

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

**Intermountain Generating Facility
Delta, Utah**

Prepared for:
Intermountain Power Service Corporation

Prepared by:
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2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

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Abbreviations

CCR	Coal Combustion Residuals
CB Landfill	Combustion By-Products Landfill
CoC	Chain-of-Custody
DQO	Data Quality Objective
DWQ	Division of Water Quality, UDEQ
DWMRA	Division of Waste Management and Radiation Control, UDEQ
ft	Foot or feet
GWPS	Groundwater Protection Standard
HDPE	High Density Polyethylene
IGF	Intermountain Generating Facility
IPSC	Intermountain Power Service Corporation
LCL/LCB	Lower Confidence Limit/Band
MCL	Maximum Contaminant Level
mg/l	milligrams per liter
mil	millimeter
msl	mean sea level
ORP	Oxygen Reduction Potential
PPM	Parts per million
QA/QC	Quality Assurance and Quality Control
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
SAP	Sampling and Analysis Plan
SOPs	Standard Operating Procedures
Stantec	Stantec Consulting Services Inc.
SSL	Statistically Significant Level
TDS	Total Dissolved Solids
UTL	Upper Tolerance Limit
UDEQ	Utah Department of Environmental Quality
USEPA	United States Environmental Protection Agency

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EXECUTIVE SUMMARY

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1.0 EXECUTIVE SUMMARY

1.1 PURPOSE OF THIS REPORT

On behalf of Intermountain Power Service Corporation (“IPSC”), Stantec Consulting Services Inc. (“Stantec”) has prepared this report to summarize IPSC’s 2024 groundwater monitoring and recovery program pursuant to the United States Environmental Protection Agency’s (“US EPA”) Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals (CCR) from Electric Utilities, 40 CFR 257 Subpart D (the “Federal CCR Rule”) (and the corresponding Utah CCR Rule at Utah Administrative Code R315-319 (the “State CCR Rule”) (collectively, the “CCR Rules”)) at IPSC’s Intermountain Generating Facility (“IGF”) located approximately ten miles north of Delta, Millard County, Utah. IPSC’s compliance program addresses elements prescribed by CCR Rule Parts §257.90 (R315-319-90) Applicability; §257.91 (R315-319-91) Groundwater Monitoring Systems; §257.93 (R315-319-93) Groundwater Sampling and Analysis Requirements; §257.95 (R315-319-95) Assessment Monitoring Program; and §257.96 (R315-319-96) Assessment of Corrective Measures.

IPSC historical reports presented IPSC’s approach for addressing requirements specified by the CCR Rules as well as the facility’s Utah Department of Environmental Quality (“UDEQ”), Division of Water Quality (“DWQ”) Groundwater Discharge Permit No. UGW270004. The UDEQ Division of Waste Management and Radiation Control (“DWMRC”) also has regulatory oversight pursuant to the State CCR Rule, under which DWMRC issued a separate permit on November 23, 2020 for the CCR Units, Permit No. 1601. The CCR Rules apply to each of IPSC’s three (3) CCR units (reference Figures 1 and 2 for regional and site-specific, location maps):

- Combustion By-Products Landfill (“CB Landfill”),
- Bottom Ash Basin [surface impoundment underlain by 80-mil High Density Polyethylene (HDPE) liner], and
- Waste Water Basin (surface impoundment underlain by 80-mil HDPE liner).

This annual summary report is formatted in general accordance with reporting requirements prescribed within §257.90(e) (R315-319-90(e)). The report provides an overview of groundwater monitoring and recovery activities conducted at the site during 2024 and ongoing activities designed to further assess and design corrective measures specified by IPSC’s Groundwater Discharge Permit and the CCR Rules, as outlined in detail within IPSC’s June 2021 *Selection of Remedy Report*.

1.2 BACKGROUND

The DWQ has regulatory oversight for IPSC’s compliance with its Groundwater Discharge Permit, which prescribes operation, monitoring, maintenance, and corrective measure protocols for the Bottom Ash Basin, the Waste Water Basin, and several non-CCR regulated evaporation basins. Figures 1 and 2 identify regional and site-specific location maps.



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As detailed in historical reports, the DWQ and IPSC agreed that IPSC would implement a phased groundwater investigation and recovery program that focused initially on removal of Total Dissolved Solids (TDS)-impacted groundwater located downgradient of, and in relatively-close proximity to, apparent historical release areas at the Bottom Ash Basin. IPSC's DWQ-permitted Groundwater Protection Level for TDS is 1,100 milligrams per liter (mg/L; i.e. parts per million-ppm) at all Groundwater Discharge Permit Compliance Wells, except Compliance Well EMW-3 which has a TDS protection level of 1,219 ppm and is located west of seven newly-constructed evaporation ponds, as depicted on Figures 3 and 4.

The DWQ and IPSC agreed that additional groundwater monitoring wells, including sampling and pump-testing of wells associated with CCR Rule compliance, would be installed to help delineate more precisely the location and hydraulic characteristics of the downgradient leading edge of the TDS plume located southwest of the Bottom Ash Basin. Following delineation of the downgradient leading edge of the TDS plume, then IPSC would evaluate how best to control the downgradient migration of the plume, remediate the plume to permit standards, and ensure ongoing protection to human health and the environment.

Once IPSC's groundwater quality monitoring program expanded under its CCR permit, IPSC identified that TDS had also impacted groundwater quality downgradient of the Waste Water Basin. Historically, since monitoring of water quality began at the IGF, TDS was found to have migrated farther downgradient of the Bottom Ash Basin and Wastewater Basin than any other Groundwater Discharge Permit or CCR water quality analyte, including boron and CCR Appendix IV metals.

Thus, TDS has been used as the leading indicator constituent of impacted groundwater quality for fashioning a more expansive groundwater remediation program. No supplemental wells were deemed necessary downgradient of the Combustion By-Products Landfill, as all CCR constituent concentrations quantified to date represent typical background concentrations.

During 2020, as part of its corrective measure assessment, IPSC installed 25 supplemental wells to more definitively delineate the leading edges of TDS plumes located downgradient (southwest) of the Bottom Ash Basin and the Waste Water Basin. Several of the wells were pump-tested to investigate localized hydraulic characteristics. To date, IPSC has installed several dozen groundwater monitoring wells as part of DWQ and DWMRC regulatory compliance and investigation of the downgradient leading edges of the TDS plumes.

Stantec utilized the 2020 pump-test results and October 2020 groundwater quality data to update its site-specific groundwater fate and transport model. The model was used to help identify which wells might be used for groundwater recovery to help reduce total mass of CCR constituents in groundwater and control the downgradient migration of such constituents.

Final selection and design of the expanded groundwater remedy was documented in IPSC/Stantec's June 2021 *Selection of Remedy Report*. IPSC and Stantec finalized design for planned expansion of IPSC's existing groundwater recovery network by increasing the number of wells being used for groundwater recovery to help reduce total mass of CCR constituents in groundwater in pursuit of

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achieving Groundwater Protection Standards, control the downgradient migration of such constituents, and provide ongoing protection to human health and the environment.

During 2022 through 2023, IPSC installed groundwater recovery pumps, recovered water conveyance piping, additional electricity capacity, and related equipment associated with the expanded groundwater recovery network. Currently, the following wells are used for groundwater recovery:

Bottom Ash Basin Plume Control:

- wells: WR-101, WR-102, WR-103, RW-9, BAC-11, BAC-13, BAC-14, BAC-29, BAC-30, and BAC-31.

Waste Water Basin Plume Control:

- wells: RW-4, WWC-1, WWC-4, WWC-5, WWC-6, WWC-8, WWC-12, WWC-13, WWC-14, WWC-15, WWC-16, and WWC-17.

Original groundwater recovery wells WR-101, WR-102, and WR-103 have been used since 2010 for recovery of TDS-impacted groundwater as part of IPSC's Groundwater Discharge Permit compliance program. The three recovery wells discharge groundwater to the Ash Recycle Basin currently; however, the discharges will be re-directed to the new evaporation ponds during 2025. All other groundwater recovery wells discharge recovered groundwater to the new evaporation ponds, currently.

As additional groundwater quality data is generated and evaluated through statistical analysis, IPSC is prepared to further expand and/or enhance the groundwater monitoring and/or remedial approach, if warranted. However, currently, and for the foreseeable future, the CCR constituent plumes downgradient of the two surface impoundments do not pose any unmitigated risk to human health, ecologic receptors, and/or the environment.

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SPRING AND FALL 2024 MONITORING ACTIVITIES

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2.0 SPRING AND FALL 2024 MONITORING ACTIVITIES

2.1 MONITORING, PURGING, AND SAMPLING PROTOCOL

During each of the two sampling events conducted respectively during Spring and Fall 2024, all CCR compliance wells were purged and sampled, following measurement of static water levels. All water level monitoring and well purging and sampling activities were performed in accordance with measures outlined within IPSC's November 2015 *Ground Water Sampling and Analysis Plan*, a copy of which is posted on IPSC's public website. Groundwater samples were submitted to Chemtech-Ford Laboratories (CTF), a Utah-certified, analytical laboratory under strict Chain-of-Custody protocol.

Figures 3A, 4A, 3B, and 4B present potentiometric maps based on water level measurements collected at CCR monitoring wells during Spring and Fall 2024, including two-feet (2-ft.) and five-feet (5-ft.) contours, respectively. Regional groundwater potentiometric and apparent flow direction characteristics remain similar to those observed historically. The predominant groundwater flow direction in relatively close proximity to the Bottom Ash Basin and the Waste Water Basin is generally toward the southwest, with a more westerly component of flow due west of the northwestern corner of the Waste Water Basin. Groundwater flow in the vicinity of the CB Landfill is generally from the east toward the west.

As discussed in more detail in following report section 3.0, continuous pumping and removal of groundwater from the subsurface at select groundwater recovery wells continues to promote localized declines in elevations of the inferred potentiometric surface near each recovery well. As may be noted by review of Figures 3A, 4A, 3B, and 4B, groundwater recovery/capture zones continue to intercept and remove from the subsurface groundwater impacted by TDS. Future monitoring of groundwater quality, water levels in monitoring and recovery wells, and inferred potentiometric surface elevations will be used to help gauge the success of IPSC's TDS plume control measures.

