesium	Magnesium, dissolved	Manganese	Manganese, dissolved	Mercury	Mercury, dissolved	Molybdenum	Molybdenum, dissolved	Nickel
							Description Method Units	Lead, dissolved SW 6020 ug/L	Magnesium SW 6010B ug/L	Magnesium, dissolved SW 6010B mg/L	Manganese SW 6020 ug/L	Manganese, dissolved SW 6020 ug/L	Mercury EPA 7470A ug/L	Mercury, dissolved EPA 7470A ug/L	Molybdenum SW 6020 ug/L	Molybdenum, dissolved SW 6020 ug/L	Nickel SW 6020 ug/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled											
IRZ-19-131-136	IRZ-19-131-136	N			GW	9/9/2019											
IRZ-19-131-136	IRZ-19-142-147	N			GW	9/9/2019											
IRZ-25-SC-135-166	IRZ-25-SC-135-166	N			GW	9/19/2019	ND (5.0)	17,000	17,000		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	49	51	2.1
IRZ-25-SC-77-100	IRZ-25-SC-77-100	N			GW	9/21/2019	ND (1.0)	21,000	22		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	9.2	9.3	38
IRZ-25-SC-50-67	IRZ-25-SC-50-67	N			GW	9/23/2019	ND (1.0)	20,000	21		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	12	13	20
MW-10D	MW-10D-0919	N	LF		GW	9/25/2019	ND (1.0)	32,000	33		46	ND (0.5)	ND (0.2)	ND (0.2)	3.4	3.0	ND (1.0)
MW-B-117	MW-B-117-0919	N	LF		GW	9/27/2019	ND (1.0)	43,000	45		1,300	1,300	ND (0.2)	ND (0.2)	40	40	ND (1.0)
MW-B-33	MW-B-33-0919	N	LF		GW	9/27/2019	ND (1.0)	31,000	31		300	220	ND (0.2)	ND (0.2)	11	12	ND (1.0)
MW-B-337	MW-B-337-0919	N	LF		GW	9/27/2019	ND (1.0)	8,700	8.9		570	560	ND (0.2)	ND (0.2)	200	210	ND (1.0)
MW-C-156	MW-C-156-0919	N	LF		GW	9/24/2019	ND (5.0)	88,000	42		650	590	ND (0.2)	ND (0.2)	38	36	9.0
MW-C-181	MW-913-Q319	FD		MW-C-181-0919	GW	9/24/2019	ND (5.0)	90,000	83		1,600	1,500	ND (0.2)	ND (0.2)	43	43	ND (1.0)
MW-C-181	MW-C-181-0919	N	LF		GW	9/24/2019	ND (5.0)	89,000	73		1,600	1,500	ND (0.2)	ND (0.2)	44	45	1.8
MW-C-218	MW-C-218-0919	N	LF		GW	9/24/2019	ND (5.0)	16,000	13		530	400	ND (0.2)	ND (0.2)	96	99	8.6
MW-C-39	MW-C-39-0919	N	LF		GW	9/23/2019	ND (1.0)	22,000	22		460	460	ND (0.2)	ND (0.2)	25	24	2.9
MW-D-102	MW-D-102-0919	N	LF		GW	10/4/2019											
MW-D-158	MW-D-158-0919	N	LF		GW	10/4/2019											
MW-D-187	MW-D-187-0919	N	LF		GW	10/4/2019											
MW-E-142	MW-E-142-0919	N	LF		GW	9/26/2019	ND (1.0)	14,000	14		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	21	20	1.4
MW-E-72	MW-E-72-0919	N	LF		GW	9/26/2019	ND (1.0)	18,000	19		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	6.5	6.4	ND (1.0)
MW-F-104	MW-F-104-0919	N	LF		GW	9/27/2019	ND (1.0)	14,000	15		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	29	27	ND (1.0)
MW-F-60	MW-F-60-0919	N	LF		GW	9/27/2019	ND (1.0)	39,000	38		55	32	ND (0.2)	ND (0.2)	10	9.8	1.4
MW-G-57	MW-G-57-0919	N	LF		GW	9/27/2019	ND (1.0)	12,000	12		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	30	32	1.0
MW-G-82	MW-G-82-0919	N	LF		GW	9/27/2019	ND (1.0)	19,000	19		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	16	16	1.5
MW-H-112	MW-H-112-0919	N	LF		GW	9/25/2019	ND (5.0)	18,000	17		340	350	ND (0.2)	ND (0.2)	13	13	ND (1.0)
MW-H-168	MW-H-168-0919	N	LF		GW	9/25/2019	ND (5.0)	93,000	78		2,700	2,600	ND (0.2)	ND (0.2)	32	30	ND (1.0)
MW-H-198	MW-H-198-0919	N	LF		GW	9/25/2019	ND (5.0)	8,800	6.9		320	270	ND (0.2)	ND (0.2)	150	140	ND (1.0)
MW-H-46	MW-H-46-0919	N	LF		GW	9/25/2019	ND (5.0)	220,000	220		370	340	ND (0.2)	ND (0.2)	28	28	1.5
MW-L-180	MW-L-180-0919	N	LF		GW	9/25/2019	ND (5.0)	19,000	22		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	34	32	ND (1.0)
MW-L-225	MW-L-225-0919	N	LF		GW	9/25/2019	ND (5.0)	25,000	22		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	46	45	ND (1.0)
MW-L-245	MW-910-Q319	FD		MW-L-245-0919	GW	9/25/2019	ND (5.0)	14,000	13		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	63	60	ND (1.0)
MW-L-245	MW-L-245-0919	N	LF		GW	9/25/2019	ND (5.0)	13,000	13		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	62	62	ND (1.0)
MW-L-90	MW-L-90-0919	N	LF		GW	9/25/2019	ND (1.0)	26,000	28		48	ND (0.5)	ND (0.2)	ND (0.2)	3.6	3.4	1.1
MW-M-132	MW-908-Q319	FD		MW-M-132-0919	GW	9/25/2019	ND (5.0)	28,000	28		420	440	ND (0.2)	ND (0.2)	26	26	ND (1.0)
MW-M-132	MW-M-132-0919	N	LF		GW	9/25/2019	ND (5.0)	28,000	29		430	430	ND (0.2)	ND (0.2)	27	26	ND (1.0)
MW-M-193	MW-M-193-0919	N	LF		GW	9/25/2019	ND (5.0)	13,000	11		150	130	ND (0.2)	ND (0.2)	49	47	ND (1.0)
MW-M-57	MW-M-57-0919	N	LF		GW	9/24/2019	ND (1.0)	14,000	14		80	ND (0.5)	ND (0.2)	ND (0.2)	17	17	2.5
MW-M-95	MW-M-95-0919	N	LF		GW	9/24/2019	ND (1.0)	50,000	50		540	490	ND (0.2)	ND (0.2)	7.9	8.1	1.8
MW-N-129	MW-909-Q319	FD		MW-N-129-0919	GW	9/24/2019	ND (1.0)	23,000	25		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	3.6	3.7	9.3
MW-N-129	MW-N-129-0919	N	LF		GW	9/24/2019	ND (1.0)	24,000	26		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	3.3	4.1	7.8