Table 1 presents groundwater monitoring well construction details, including well completion dates, diameters, depths, screened intervals, and top of casing elevations (mean sea level-msl). Attachment 1 presents monitoring well drilling logs and schematic diagrams. Attachment 2 includes summaries of historical water level measurements including the Spring and Fall 2024 data.

2.2 ANALYTICAL RESULTS

2.2.1 TDS Results

Figures 5A and 5B herein identify TDS concentrations quantified during the Spring and Fall 2024 sampling events, superimposed atop the respective Spring and Fall groundwater flow potentiometric maps utilizing 2-ft. contour intervals. As observed in the past, groundwater quality monitoring data at the boundaries and down-gradient of the CB Landfill (wells CL-1 through CL-8 and WDB-19) are deemed representative of Background water quality conditions.

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The TDS analytical results associated with monitoring of the two surface impoundments are similar to those observed during past monitoring events. TDS-impacted groundwater has migrated to varying distances generally southwest (downgradient) of the Bottom Ash Basin and the Wastewater Basin, depending on area-specific location. There is also a localized area of elevated TDS concentrations located immediately west of the northwestern-most corner of the Wastewater Basin, where there appears to be a more westerly component of groundwater flow. As detailed in section 3.0, IPSC is recovering TDS-impacted groundwater from multiple recovery wells at strategic locations within the TDS plumes and near the downgradient, leading edges of the TDS plumes in pursuit of TDS plume control.

2.2.2 CCR Appendix IV Results – Exploratory Data Analysis

The initial step of statistical analysis was the exploratory data analysis of CCR Appendix IV analytical results generated at the site to date. The process of the exploratory data analysis utilizes simple summary statistics (e.g., mean, median, standard deviation, and percentiles) and graphical representations to identify important characteristics of an analytical dataset, such as the center of the data (i.e., mean, median), variation, distribution, patterns, presence of outliers, and randomness.

Summary statistics were calculated for each well-constituent pair at each CCR-regulated unit (Tables 2A through 2C). These summary statistics include the following information: frequencies of detection, ranges of reporting limits, minimum/maximum detected concentrations, mean concentrations, standard deviations, medians, 95th percentiles, and information such as total number of available samples, frequency of detection, and maximum detected concentrations for each well-constituent pair. Exploratory data plots for each well-constituent pair (i.e., box plots and time series plots - Attachments 3 and 4, respectively) were also constructed to support a visual review of the data and identify potential outliers.

Potential statistical outliers were identified in recent samples using the box plots and time series plots for several CCR constituents in multiple upgradient and downgradient wells. Specifically, elevated non-detect results (reported at the method detection limit) were observed for several constituents in the 2024 analytical results. Statistical outliers are particularly problematic when computing Upper Tolerance Limits (UTLs) from data collected from background wells. Statistical outliers in background data can lead to UTLs that are unnecessarily elevated, which when used as the Groundwater Protection Standards (GWPSs), lack the power to detect Statistically Significant Levels (SSLs) above background.

Specifically, the following statistical outliers were identified in upgradient, background well WW-U-1:

Well ID	Constituent	Sample Date	Result
WW-U-1	Antimony	10/1/2024	<0.09
WW-U-1	Arsenic	10/1/2024	<0.12
WW-U-1	Beryllium	10/1/2024	<0.005
WW-U-1	Cadmium	10/1/2024	<0.006
WW-U-1	Cobalt	10/1/2024	<0.02
WW-U-1	Lead	10/1/2024	<0.06
WW-U-1	Molybdenum	10/1/2024	<0.03
WW-U-1	Selenium	10/1/2024	<0.14

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The outliers identified in the table above were flagged as statistical outliers and not used in the computation of the UTLs, so as to avoid unrealistically elevated limits which lack power to identify potential SSLs.

2.2.3 CCR Appendix IV Results – Comparison of Groundwater Quality Data to Groundwater Protection Standards

Statistical methods consistent with US EPA document “Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities: Unified Guidance” (US EPA 2009; hereafter referred to as the Unified Guidance) were utilized to compare Appendix IV constituent concentrations in groundwater to their respective fixed standards known as the GWPS. Specific to each CCR unit, GWPSs were established for each CCR Appendix IV constituent. GWPSs are represented as the greater value between the US EPA Maximum Contaminant Level (MCL) or US EPA alternative standards (Cobalt, Lead, Lithium, and Molybdenum) or the UTL calculated using historical background data collected from wells upgradient of the CCR units. US EPA MCLs, UTLs, and respective GWPSs are presented for each CCR unit in Table 2D.

The Unified Guidance recommends a confidence interval approach for comparing groundwater quality data to a GWPS. If the underlying population is stable (i.e., no trend is present), then the Unified Guidance indicates that comparison to the GWPS can be made based on a static confidence interval around the mean. However, in the presence of a statistically significant trend, the Unified Guidance recommends constructing a confidence band around a trend line. To determine if there is a SSL above the GWPS for any Appendix IV constituent, the lower confidence limit/band at the latest sampling event is compared to the GWPS. An SSL is declared only when the entire confidence limit/band is above the GWPS.

Constituent/well pairs with a minimum of eight analytical sampling results are eligible for statistical analysis. Additional constituent/well pairs are added to the statistical analysis when the benchmark of eight analytical samples become available through the ongoing monitoring program. As of 2024, no additional wells were added to the statistical analysis using data collected through 2024; i.e., the same wells as were evaluated as last year 2023.

Following the exploratory data analysis, data from each eligible constituent/well pair were screened to identify if there were detected concentrations greater than or equal to their respective GWPSs. If no detected concentrations exceeded the respective GWPS, the constituent/well pair was not statistically evaluated further. If a detected concentration exceeded the GWPS for any constituent/well pair, then linear regression analysis was completed to identify constituent/well pairs with a statistically significant linear trend ($p < 0.05$). As noted above, if no statistically significant linear trend was detected ($p \geq 0.05$), a static confidence interval around the mean was used for comparison to the GWPS. If a statistically significant linear trend was present ($p < 0.05$), a confidence band around the linear regression trend line at the most recent evaluated sampling event was used for comparison to the GWPS. In both cases, 98% confidence intervals were constructed, which correspond to a lower confidence limit with 99% confidence. Non-detect values were conservatively represented at the reported detection limit. Trend lines with confidence bands or means with confidence intervals are included in Attachment 5.

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Table 3 is a graphical (“Stop-Light”) presentation of the statistical findings that includes color-coded cells, as detailed herein. “Green” cells represent constituent/well pairs where no detected concentrations have ever exceeded their respective GWPS. “Yellow” cells represent constituent/well pairs where at least one detected concentration has exceeded its respective GWPS, but the lower confidence limit/confidence band was below the GWPS (not a statistically significant level above the GWPS). “Red” cells represent constituent/well pairs where at least one detected concentration exceeded the respective GWPS, and the lower confidence interval band was above the GWPS. “Red” cells represent SSLs above the GWPS.

The following table presents the CCR Rule Appendix IV constituent/well pair SSLs above the GWPS based on Stantec's evaluation of quantitative analytical results collected through 2024 as part of the CCR Rule monitoring plan. To date, no SSL exceedances have been identified for any constituent/well pair in the Combustion By-products Landfill monitoring network.

CCR Rule Appendix IV SSLs above the GWPSs			
CCR Unit	Constituent/Well Pair	Lower Confidence Limit	GWPS
Bottom Ash Basin	Arsenic/BAC-2	0.0387 mg/l	0.0362 mg/l
	Arsenic/BAC-3	0.0461 mg/l	
	Arsenic/BAC-9	0.0448 mg/l	
	Arsenic/BAC-10	0.0544 mg/l	
	Arsenic/BAC-15	0.0456 mg/l	
	Arsenic/BAC-16	0.0769 mg/l	
	Molybdenum/BAC-2	0.141 mg/L	0.100 mg/L
Waste Water Basin	Arsenic/WWC-1	0.0374 mg/l	0.0153 mg/L
	Arsenic/WWC-3	0.0176 mg/l	
Combustion By-products Landfill	No SSLs above GWPS		

As identified on occasion during past statistical analyses, Stantec's 2024 analysis indicates arsenic SSL exceedances of the respective GWPS at certain wells and a molybdenum SSL exceedance at well BAC-2. The 2024 statistical analysis represents the second statistical analysis of wells BAC-8 through BAC-16 and WWC-9 through WWC-13. Stantec anticipates that, as additional groundwater sampling data is generated during forthcoming years, such supplemental data will help refine our understanding of subsurface conditions and statistical identification of actual SSL exceedances. The constituent well pairs with LCL Appendix IV concentrations above the GWPS will be evaluated annually to determine if concentrations are representative of natural, locally elevated arsenic concentrations in soil and groundwater or represent a release from a regulated CCR unit.

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It is well documented¹ that naturally-occurring arsenic can be present in soil and groundwater at elevated concentrations in basin-fill sediments and aquifers throughout the Basin and Range Physiographic Province of the western United States (including Lake Bonneville sediments similar to those underlying the IGF), attributable to volcanic rock source material and lacustrine and hot spring deposits. For reference, the IGF is located within a few miles of large volcanic topographic features, including Baker Hot Springs and the adjacent 9-mile by 6-mile Fumarole Butte/Crater Bench. Numerous United States Geological Survey (USGS) studies report that arsenic concentrations in drinking-water wells located within western U.S. basin-fill aquifers exceed the national arsenic MCL more than twice as frequently as in drinking-water wells nationwide.

Numerous additional publications² report that arsenic concentrations have been elevated in private wells located throughout Millard County, Utah, including areas north of Delta, Utah and in the vicinity of the IGF. In Millard County, weathering of volcanic rocks is the major source of arsenic in groundwater (Lewis 1998, Welch 1988). Studies by the US EPA (Southwick 1982, Lewis 1999) and the USGS (2009) have found high arsenic concentrations in groundwater throughout the vicinity of Delta, Utah.