MW-N-217	MW-N-217-0919	N	LF		GW	9/24/2019	ND (5.0)	43,000	12		24	8.4	ND (0.2)	ND (0.2)	97	97	1.4
MW-N-237	MW-N-237-0919	N	LF		GW	9/24/2019	ND (5.0)	17,000	15		120	77	ND (0.2)	ND (0.2)	79	80	3.6
MW-O-120	MW-O-120-0919	N	LF		GW	9/26/2019	ND (1.0)	57,000	58		1,100	1,100	ND (0.2)	ND (0.2)	47	45	ND (1.0)
MW-O-140	MW-O-140-0919	N	LF		GW	9/26/2019	ND (1.0)	49,000	50		3,500	3,700	ND (0.2)	ND (0.2)	60	62	ND (1.0)
MW-O-30	MW-O-30-0919	N	LF		GW	9/26/2019	ND (1.0)	27,000	27		390	340	ND (0.2)	ND (0.2)	10	10	2.3
MW-O-66	MW-O-66-0919	N	LF		GW	9/26/2019	ND (1.0)	31,000	33		590	610	ND (0.2)	ND (0.2)	27	28	ND (1.0)
MW-R-109	MW-R-109-0919	N	LF		GW	9/24/2019	ND (1.0)	15,000	14		84	27	ND (0.2)	ND (0.2)	11	11	1.2
MW-R-139	MW-R-139-0919	N	LF		GW	9/24/2019	ND (1.0)	75,000	70		78	54	ND (0.2)	ND (0.2)	6.5	6.0	13
MW-R-192	MW-R-192-0919	N	LF		GW	9/24/2019	ND (1.0)	26,000	24		340	350	ND (0.2)	ND (0.2)	27	28	ND (1.0)
MW-R-275	MW-R-275-0919	N	LF		GW	9/24/2019	ND (5.0)	21,000	21		450	430	ND (0.2)	ND (0.2)	49	49	1.8
MW-U-183	MW-U-183-0919	N	LF		GW	9/26/2019	ND (1.0)	56,000	56		42	51	ND (0.2)	ND (0.2)	11	10	ND (1.0)
MW-U-273	MW-U-273-0919	N	LF		GW	9/26/2019	ND (1.0)	7,200	7.7		ND (0.5)	ND (0.5)	ND (0.2)	ND (0.2)	39	40	3.3
MW-W-31	MW-W-31-0919	N	LF		GW	9/23/2019	ND (1.0)	220,000	220		280	270	ND (0.2)	ND (0.2)	15	15	ND (1.0)


 = Preliminary result


<div>  <div> Design &amp; Consultancy for natural and built assets </div> </div> <div>TMP 2019-09 Baseline Sampling</div>							Lab	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET	ASSET
Description								Nickel, dissolved	Nitrate/Nitrite as Nitrogen	Potassium, dissolved	Selenium	Selenium, dissolved	Silver	Silver, dissolved	Sodium, dissolved	Sulfate
Description Method Units								Nickel, dissolved SW 6020 ug/L	Nitrate/Nitrite as Nitrogen SM 4500-NO3 F mg/L	Potassium, dissolved SW 6010B mg/L	Selenium SW 6020 ug/L	Selenium, dissolved SW 6020 ug/L	Silver SW 6020 ug/L	Silver, dissolved SW 6020 ug/L	Sodium, dissolved SW 6010B mg/L	Sulfate EPA 300.0 mg/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled										
IRZ-19-131-136	IRZ-19-131-136	N			GW	9/9/2019										
IRZ-19-131-136	IRZ-19-142-147	N			GW	9/9/2019										
IRZ-25-SC-135-166	IRZ-25-SC-135-166	N			GW	9/19/2019	2.1	7.9	30,000	10	12	ND (0.5)	ND (0.5)	3,000,000	880	ND (2.5)
IRZ-25-SC-77-100	IRZ-25-SC-77-100	N			GW	9/21/2019	40	7.8	8.5	8.2	8.6	ND (0.5)	ND (0.5)	530	320	ND (0.5)
IRZ-25-SC-50-67	IRZ-25-SC-50-67	N			GW	9/23/2019	23	11	8.7	8.6	10	ND (0.5)	ND (0.5)	500	330	ND (0.5)
MW-10D	MW-10D-0919	N	LF		GW	9/25/2019	ND (1.0)	13	14	8.1	7.6	ND (0.5)	ND (0.5)	710	370	ND (0.5)
MW-B-117	MW-B-117-0919	N	LF		GW	9/27/2019	ND (1.0)	1.3	18	ND (2.5)	0.95	ND (0.5)	ND (0.5)	2,400	540	ND (0.5)
MW-B-33	MW-B-33-0919	N	LF		GW	9/27/2019	ND (1.0)	1.1	10	1.0	0.92	ND (0.5)	ND (0.5)	750	240	ND (0.5)
MW-B-337	MW-B-337-0919	N	LF		GW	9/27/2019	ND (1.0)	0.39	67	ND (2.5)	ND (0.5)	ND (0.5)	ND (0.5)	6,700	1,700	ND (2.5)
MW-C-156	MW-C-156-0919	N	LF		GW	9/24/2019	1.4	0.9	26	0.94	0.92	ND (0.5)	ND (0.5)	3,400	770	ND (2.5)
MW-C-181	MW-913-Q319	FD		MW-C-181-0919	GW	9/24/2019	ND (1.0)	0.9	31	1.0	0.97	ND (0.5)	ND (0.5)	4,000	890	ND (2.5)
MW-C-181	MW-C-181-0919	N	LF		GW	9/24/2019	ND (1.0)	0.9	30	1.1	ND (2.5)	ND (0.5)	ND (2.5)	4,300	900	ND (2.5)
MW-C-218	MW-C-218-0919	N	LF		GW	9/24/2019	ND (1.0)	0.06	49	ND (0.5)	ND (2.5)	ND (2.5)	ND (2.5)	5,100	790	ND (2.5)
MW-C-39	MW-C-39-0919	N	LF		GW	9/23/2019	ND (1.0)	0.91	10	1.1	0.87	ND (0.5)	ND (0.5)	570	190	ND (0.5)
MW-D-102	MW-D-102-0919	N	LF		GW	10/4/2019										
MW-D-158	MW-D-158-0919	N	LF		GW	10/4/2019										
MW-D-187	MW-D-187-0919	N	LF		GW	10/4/2019										
MW-E-142	MW-E-142-0919	N	LF		GW	9/26/2019	ND (1.0)	9.2	31	26	26	ND (0.5)	ND (0.5)	2,300	890	ND (0.5)
MW-E-72	MW-E-72-0919	N	LF		GW	9/26/2019	ND (1.0)	11	8.4	9.5	8.9	ND (0.5)	ND (0.5)	320	310	ND (0.5)
MW-F-104	MW-F-104-0919	N	LF		GW	9/27/2019	ND (1.0)	17	17	80	74	ND (0.5)	ND (0.5)	1,700	870	ND (0.5)
MW-F-60	MW-F-60-0919	N	LF		GW	9/27/2019	ND (1.0)	11	14	11	11	ND (0.5)	ND (0.5)	390	410	ND (0.5)
MW-G-57	MW-G-57-0919	N	LF		GW	9/27/2019	ND (1.0)	15	9.2	31	30	ND (0.5)	ND (0.5)	900	510	ND (0.5)
MW-G-82	MW-G-82-0919	N	LF		GW	9/27/2019	ND (1.0)	10	19	10	11	ND (0.5)	ND (0.5)	1,400	540	ND (0.5)
MW-H-112	MW-H-112-0919	N	LF		GW	9/25/2019	ND (1.0)	0.37	14	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1,700	610	ND (2.5)
MW-H-168	MW-H-168-0919	N	LF		GW	9/25/2019	ND (1.0)	1.3	37	ND (0.5)	ND (0.5)	ND (2.5)	ND (0.5)	4,200	1,100	ND (0.5)
MW-H-198	MW-H-198-0919	N	LF		GW	9/25/2019	ND (1.0)	0.18	42	ND (0.5)	ND (0.5)	ND (2.5)	ND (2.5)	5,000	960	ND (0.5)
MW-H-46	MW-H-46-0919	N	LF		GW	9/25/2019	1.2	0.23	24	1.0	0.95	ND (0.5)	ND (0.5)	2,500	1,500	ND (2.5)