Currently, and for the foreseeable future, the CCR constituent plumes downgradient of the two surface impoundments do not pose any unmitigated risk to human health, ecologic receptors, and/or the environment. As additional groundwater quality data is generated, CCR constituent concentrations will be evaluated through statistical analysis, in accordance with the CCR Rule. Ongoing/future water quality data will be evaluated to determine whether additional monitoring and/or recovery wells might be warranted for appropriate CCR constituent-impacted groundwater control and remediation. If needed in the future, IPSC is prepared to add supplemental groundwater recovery and/or monitoring wells, if and where deemed warranted for ongoing protection to human health and the environment.

¹ Utah Department of Health Consultation: "Arsenic Exposure in Culinary Drinking Water Millard County, Utah"; 2009.

USGS Scientific Investigations Report 2012-5065: "Predicted Nitrate and Arsenic Concentrations in Basin-fill Aquifers of the Southwestern United States"; D.W. Anning et al, 2012.

USGS Circular 1360: "Water Quality in Principal Aquifers of the United States, 1991–2010"; Leslie A. DeSimone et al, 2010.

USGS Circular 1358: "Water Quality in Basin-Fill Aquifers of the Southwestern United States: Arizona, California, Colorado, Nevada, New Mexico, and Utah, 1993–2009"; Susan A. Thiros et al, 2009.

² U.S. Environmental Protection Agency "Community Health Associated with Arsenic in Drinking Water in Millard County, Utah." EPA-600/SI -81-064; Southwick, JW et al. 1982.

Lewis, DR, et al, "Drinking Water Arsenic in Utah: a Cohort Mortality Study." Environmental Health Perspectives, 1999.

Lewis, D.R., "The Feasibility of Epidemiologic Studies of Waterborne Arsenic: A Mortality Study in Millard County, Utah." Journal of Environmental Health, 1998.

USGS Scientific Investigations Report 2007-5213: "Summary of Selected US. Geological Survey Data on Domestic Well Water Quality for the Centers for Disease Control's National Environmental Public Health Tracking Program"; Bartholomay Roy C., et al, 2009.

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ONGOING CORRECTIVE ACTIONS AND GROUNDWATER CORRECTIVE ACTION REMEDY
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3.0 ONGOING CORRECTIVE ACTIONS AND GROUNDWATER CORRECTIVE ACTION REMEDY

3.1 ONGOING GROUNDWATER RECOVERY AND REMOVAL OF TDS MASS

IPSC intends to continue operation of the following strategically-located, groundwater recovery wells:

Bottom Ash Basin Plume Control:

- wells: WR-101, WR-102, WR-103, RW-9, BAC-11, BAC-13, BAC-14, BAC-29, BAC-30, and BAC-31.

Waste Water Basin Plume Control:

- wells: RW-4, WWC-1, WWC-4, WWC-5, WWC-6, WWC-8, WWC-12, WWC-13, WWC-14, WWC-15, WWC-16, and WWC-17.

Select wells are recovering TDS-impacted groundwater in close proximity to apparent source areas of TDS near each respective basin. Continued removal of TDS-impacted groundwater from each of these wells is helping reduce the total mass of CCR constituents in the uppermost aquifer beneath areas of the site located downgradient of, and in close proximity to, each of the two basins. Other recovery wells are removing TDS-impacted groundwater from generalized middle areas within each respective TDS plume, as well as in the vicinity of the downgradient, leading edge of each TDS plume.

Final selection and design of the expanded groundwater corrective action remedy was documented in IPSC/Stantec's June 2021 *Selection of Remedy Report*. The report provided detailed analysis of the extent and nature of impacted groundwater associated with the surface impoundments, a summary of corrective measures assessment, and evaluation of the selected remedy in terms of short- and long-term effectiveness and appropriate protection to human health and the environment.

Groundwater quality data to date, including the 2024 results, indicate that TDS has migrated farther down-gradient of the two surface impoundments than other CCR constituents, including Appendix IV metals. As discussed in detail in IPSC's November 2020 *Demonstration of Requirements for Alternative Closure Deadline under 40 C.F.R. §257.103(f)(2) Report* and IPSC's November 2020 *Amended Assessment of Corrective Measures* report, IPSC and Stantec anticipate that recovery of TDS-impacted groundwater at select recovery wells will also intercept metal constituents that might be present, as TDS is expected to continue to migrate at a faster rate than dissolved metals in the clay-rich aquifer that underlies the property.

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As detailed in IPSC's *Selection of Remedy Report*, Stantec provided engineering and design services to IPSC for enhanced TDS plume control and associated groundwater recovery. Design elements included, for instance:

- Final basis of design;
- Process flow diagram supported by a hydraulic pumping and conveyance model;
- Piping and instrumentation (P&ID) drawings;
- Typical recovery well completion detail.
- Finalized hydraulic model of the pumping and conveyance system;
- Typical design details for the recovery wells and surface completions;
- Underground yard piping;
- Control philosophy for the system;
- Electrical single-line and termination drawings; and
- Equipment and construction specifications.

As specified in IPSC's *Selection of Remedy Report*, during 2022 and 2023 IPSC purchased and installed equipment, supplemental electrical capacity, and related infrastructure needed for the expansion of the groundwater remediation network at the IGF, including for instance:

- down-well submersible groundwater recovery pumps and water level controls,
- access for ongoing groundwater sampling and monitoring capabilities,
- protective wellhouses atop each recovery wellhead,
- below-grade, recovered groundwater conveyance piping and systems,
- supplemental electricity and telemetry capacity extended to each new recovery wellhouse, and
- other necessary equipment and appurtenances associated with the expanded groundwater recovery network.

TDS concentrations and Stantec's groundwater flow and transport model were used to help identify which area-specific wells are used for groundwater recovery and TDS plume control purposes downgradient of both the Bottom Ash Basin and the Wastewater Basin. If needed in the future, IPSC is prepared to add supplemental groundwater recovery and/or monitoring wells, if and where deemed warranted for ongoing protection to human health and the environment.

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

ONGOING CORRECTIVE ACTIONS AND GROUNDWATER CORRECTIVE ACTION REMEDY

January 16, 2025

As of June 2023, IPSC initiated groundwater recovery at the following wells, based on analysis of historical water quality data observed and statistically analyzed through the Fall 2022 sampling event:

Bottom Ash Basin Plume Control:

- wells: RW-9, BAC-13, BAC-14, BAC-29, BAC-30, and BAC-31 (in addition to wells WR-101, WR-102, WR-103). Subsequently in 2024, well BAC-11 was also added as a groundwater recovery well.

Waste Water Basin Plume Control:

- wells: WWC-1, WWC-4, WWC-5, RW-4, WWC-6, WWC-8, WWC-12, WWC-13, WWC-14, and WWC-15. Subsequently in 2024, wells WWC-16 and WWC-17 were also added as groundwater recovery wells.

Groundwater recovered from wells WR-101, WR-102, and WR-103 is transported via buried water conveyance piping to a trunkline that discharges to the 80-mil, HDPE-lined Ash Recycle Basin located immediately south of the Bottom Ash Basin. As detailed in IPSC's Groundwater Discharge Permit and identified on Figures 3, 4, and 5, IPSC recently constructed seven new evaporation basins immediately west of the existing Evaporation Ponds. Aside from the three 'WR' recovery wells, all other groundwater recovery wells discharge recovered groundwater to the new evaporation ponds. During 2025, IPSC intends to construct new piping to re-direct groundwater recovered at the three 'WR' wells for discharge to the new evaporation ponds, as well.

3.1.1 Evaluation of Effectiveness of the Current, Existing Groundwater Recovery Program

Figures 3A/B and 4A/B herein present Stantec's modeling of inferred groundwater potentiometric surfaces beneath the IGF. Groundwater flows from higher potentiometric elevations toward lower elevations and the inferred flow direction is perpendicular to the potentiometric lines presented on the figures. As the potentiometric maps indicate, and which has been consistent since monitoring at the site began in the 1980s, the predominant flow direction of groundwater beneath much of the IGF is generally toward the southwest, with localized areas of more westerly flow.

As the 2024 water level data indicate, localized potentiometric elevations appear to be influenced by removal of groundwater from recovery wells. Static water levels within and in the vicinity of recovery wells are lower in mean sea level elevation than would be expected, if there were no groundwater pumping and removal from the subsurface. Typically, and as expected, the greatest declines in water table elevations are at the individual recovery wells, with varying degrees of radial influence extending in 360-degree directions around each recovery well. As groundwater is pumped and removed from the subsurface at each recovery well, the surrounding potentiometric surface of the water table declines in elevation in response to the reduced hydrostatic pressure attributable to the pumping well.

The radial extent to which groundwater is recovered/captured around individual recovery wells is influenced by well-specific pumping rate and area-specific aquifer hydrogeologic characteristics. As

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ONGOING CORRECTIVE ACTIONS AND GROUNDWATER CORRECTIVE ACTION REMEDY

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detailed in IPSC's June 2021 *Selection of Remedy Report*, groundwater recovery rates (yields and specific capacities) vary between the different pumping, recovery wells (generally between five to 15 gallons per minute-gpm) due to the heterogenous nature of the lithologic and hydraulic characteristics underlying the IGF (highly-varied, interspersed clays, silts, and sands of varying thicknesses and interstitial clay matrices, etc.). Thus, the radial influence of groundwater recovery and induced depression in the potentiometric surface associated with each recovery well varies from well to well.

Current pumping rates at most of the recovery wells vary between five to 15 gpm. Review of the 2024 potentiometric data presented on Figures 3, 4, and 5 indicates significant groundwater recovery and induced depressions in the potentiometric surface in the vicinity of the downgradient leading edges of the TDS plumes located southwest of the two surface impoundments (well clusters BAC-29, BAC-30, and BAC-31, as well as WWC-6, WWC-12, WWC-13, WWC-14, and WWC-15) in the vicinity of the clustered recovery wells.