MW-L-180	MW-L-180-0919	N	LF		GW	9/25/2019	ND (1.0)	0.62	20	0.66	0.73	ND (2.5)	ND (0.5)	2,400	500	ND (0.5)
MW-L-225	MW-L-225-0919	N	LF		GW	9/25/2019	ND (1.0)	0.72	27	1.0	0.89	ND (2.5)	ND (0.5)	3,600	670	ND (0.5)
MW-L-245	MW-910-Q319	FD		MW-L-245-0919	GW	9/25/2019	ND (1.0)	0.25	45	ND (0.5)	0.57	ND (2.5)	ND (2.5)	4,600	650	ND (2.5)
MW-L-245	MW-L-245-0919	N	LF		GW	9/25/2019	ND (1.0)	0.25	44	ND (0.5)	ND (0.5)	ND (2.5)	ND (2.5)	4,500	640	ND (0.5)
MW-L-90	MW-L-90-0919	N	LF		GW	9/25/2019	ND (1.0)	4.4	10	3.2	2.9	ND (0.5)	ND (0.5)	260	150	ND (0.5)
MW-M-132	MW-908-Q319	FD		MW-M-132-0919	GW	9/25/2019	ND (1.0)	0.25	18	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1,700	370	ND (0.5)
MW-M-132	MW-M-132-0919	N	LF		GW	9/25/2019	ND (1.0)	0.29	19	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1,800	370	ND (0.5)
MW-M-193	MW-M-193-0919	N	LF		GW	9/25/2019	ND (1.0)	0.66	30	0.96	1.2	ND (0.5)	ND (0.5)	2,800	540	ND (0.5)
MW-M-57	MW-M-57-0919	N	LF		GW	9/24/2019	ND (1.0)	8.6	7.7	3.9	4.6	ND (0.5)	ND (0.5)	280	170	ND (0.5)
MW-M-95	MW-M-95-0919	N	LF		GW	9/24/2019	ND (1.0)	0.71	13	0.8	0.68	ND (0.5)	ND (0.5)	820	220	ND (2.5)
MW-N-129	MW-909-Q319	FD		MW-N-129-0919	GW	9/24/2019	8.3	18	8.7	9.5	11	ND (0.5)	ND (0.5)	260	200	ND (0.5)
MW-N-129	MW-N-129-0919	N	LF		GW	9/24/2019	8.8	18	9.3	9.4	12	ND (0.5)	ND (0.5)	280	200	ND (0.5)
MW-N-217	MW-N-217-0919	N	LF		GW	9/24/2019	ND (1.0)	12	27	6.1	6.0	ND (2.5)	ND (0.5)	2,700	1,000	ND (2.5)
MW-N-237	MW-N-237-0919	N	LF		GW	9/24/2019	ND (1.0)	3.7	37	3.4	3.4	ND (2.5)	ND (2.5)	3,700	860	ND (2.5)
MW-O-120	MW-O-120-0919	N	LF		GW	9/26/2019	ND (1.0)	0.51	16	ND (2.5)	ND (0.5)	ND (0.5)	ND (0.5)	2,500	1,000	ND (0.5)
MW-O-140	MW-O-140-0919	N	LF		GW	9/26/2019	ND (1.0)	ND (0.05)	22	ND (2.5)	ND (0.5)	ND (0.5)	ND (0.5)	2,800	920	ND (0.5)
MW-O-30	MW-O-30-0919	N	LF		GW	9/26/2019	ND (1.0)	ND (0.05)	4.9	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	77	250	ND (0.5)
MW-O-66	MW-O-66-0919	N	LF		GW	9/26/2019	ND (1.0)	ND (0.05)	10	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1,000	370	ND (0.5)
MW-R-109	MW-R-109-0919	N	LF		GW	9/24/2019	ND (1.0)	7.1	8.6	5.9	6.0	ND (0.5)	ND (0.5)	330	170	ND (0.5)
MW-R-139	MW-R-139-0919	N	LF		GW	9/24/2019	8.2	1.0	16	0.83	0.9	ND (0.5)	ND (0.5)	980	340	ND (2.5)
MW-R-192	MW-R-192-0919	N	LF		GW	9/24/2019	ND (1.0)	0.38	16	ND (0.5)	0.87	ND (0.5)	ND (0.5)	1,600	340	ND (2.5)