3.1.2 Proposed Expansion of Groundwater Recovery Network

Monitoring well WWC-9 only recently exhibited TDS concentrations at or in excess of IPSC's Groundwater Protection Level of 1,100 ppm. IPSC intends to prepare for use of well WWC-9 as a recovery well, as soon as practicable.

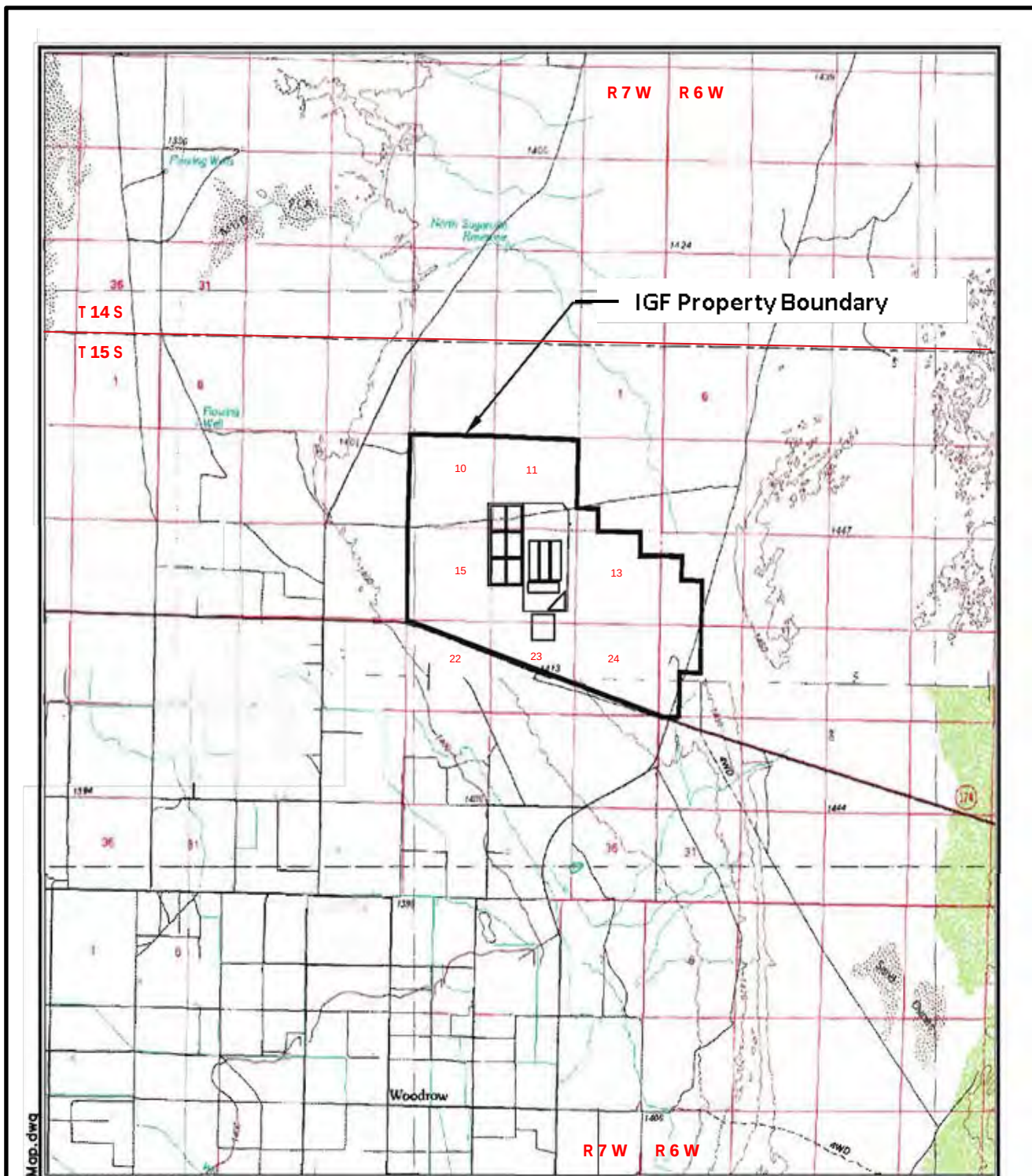
If needed in the future for plume monitoring and/or control, IPSC is prepared to add supplemental groundwater monitoring and/or recovery wells, if and where deemed warranted for ongoing protection to human health and the environment. Ongoing review of groundwater quality and hydraulic data will be used to help investigate the need for any such supplemental monitoring and/or remedial measures.

As detailed in IPSC's November 2020 *Demonstration of Requirements for Alternative Closure Deadline under 40 C.F.R. §257.103(f)(2) Report*, and as is currently believed, the CCR constituent plumes pose no unmitigated risk to on- and off-site human health. Given the vast real property acreage (4,614-acres) that is owned by the owner of the IGF, Intermountain Power Agency (IPA), as well as the relatively significant distances to off-site potential receptors who might use groundwater for potable and/or non-potable uses (approximately 2.5-miles away), IPSC anticipates that it can implement supplemental plume control measures so as to mitigate any such future potential exposures in a prompt and timely manner.

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

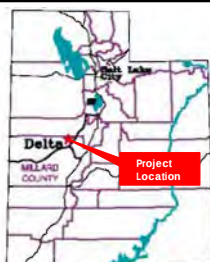
January 16, 2025

Figure 1 Site Topographic Map



SCALE

Each Township and Range **Section** is One-Square Mile



INTERMOUNTAIN POWER SERVICE CORP.
INTERMOUNTAIN GENERATION FACILITY
DELTA, UTAH

FIGURE 1
Site Location Map



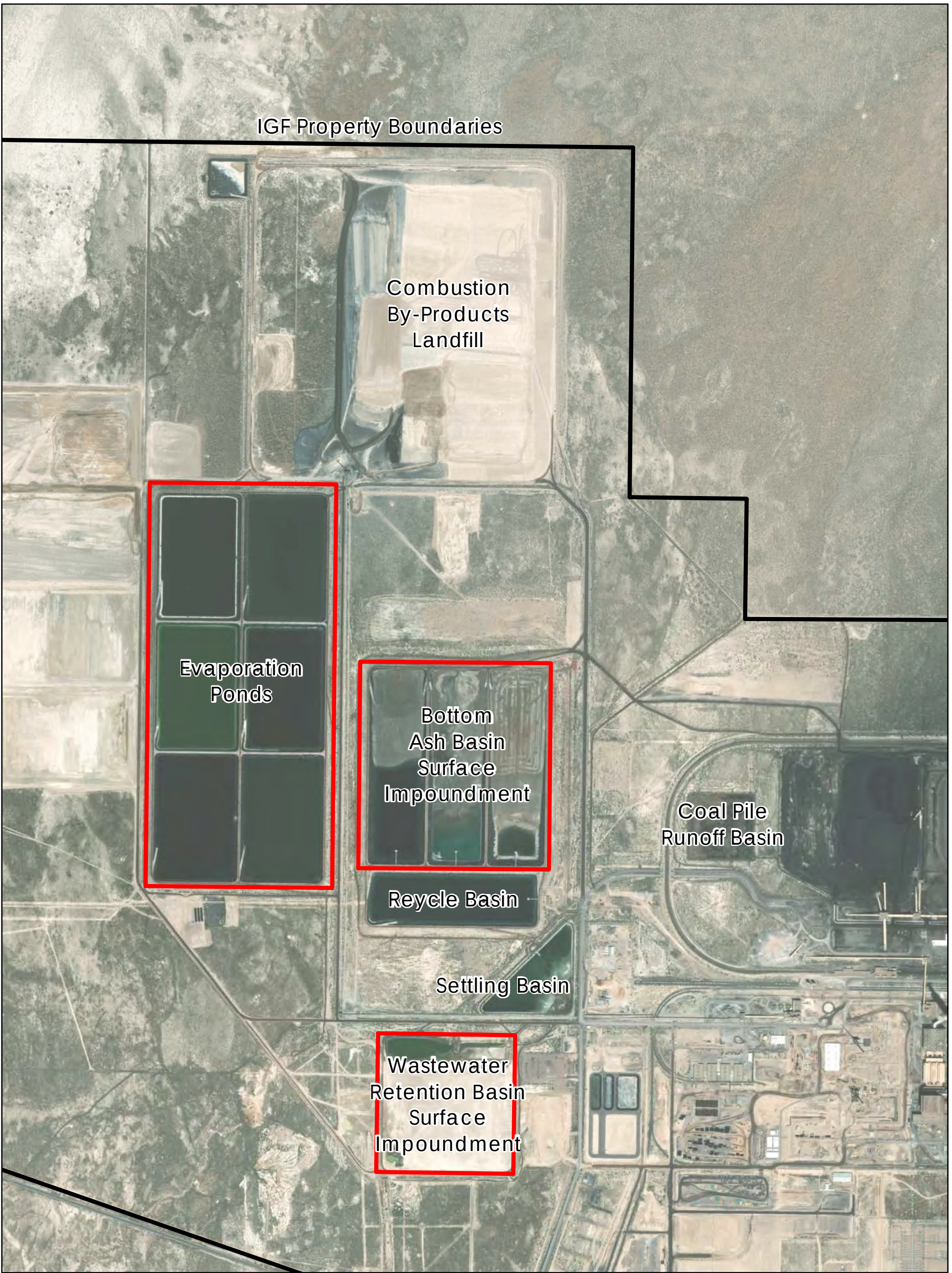
DRAWN BY	JR	DATE	3/3/2023
SCALE	1 in. approx. two miles		
PROJECT	203709098		

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

January 16, 2025

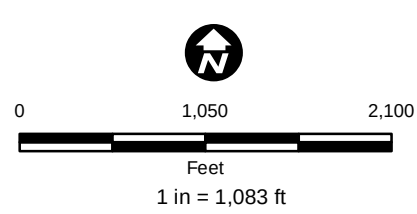
Figure 2. Site-Specific Location Map

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LEGEND:

- Groundwater Discharge Permitted Facilities:**
- Evaporation Ponds
 - Bottom Ash Basin Surface Impoundment
 - Wastewater Retention Basin Surface Impoundment
 - Recycling Basin
 - Settling Basin
 - Coal Pile Runoff Basin