MW-R-275	MW-R-275-0919	N	LF		GW	9/24/2019	ND (1.0)	0.29	21	0.54	ND (0.5)	ND (0.5)	ND (0.5)	2,200	450	ND (2.5)
MW-U-183	MW-U-183-0919	N	LF		GW	9/26/2019	ND (1.0)	2.4	15	2.4	2.6	ND (0.5)	ND (0.5)	1,100	470	ND (0.5)
MW-U-273	MW-U-273-0919	N	LF		GW	9/26/2019	1.9	2.8	13	3.3	3.9	ND (0.5)	ND (0.5)	1,200	490	ND (0.5)
MW-W-31	MW-W-31-0919	N	LF		GW	9/23/2019	ND (1.0)	ND (0.05)	15	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2,800	1,400	ND (2.5)

= Preliminary result

<div>  <div> Design &amp; Consultancy for natural and built assets </div> </div> <div> <div>TMP 2019-09 Baseline Sampling</div> </div> <div> Lab Description Description Method Units </div>							ASSET Thallium, dissolved Thallium, dissolved SW 6020 ug/L	ASSET Total dissolved solids Total dissolved solids SM 2540 C mg/L	ASSET Total organic carbon Total organic carbon SM 5310 C mg/L	ASSET TPH as diesel TPH as diesel SW 8015B ug/L	ASSET TPH as motor oil TPH as motor oil SW 8015B ug/L	ASSET Vanadium Vanadium SW 6020 ug/L	ASSET Vanadium, dissolved Vanadium, dissolved SW 6020 ug/L	ASSET Zinc Zinc SW 6020 ug/L	ASSET Zinc, dissolved Zinc, dissolved SW 6020 ug/L	CTBERK Ammonia as nitrogen Ammonia as nitrogen A4500NH mg/L
Location ID	Sample ID	Sample Type	Sample Method	Parent Sample	Matrix	Date Sampled										
IRZ-19-131-136	IRZ-19-131-136	N			GW	9/9/2019										
IRZ-19-131-136	IRZ-19-142-147	N			GW	9/9/2019										
IRZ-25-SC-135-166	IRZ-25-SC-135-166	N			GW	9/19/2019	ND (2.5)	8,800	ND (10)	ND (52)	ND (52)	2.0	1.9	110	130	0.6
IRZ-25-SC-77-100	IRZ-25-SC-77-100	N			GW	9/21/2019	ND (0.5)	1,900	ND (1.0)	ND (51)	93	7.1	7.2	34	52	0.22
IRZ-25-SC-50-67	IRZ-25-SC-50-67	N			GW	9/23/2019	ND (0.5)	1,800	ND (1.0)	ND (52)	53	7.1	6.2	54	33	0.14
MW-10D	MW-10D-0919	N	LF		GW	9/25/2019	ND (0.5)	2,200	ND (1.0)			9.2	7.8	ND (10)	ND (10)	0.09 J
MW-B-117	MW-B-117-0919	N	LF		GW	9/27/2019	ND (0.5)	6,500	ND (1.0)			ND (1.0)	ND (1.0)	ND (50)	ND (10)	0.11
MW-B-33	MW-B-33-0919	N	LF		GW	9/27/2019	ND (0.5)	2,700	ND (1.0)			3.5	1.9	ND (10)	ND (10)	0.12
MW-B-337	MW-B-337-0919	N	LF		GW	9/27/2019	ND (0.5)	18,000	ND (1.0)			ND (1.0)	ND (1.0)	ND (50)	ND (10)	0.14
MW-C-156	MW-C-156-0919	N	LF		GW	9/24/2019	ND (2.5)	10,000	ND (1.0)			3.0	ND (1.0)	ND (10)	ND (10)	0.17
MW-C-181	MW-913-Q319	FD		MW-C-181-0919	GW	9/24/2019	ND (2.5)	12,000	ND (1.0)			3.3	ND (1.0)	ND (10)	ND (10)	0.42