	FOR: INTERMOUNTAIN POWER SERVICE CORP. INTERMOUNTAIN GENERATION FACILITY DELTA, UTAH		GROUNDWATER DISCHARGE PERMITTED FACILITIES LOCATION MAP		FIGURE: 2
	JOB NUMBER: 203709098	DRAWN BY: BRM	CHECKED BY:	APPROVED BY:	DATE: 12/31/24

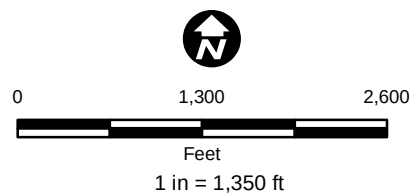
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

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**Figures 3A and 3B. Spring and Fall 2024 Groundwater Potentiometric and Flow Maps,
Two Feet Contours**

	MONITORING WELL
	MONITORING WELL (NOT USED FOR CONTOURING)
	EXTRACTION WELL (PUMPING DURING GAUGING EVENT, NOT USED FOR CONTOURING)
4577.22	GROUNDWATER ELEVATION (FT AMSL)
	INFERRED GROUNDWATER CONTOUR (FT AMSL)

- 1) WATER LEVEL DATA COLLECTED SPRING 2024
- 2) ALL ELEVATIONS ARE FEET ABOVE MEAN SEA LEVEL (FT AMSL)
- 3) NM = NOT MEASURED THIS EVENT
- 4) CONTOURS WERE INFERRED USING LOG-LINEAR KRIGING PER METHODOLOGY DESCRIBED IN TONKIN AND LARSON, 2002.



FOR:

INTERMOUNTAIN POWER SERVICE CORP.
INTERMOUNTAIN GENERATION FACILITY
DELTA, UTAH

JOB NUMBER:
203709098

DRAWN BY: BRM

**TWO-FOOT CONTOURS
SPRING 2024
POTENTIOMETRIC MAP AND
GROUNDWATER FLOW MAP**

CHECKED BY:

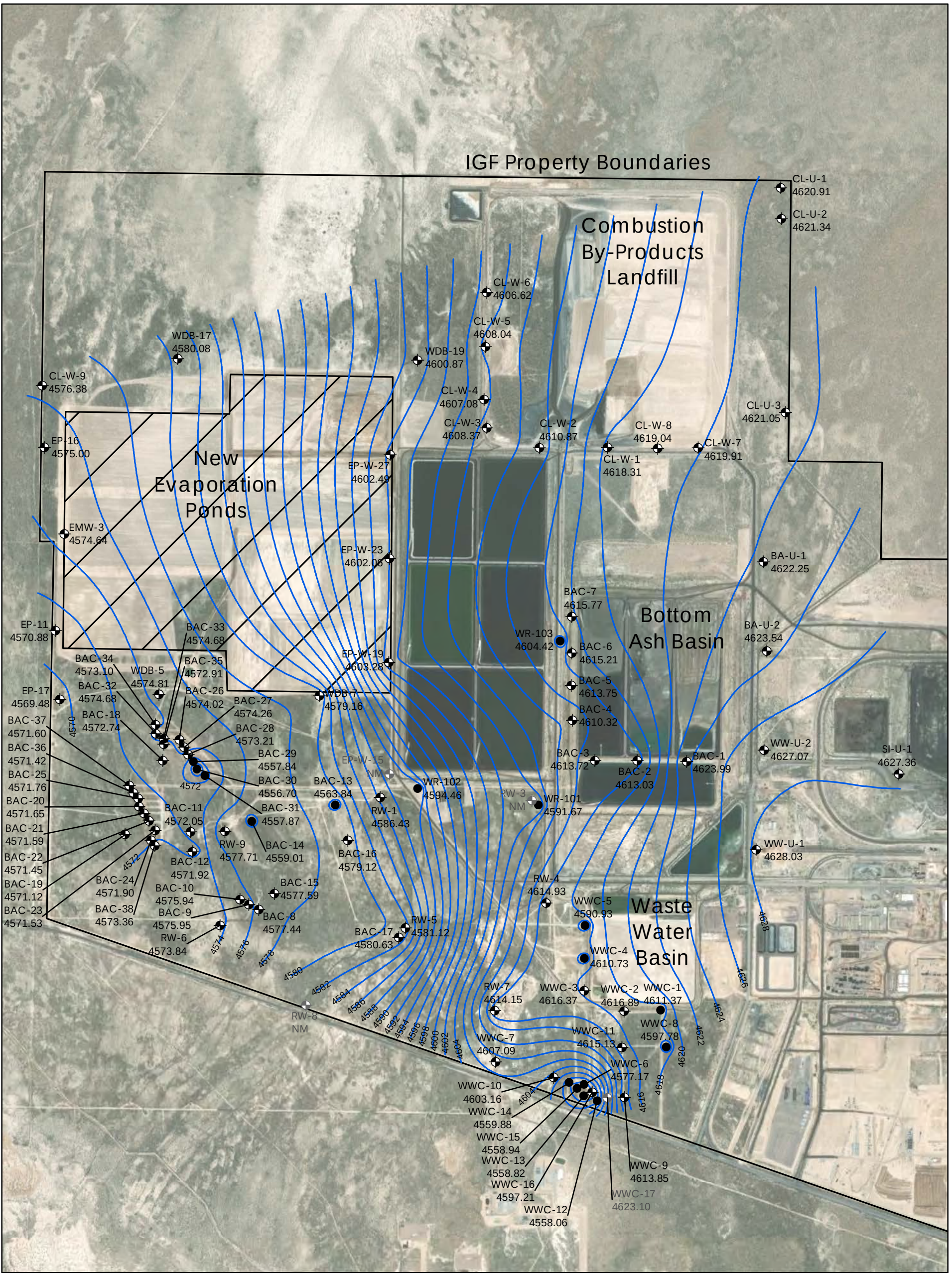
APPROVED BY:

FIGURE:

3A

DATE: 12/19/24

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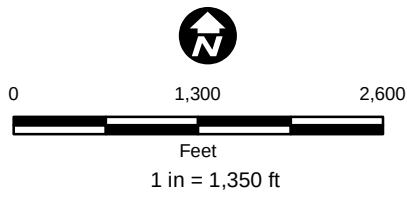


LEGEND:

- MONITORING WELL
- MONITORING WELL (NOT USED FOR CONTOURING)
- EXTRACTION WELL (PUMPING DURING GAUGING EVENT, NOT USED FOR CONTOURING)
- GROUNDWATER ELEVATION (FT AMSL)
- INFERRED GROUNDWATER CONTOUR (FT AMSL)

NOTES:

- 1) WATER LEVEL DATA COLLECTED FALL 2024
- 2) ALL ELEVATIONS ARE FEET ABOVE MEAN SEA LEVEL (FT AMSL)
- 3) NM = NOT MEASURED THIS EVENT
- 4) CONTOURS WERE INFERRED USING LOG-LINEAR KRIGING PER METHODOLOGY DESCRIBED IN TONKIN AND LARSON, 2002.



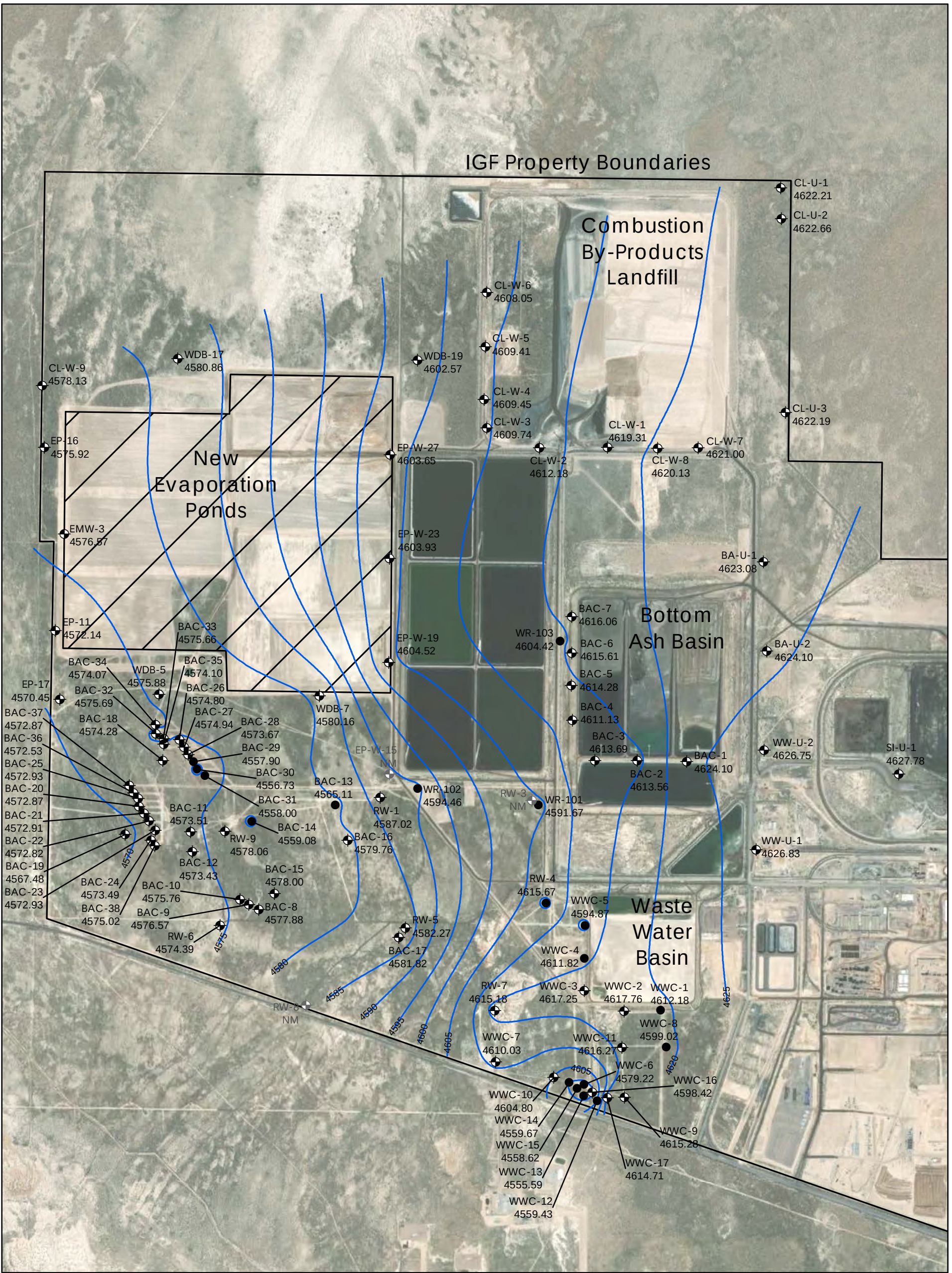
	FOR: INTERMOUNTAIN POWER SERVICE CORP. INTERMOUNTAIN GENERATION FACILITY DELTA, UTAH		TWO-FEET CONTOURS FALL 2024 POTENTIOMETRIC MAP AND GROUNDWATER FLOW MAP		FIGURE: 3B
	JOB NUMBER: 203709098	DRAWN BY: BRM	CHECKED BY:	APPROVED BY:	DATE: 12/19/24