MW-C-181	MW-C-181-0919	N	LF		GW	9/24/2019	ND (2.5)	12,000	ND (1.0)			3.5	ND (1.0)	ND (10)	ND (10)	0.17
MW-C-218	MW-C-218-0919	N	LF		GW	9/24/2019	ND (2.5)	12,000	ND (1.0)			6.9	ND (1.0)	27	ND (10)	0.48
MW-C-39	MW-C-39-0919	N	LF		GW	9/23/2019	ND (0.5)	2,200	ND (1.0)			1.3	ND (1.0)	ND (10)	ND (10)	0.25
MW-D-102	MW-D-102-0919	N	LF		GW	10/4/2019										
MW-D-158	MW-D-158-0919	N	LF		GW	10/4/2019										
MW-D-187	MW-D-187-0919	N	LF		GW	10/4/2019										
MW-E-142	MW-E-142-0919	N	LF		GW	9/26/2019	ND (0.5)	6,800	ND (1.0)			2.1	1.6	ND (10)	ND (10)	0.08 J
MW-E-72	MW-E-72-0919	N	LF		GW	9/26/2019	ND (0.5)	1,400	ND (1.0)			6.3	6.0	ND (10)	ND (10)	0.13
MW-F-104	MW-F-104-0919	N	LF		GW	9/27/2019	ND (0.5)	4,900	ND (1.0)			2.8	2.5	ND (10)	ND (10)	0.09 J
MW-F-60	MW-F-60-0919	N	LF		GW	9/27/2019	ND (0.5)	2,000	ND (1.0)			3.3	2.1	ND (10)	ND (10)	0.07 J
MW-G-57	MW-G-57-0919	N	LF		GW	9/27/2019	ND (0.5)	3,000	ND (1.0)			4.3	3.9	ND (10)	ND (10)	0.05 J
MW-G-82	MW-G-82-0919	N	LF		GW	9/27/2019	ND (0.5)	5,200	ND (10)			1.5	ND (1.0)	ND (50)	ND (10)	0.05 J
MW-H-112	MW-H-112-0919	N	LF		GW	9/25/2019	ND (2.5)	4,900	ND (1.0)			1.9	1.9	ND (10)	ND (10)	0.22
MW-H-168	MW-H-168-0919	N	LF		GW	9/25/2019	ND (2.5)	12,000	ND (1.0)			ND (1.0)	ND (1.0)	ND (10)	ND (10)	0.21
MW-H-198	MW-H-198-0919	N	LF		GW	9/25/2019	ND (2.5)	11,000	ND (1.0)			1.5	ND (1.0)	ND (10)	ND (10)	0.21
MW-H-46	MW-H-46-0919	N	LF		GW	9/25/2019	ND (2.5)	6,900	2.3			3.3	2.7	ND (10)	ND (10)	5.8
MW-L-180	MW-L-180-0919	N	LF		GW	9/25/2019	ND (2.5)	6,700	ND (1.0)			10	8.0	ND (10)	ND (10)	0.08 J
MW-L-225	MW-L-225-0919	N	LF		GW	9/25/2019	ND (2.5)	9,500	ND (1.0)			6.8	6.0	ND (10)	ND (10)	0.09 J
MW-L-245	MW-910-Q319	FD		MW-L-245-0919	GW	9/25/2019	ND (2.5)	12,000	ND (1.0)			1.7	1.5	ND (10)	ND (10)	0.07 J
MW-L-245	MW-L-245-0919	N	LF		GW	9/25/2019	ND (2.5)	12,000	ND (1.0)			1.7	1.5	ND (10)	ND (10)	0.08 J
MW-L-90	MW-L-90-0919	N	LF		GW	9/25/2019	ND (0.5)	1,600	ND (1.0)			3.5	1.9	ND (10)	ND (10)	0.08 J
MW-M-132	MW-908-Q319	FD		MW-M-132-0919	GW	9/25/2019	ND (2.5)	4,900	ND (1.0)			2.4	2.2	ND (10)	ND (10)	0.06 J
MW-M-132	MW-M-132-0919	N	LF		GW	9/25/2019	ND (2.5)	5,400	ND (1.0)			2.3	2.1	ND (10)	ND (10)	0.07 J
MW-M-193	MW-M-193-0919	N	LF		GW	9/25/2019	ND (2.5)	6,700	ND (1.0)			9.1	6.6	ND (10)	ND (10)	0.06 J
MW-M-57	MW-M-57-0919	N	LF		GW	9/24/2019	ND (0.5)	1,100	ND (1.0)			10	5.6	ND (10)	ND (10)	0.16