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

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**Figures 4A and 4B. Spring and Fall 2024 Groundwater Potentiometric and Flow Maps,
Five Feet Contours**

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LEGEND:

- MONITORING WELL
- MONITORING WELL (NOT USED FOR CONTOURING)
- EXTRACTION WELL (PUMPING DURING GAUGING EVENT, NOT USED FOR CONTOURING)
- GROUNDWATER ELEVATION (FT AMSL)
- INFERRED GROUNDWATER CONTOUR (FT AMSL)

NOTES:

- 1) WATER LEVEL DATA COLLECTED SPRING 2024
- 2) ALL ELEVATIONS ARE FEET ABOVE MEAN SEA LEVEL (FT AMSL)
- 3) NM = NOT MEASURED THIS EVENT
- 4) CONTOURS WERE INFERRED USING LOG-LINEAR KRIGING PER METHODOLOGY DESCRIBED IN TONKIN AND LARSON, 2002.


0 1,300 2,600
Feet
1 in = 1,350 ft



FOR:
INTERMOUNTAIN POWER SERVICE CORP.
INTERMOUNTAIN GENERATION FACILITY
DELTA, UTAH

JOB NUMBER:
203709098

DRAWN BY:
BRM

CHECKED BY:

APPROVED BY:

DATE:
12/19/24

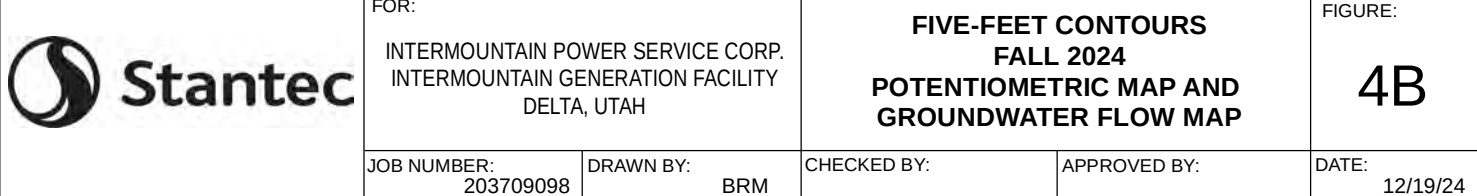
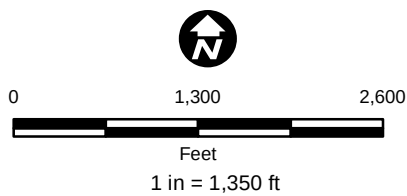
FIVE-FEET CONTOURS
SPRING 2024
POTENTIOMETRIC MAP AND
GROUNDWATER FLOW MAP

FIGURE:
4A

	MONITORING WELL
	MONITORING WELL (NOT USED FOR CONTOURING)
	EXTRACTION WELL (PUMPING DURING GAUGING EVENT, NOT USED FOR CONTOURING)
4577.22	GROUNDWATER ELEVATION (FT AMSL)
	INFERRED GROUNDWATER CONTOUR (FT AMSL)

NOTES:

- 1) WATER LEVEL DATA COLLECTED FALL 2024
- 2) ALL ELEVATIONS ARE FEET ABOVE MEAN SEA LEVEL (FT AMSL)
- 3) NM = NOT MEASURED THIS EVENT
- 4) CONTOURS WERE INFERRED USING LOG-LINEAR KRIGING PER METHODOLOGY DESCRIBED IN TONKIN AND LARSON, 2002.

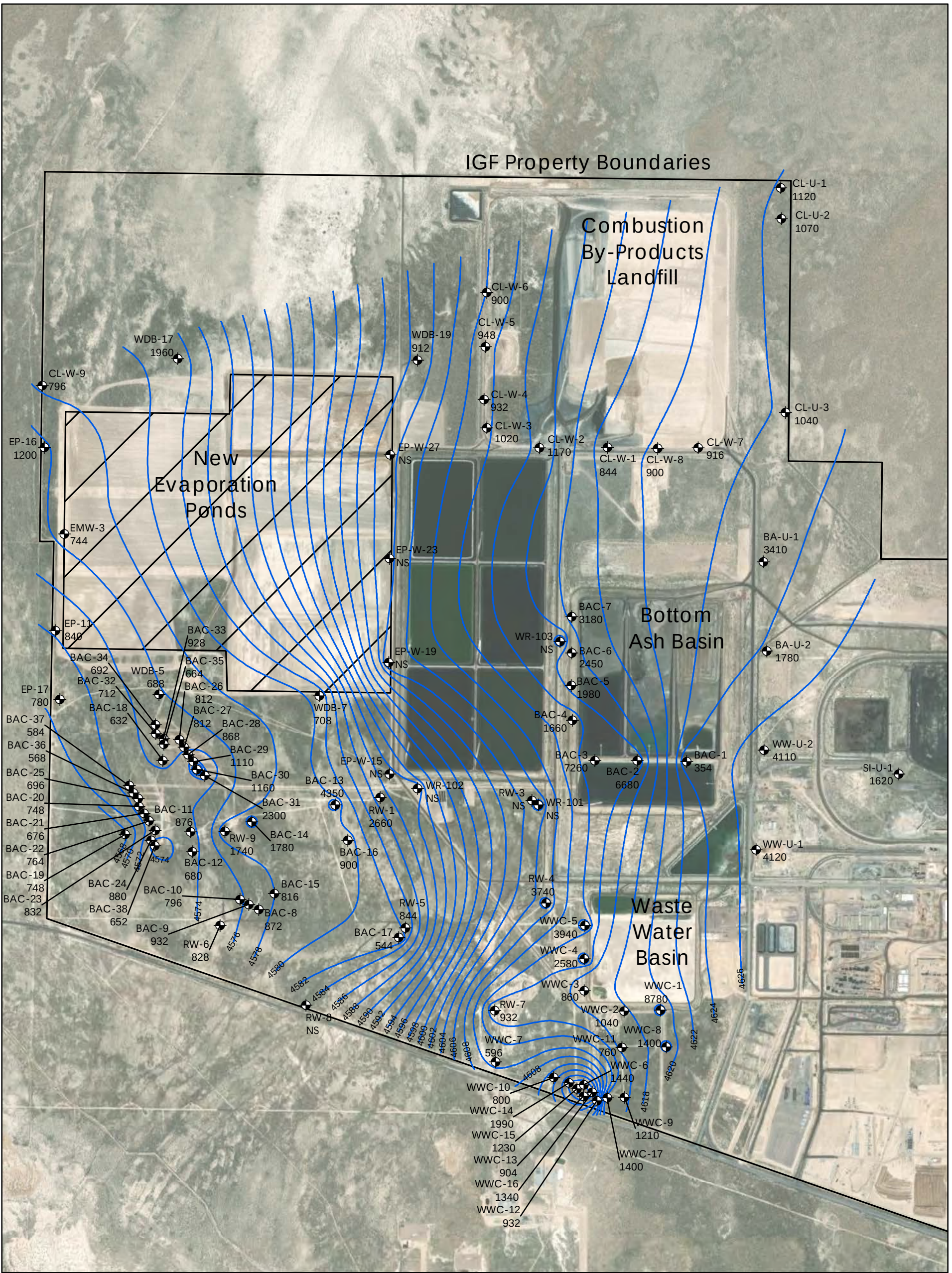


2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

January 16, 2025

Figures 5A and 5B. Spring and Fall 2024 Total Dissolved Solids (TDS) Concentrations Maps

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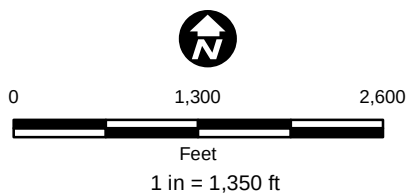


LEGEND:

-  MONITORING WELL
- 780 TDS CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)
-  INFERRED GROUNDWATER CONTOUR (FT AMSL)

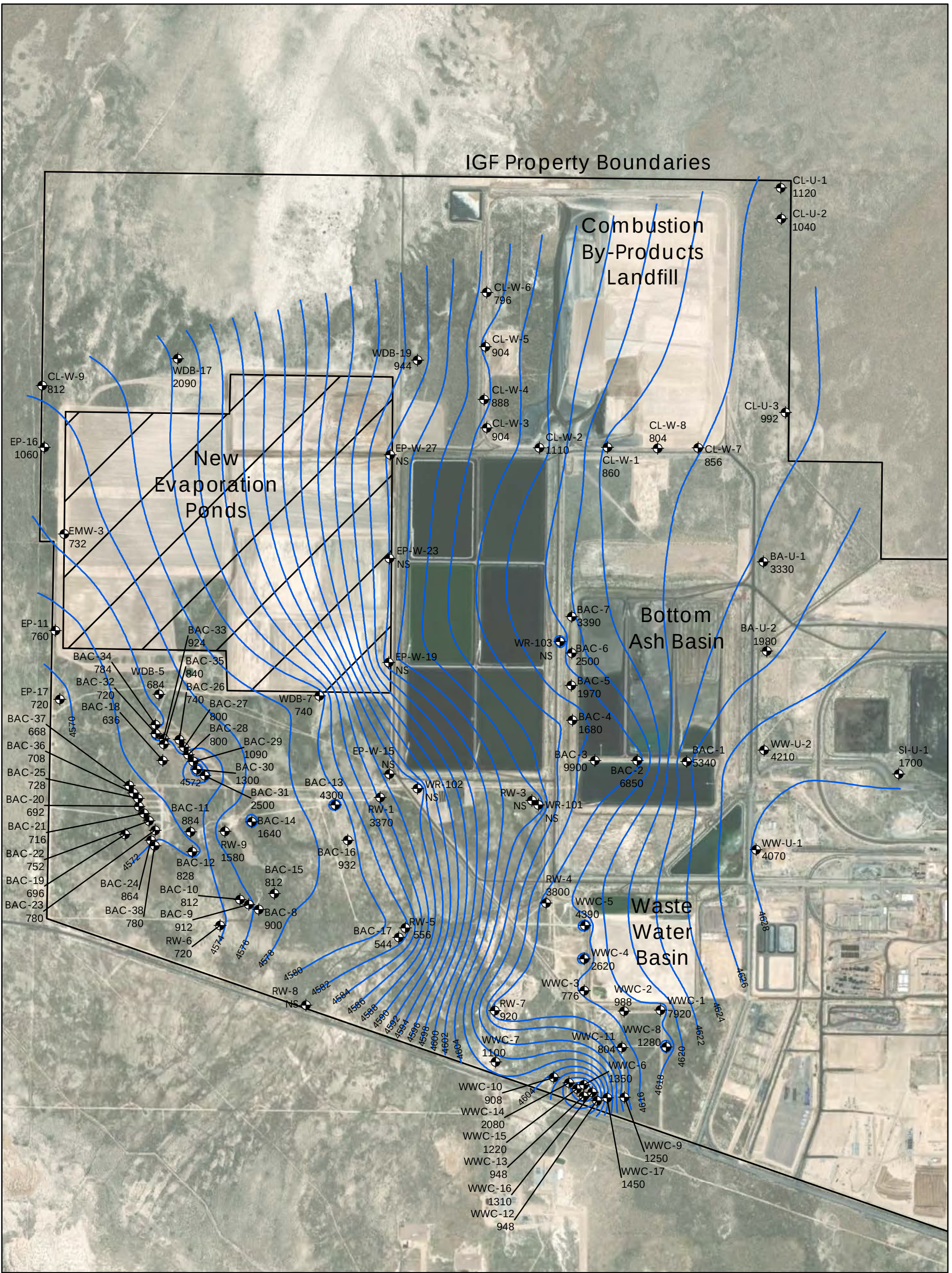
NOTES:

- 1) WATER LEVEL AND TDS DATA COLLECTED SPRING 2024
- 2) ALL ELEVATIONS ARE FEET ABOVE MEAN SEA LEVEL (FT AMSL)
- 3) NM = NOT SAMPLED THIS EVENT



	FOR: INTERMOUNTAIN POWER SERVICE CORP. INTERMOUNTAIN GENERATION FACILITY DELTA, UTAH		TDS ISO-CONCENTRATION MAP SPRING 2024 SUPERIMPOSED ATOP 2-FT POTENTIOMETRIC MAP AND GROUNDWATER FLOW MAP		FIGURE: 5A
	JOB NUMBER: 203709098	DRAWN BY: BRM	CHECKED BY:	APPROVED BY:	DATE: 12/31/24

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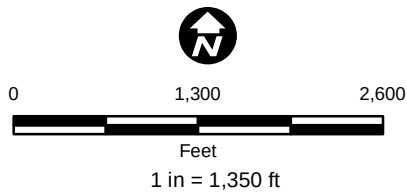


LEGEND:

-  MONITORING WELL
- 780 TDS CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)
-  INFERRED GROUNDWATER CONTOUR (FT AMSL)

NOTES:

- 1) WATER LEVEL AND TDS DATA COLLECTED FALL 2024
- 2) ALL ELEVATIONS ARE FEET ABOVE MEAN SEA LEVEL (FT AMSL)
- 3) NM = NOT SAMPLED THIS EVENT



		FOR: INTERMOUNTAIN POWER SERVICE CORP. INTERMOUNTAIN GENERATION FACILITY DELTA, UTAH		TDS ISO-CONCENTRATION MAP FALL 2024 SUPERIMPOSED ATOP 2-FT POTENTIOMETRIC MAP AND GROUNDWATER FLOW MAP		FIGURE: 5B
JOB NUMBER: 203709098		DRAWN BY: BRM		CHECKED BY:	APPROVED BY:	DATE: 12/31/24

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

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TABLE 1 GROUNDWATER MONITORING WELL CONSTRUCTION DETAILS

Table 1
Well Construction Summary
Intermountain Generating Facility
Delta, Utah

MONITOR WELL I.D.	DATE COMPLETED	WELL DIAMETER / MATERIAL	TOTAL DEPTH (feet BGS)	WELL SCREENING INTERVAL (feet BGS)	TOP OF PVC CASING ELEVATION (feet MSL)
Combustion By-Products Landfill Wells					
CLW-1	5/12/2015	4-inch PVC	65	55-65	4653.46
CLW-2	5/14/2015	4-inch PVC	80	70-80	4648.17
CLW-3	5/13/2015	4-inch PVC	80	70-80	4644.03
CLW-4	5/26/2015	4-inch PVC	82	72-82	4642.88
CLW-5	7/27/2015	4-inch PVC	82	72-82	4640.99
CLW-6	7/26/2015	4-inch PVC	88	78-88	4639.63
CLW-7	7/24/2015	4-inch PVC	72	52-72	4659.34
CLW-8	7/24/2015	4-inch PVC	72	62-72	4655.63
CLW-9	3/25/2018	4-inch PVC	97	87-97	4615.615
CL-U-1	7/23/2015	4-inch PVC	80	68-78	4657.48
CL-U-2	7/22/2015	4-inch PVC	80	70-80	4663.48
CL-U-3	3/27/2018	4-inch PVC	77	67-77	4665.367
Bottom Ash Basin Wells					
BAC-1	7/31/2015	4-inch PVC	70	60-70	4668.70
BAC-2	7/29/2015	4-inch PVC	65	55-65	4668.72
BAC-3	7/28/2015	4-inch PVC	72	52-72	4668.84
BAC-4	8/10/2015	4-inch PVC	75	55-75	4649.45
BAC-5	8/9/2015	4-inch PVC	68	58-68	4649.67
BAC-6	8/8/2015	4-inch PVC	65	55-65	4648.15
BAC-7	8/7/2015	4-inch PVC	67	57-68	4650.09
BAC-8	4/29/2019	6-inch PVC	77	52-77	4626.42
BAC-9	5/1/2019	6-inch PVC	77	52-77	4626.27
BAC-10	5/3/2019	6-inch PVC	87	62-87	4626.27
BAC-11	12/7/2019	6-inch PVC	75	50-75	4624.96
BAC-12	12/6/2019	6-inch PVC	78	53-78	4625.055
BAC-13	11/18/2019	6-inch PVC	90	65-90	4629.834
BAC-14	12/4/2019	6-inch PVC	78	53-78	4627.506
BAC-15	12/9/2019	6-inch PVC	75	50-75	4626.494
BAC-16	11/21/2019	6-inch PVC	89	64-89	4630.426

Table 1
Well Construction Summary
Intermountain Generating Facility
Delta, Utah

MONITOR WELL I.D.	DATE COMPLETED	WELL DIAMETER / MATERIAL	TOTAL DEPTH (feet BGS)	WELL SCREENING INTERVAL (feet BGS)	TOP OF PVC CASING ELEVATION (feet MSL)
BAC-17	12/10/2019	6-inch PVC	81	56-81	4629.648
BAC-18	5/8/2020	6-inch PVC	78	53-78	4621.504
BAC-19	5/9/2020	6-inch PVC	78	58-78	4615.62
BAC-20	5/9/202	6-inch PVC	78	53-78	4617.848
BAC-21	5/10/2020	6-inch PVC	88	61-88	4619.625
BAC-22	5/10/2020	6-inch PVC	78	53-78	4619.905
BAC-23	5/11/2020	6-inch PVC	78	53-78	4619.582
BAC-24	5/12/2020	6-inch PVC	76	51-76	4619.207
BAC-25	5/12/2020	6-inch PVC	78	53-78	4619.327
BAC-26	5/13/2020	6-inch PVC	78	53-78	4627.704
BAC-27	5/13/2020	6-inch PVC	78	53-78	4627.355
BAC-28	5/14/2020	6-inch PVC	78	53-78	4625.411
BAC-29	5/15/2020	6-inch PVC	78	53-78	4625.29
BAC-30	5/142020	6-inch PVC	78	53-78	4624.88
BAC-31	5/15/2020	6-inch PVC	78	53-78	4625.024
BAC-32	5/192020	6-inch PVC	78	53-78	4626.583
BAC-33	5/18/2020	6-inch PVC	78	53-78	4626.629
BAC-34	5/21/2020	6-inch PVC	78	53-78	4624.702
BAC-35	5/282020	6-inch PVC	78	53-78	4624.805
BAC-36	5/30/2020	6-inch PVC	78	53-78	4619.231
BAC-37	5/29/2020	6-inch PVC	78	53-78	4618.397
BAC-38	5/31/2020	6-inch PVC	78	53-78	4619.593
BA-U-1	7/24/2015	4-inch PVC	55	45-55	4665.73
BA-U-2	7/25/2015	4-inch PVC	70	60-70	4661.33