MW-M-95	MW-M-95-0919	N	LF		GW	9/24/2019	0.88	4,100	ND (1.0)			6.1	1.6	ND (10)	ND (10)	0.14
MW-N-129	MW-909-Q319	FD		MW-N-129-0919	GW	9/24/2019	ND (0.5)	1,200	ND (1.0)			7.5	6.7	ND (10)	ND (10)	0.19
MW-N-129	MW-N-129-0919	N	LF		GW	9/24/2019	ND (0.5)	1,200	ND (1.0)			7.2	7.0	ND (10)	ND (10)	0.19
MW-N-217	MW-N-217-0919	N	LF		GW	9/24/2019	ND (2.5)	7,600	ND (1.0)			7.6	5.1	ND (10)	ND (10)	0.14
MW-N-237	MW-N-237-0919	N	LF		GW	9/24/2019	ND (2.5)	10,000	ND (1.0)			6.6	2.7	ND (10)	ND (10)	0.23
MW-O-120	MW-O-120-0919	N	LF		GW	9/26/2019	ND (0.5)	7,400	ND (1.0)			ND (1.0)	ND (1.0)	ND (10)	ND (10)	0.1
MW-O-140	MW-O-140-0919	N	LF		GW	9/26/2019	ND (0.5)	8,300	ND (1.0)			ND (1.0)	ND (1.0)	ND (10)	ND (10)	0.58
MW-O-30	MW-O-30-0919	N	LF		GW	9/26/2019	ND (0.5)	810	1.1			2.2	ND (1.0)	ND (10)	ND (10)	1.8
MW-O-66	MW-O-66-0919	N	LF		GW	9/26/2019	ND (0.5)	3,200	ND (1.0)			ND (1.0)	ND (1.0)	ND (10)	ND (10)	0.36
MW-R-109	MW-R-109-0919	N	LF		GW	9/24/2019	ND (0.5)	1,300	ND (10)			5.4	1.7	ND (10)	ND (10)	0.29
MW-R-139	MW-R-139-0919	N	LF		GW	9/24/2019	ND (0.5)	4,700	ND (1.0)			4.6	1.2	ND (10)	ND (10)	0.21
MW-R-192	MW-R-192-0919	N	LF		GW	9/24/2019	ND (0.5)	5,400	ND (1.0)			3.8	1.7	ND (10)	ND (10)	0.2
MW-R-275	MW-R-275-0919	N	LF		GW	9/24/2019	ND (2.5)	6,500	ND (1.0)			3.5	1.3	ND (10)	ND (10)	0.2
MW-U-183	MW-U-183-0919	N	LF		GW	9/26/2019	ND (0.5)	4,800	ND (10)			2.8	2.5	ND (10)	ND (10)	0.15
MW-U-273	MW-U-273-0919	N	LF		GW	9/26/2019	ND (0.5)	4,200	ND (1.0)			15	15	ND (10)	ND (10)	0.19
MW-W-31	MW-W-31-0919	N	LF		GW	9/23/2019	ND (0.5)	9,100	1.4			2.9	1.3	ND (10)	ND (10)	8.6

= Preliminary result

 <b>ARCADIS</b>					Design & Consultancy for natural and built assets	Lab Description Method Units	ASSET Chromium, Hexavalent EPA 218.6 ug/L	ASSET Chromium, total dissolved SW 6020 ug/L
TMP 2019-09 Post-Development Sampling								
Location ID	Sample ID	Sample Type	Matrix	Date Sampled				
MW-B-337	MW-B-337-090719	N	GW	9/7/2019	ND (1.0)	ND (1.0)		
MW-C-39	MW-C-39-090519	N	GW	9/5/2019	16	14		
MW-D-158	MW-D-158-092419	N	GW	9/24/2019	ND (1.0)	ND (1.0)		
MW-D-187	MW-D-187-092519	N	GW	9/25/2019	ND (1.0)	ND (1.0)		
MW-H-112	MW-H-112-092019	N	GW	9/20/2019	ND (1.0)	ND (1.0)		
MW-H-168	MW-H-168-092119	N	GW	9/21/2019	ND (1.0)	ND (1.0)		
MW-H-198	MW-H-198-092219	N	GW	9/22/2019	ND (1.0)	ND (1.0)		
MW-H-46	MW-H-46-091919	N	GW	9/19/2019	1.4	19		

 = Preliminary result