Table 1
Well Construction Summary
Intermountain Generating Facility
Delta, Utah

MONITOR WELL I.D.	DATE COMPLETED	WELL DIAMETER / MATERIAL	TOTAL DEPTH (feet BGS)	WELL SCREENING INTERVAL (feet BGS)	TOP OF PVC CASING ELEVATION (feet MSL)
Wastewater Basin Wells					
WWC-1	7/26/2015	4-inch PVC	60	48-58	4644.72
WWC-2	7/27/2015	4-inch PVC	70	60-70	4645.11
WWC-3	7/30/2015	4-inch PVC	65	55-65	4638.90
WWC-4	7/29/2015	4-inch PVC	75	65-75	4640.58
WWC-5	7/28/22015	4-inch PVC	74	64-74	4641.75
WWC-6	3/24/2018	4-inch PVC	87	67-77	4635.945
WWC-7	3/22/2018	4-inch PVC	87	77-87	4630.487
WWC-8	4/25/2019	6-inch PVC	96	71-96	4647.799
WWC-9	4/28/2019	6-inch PVC	87	62-87	4642.58
WWC-10	4/26/2019	6-inch PVC	87	62-87	4633.72
WWC-11	11/16/2019	6-inch PVC	90	65-90	4641.919
WWC-12	11/12/2019	6-inch PVC	90	65-90	4636.661
WWC-13	11/15/2019	6-inch PVC	90	65-90	4635.128
WWC-14	5/6/2020	6-inch PVC	85	60-85	4635.927
WWC-15	5/6/2020	6-inch PVC	88	63-88	4636.864
WWC-16	5/7/2020	6-inch PVC	88	63-88	4635.921
WWC-17	5/8/2020	6-inch PVC	88	63-88	4641.487
SI-U-1	8/12/2015	4-inch PVC	79	69-79	4664.59
WW-U-1	8/11/2015	4-inch PVC	70	60-70	4665.03
WW-U-2	8/11/2015	4-inch PVC	75	65-75	4665.46
Groundwater Discharge Permit Groundwater Recovery Wells					
WR-101	2/11/2007	6-inch PVC	66	46-66	4646.28
WR-102	3/3/2009	6-inch PVC	57	37-57	4637.62
WR-103	3/31/2009	6-inch PVC	55	35-55	4649.82

Below Ground Surface

MSL = Mean Sea Level

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

January 16, 2025

TABLE 2A

SUMMARY STATISTICS, BOTTOM ASH BASIN SURFACE IMPOUNDMENT, 2015 -2024

Table 2A
Summary Statistics - Bottom Ash Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Antimony	ba-u-1	(0/23)	(0.00002 - 0.01)	--	--	--	--	0.002	0.0094
Arsenic	ba-u-1	(20/23)	(0.005 - 0.01)	0.0163	0.0362	0.021	0.00793	0.0215	0.0355
Barium	ba-u-1	(23/23)	--	0.052	0.149	0.0779	0.0237	0.0745	0.129
Beryllium	ba-u-1	(0/23)	(0.00004 - 0.002)	--	--	--	--	0.002	0.002
Cadmium	ba-u-1	(0/23)	(0.00002 - 0.001)	--	--	--	--	5.00E-04	1.00E-03
Chromium	ba-u-1	(8/23)	(0.0002 - 0.002)	5.06E-04	0.0711	0.00408	0.0143	0.002	0.00313
Cobalt	ba-u-1	(3/23)	(0.0003 - 0.004)	0.0015	0.0016	1.04E-03	6.05E-04	0.004	0.004
Fluoride	ba-u-1	(23/23)	--	0.549	1.75	1	0.387	0.881	1.668
Lead	ba-u-1	(0/23)	(0.00004 - 0.01)	--	--	--	--	0.002	0.0095
Lithium	ba-u-1	(23/23)	--	0.191	0.773	0.374	0.137	0.368	0.663
Mercury	ba-u-1	(0/23)	(0.0000396 - 0.00015)	--	--	--	--	1.50E-04	1.50E-04
Molybdenum	ba-u-1	(20/23)	(0.001 - 0.002)	0.00219	0.0408	0.00788	0.0104	0.003	0.0339
Radium 226 + 228	ba-u-1	(23/23)	--	0.35	2.33	1.065	0.52	1.1	1.873
Selenium	ba-u-1	(16/23)	(0.002 - 0.01)	0.0022	0.02	0.00545	0.0048	0.00458	0.019
Thallium	ba-u-1	(0/23)	(0.00003 - 0.002)	--	--	--	--	0.002	0.002
Antimony	ba-u-2	(0/23)	(0.00002 - 0.01)	--	--	--	--	0.002	0.0094
Arsenic	ba-u-2	(18/23)	(0.002 - 0.01)	0.00225	0.0283	0.0151	0.00921	0.0206	0.0248
Barium	ba-u-2	(23/23)	--	0.0728	0.175	0.132	0.0249	0.134	0.166
Beryllium	ba-u-2	(0/23)	(0.00004 - 0.002)	--	--	--	--	0.002	0.002
Cadmium	ba-u-2	(0/23)	(0.00002 - 0.001)	--	--	--	--	5.00E-04	1.00E-03
Chromium	ba-u-2	(9/23)	(0.0007 - 0.002)	0.002	0.0125	0.00272	0.00342	0.002	0.00997
Cobalt	ba-u-2	(0/23)	(0.00003 - 0.004)	--	--	--	--	0.004	0.004
Fluoride	ba-u-2	(23/23)	--	0.532	1.02	0.821	0.134	0.844	0.991
Lead	ba-u-2	(0/23)	(0.00004 - 0.01)	--	--	--	--	0.002	0.0095
Lithium	ba-u-2	(23/23)	--	0.209	0.514	0.296	0.0635	0.3	0.339
Mercury	ba-u-2	(0/23)	(0.0000396 - 0.00015)	--	--	--	--	1.50E-04	1.50E-04
Molybdenum	ba-u-2	(17/23)	(0.000884 - 0.002)	0.0015	0.016	0.0046	0.00447	0.00294	0.0144
Radium 226 + 228	ba-u-2	(23/23)	--	0.29	2.42	1.068	0.493	0.99	1.738
Selenium	ba-u-2	(9/23)	(0.001 - 0.01)	6.91E-04	0.0047	0.00161	1.26E-03	0.002	0.0095
Thallium	ba-u-2	(0/23)	(0.00003 - 0.002)	--	--	--	--	0.002	0.002
Antimony	bac-1	(5/23)	(0.000734 - 0.02)	0.0006	0.00258	0.00101	7.23E-04	0.002	0.0098
Arsenic	bac-1	(19/23)	(0.005 - 0.02)	0.0103	0.0202	0.0139	0.00425	0.0146	0.02
Barium	bac-1	(23/23)	--	0.031	0.702	0.11	0.155	0.052	0.379
Beryllium	bac-1	(0/23)	(0.00007 - 0.002)	--	--	--	--	0.002	0.002
Cadmium	bac-1	(0/23)	(0.00003 - 0.002)	--	--	--	--	5.00E-04	0.001
Chromium	bac-1	(18/23)	(0.0002 - 0.002)	0.00163	0.114	0.011	0.0236	0.00365	0.0389
Cobalt	bac-1	(3/23)	(0.0003 - 0.006)	0.0013	0.00605	1.06E-03	0.00143	0.004	0.0059
Fluoride	bac-1	(21/23)	(0.1 - 0.1)	0.197	0.928	0.486	0.222	0.476	0.849

Table 2A
Summary Statistics - Bottom Ash Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Lead	bac-1	(1/23)	(0.000588 - 0.01)	0.0007	0.0007	0.00062533	0.000052797	0.002	0.01
Lithium	bac-1	(23/23)	--	0.172	1.52	0.594	0.36	0.52	1.408
Mercury	bac-1	(0/23)	(0.0000396 - 0.00015)	--	--	--	--	1.50E-04	1.50E-04
Molybdenum	bac-1	(22/23)	(0.001 - 0.001)	0.011	0.143	0.0518	0.0416	0.0391	0.141
Radium 226 + 228	bac-1	(23/23)	--	0.14	4.1	1.51	0.888	1.3	2.596
Selenium	bac-1	(20/23)	(0.01 - 0.03)	0.00274	0.0204	0.0109	0.00524	0.0093	0.0204
Thallium	bac-1	(0/23)	(0.00003 - 0.002)	--	--	--	--	0.002	0.002
Antimony	bac-2	(0/23)	(0.00004 - 0.09)	--	--	--	--	0.002	0.0458
Arsenic	bac-2	(19/23)	(0.005 - 0.12)	0.0386	0.0713	0.0457	0.0159	0.0469	0.0706
Barium	bac-2	(21/23)	(0.003 - 0.006)	0.018	0.0472	0.022	0.0086	0.022	0.0373
Beryllium	bac-2	(0/23)	(0.00007 - 0.005)	--	--	--	--	0.002	0.0029
Cadmium	bac-2	(0/23)	(0.00003 - 0.006)	--	--	--	--	5.00E-04	0.0056
Chromium	bac-2	(20/23)	(0.0004 - 0.01)	0.00483	0.0145	0.00701	0.00315	0.00721	0.0116
Cobalt	bac-2	(0/23)	(0.00005 - 0.02)	--	--	--	--	0.004	0.0186
Fluoride	bac-2	(21/23)	(0.1 - 0.1)	0.684	2.27	1.068	0.431	1.1	1.47
Lead	bac-2	(1/23)	(0.0001 - 0.06)	0.00221	0.00221	2.17E-04	4.83E-04	0.002	0.055
Lithium	bac-2	(23/23)	--	0.386	1.38	0.603	0.321	0.452	1.31
Mercury	bac-2	(5/23)	(0.0000396 - 0.00015)	1.12E-04	2.80E-04	7.90E-05	6.26E-05	1.50E-04	1.88E-04
Molybdenum	bac-2	(23/23)	--	0.08	0.194	0.154	0.0248	0.156	0.189
Radium 226 + 228	bac-2	(23/23)	--	0.25	2.9	1.155	0.629	1.15	1.98
Selenium	bac-2	(20/23)	(0.01 - 0.14)	0.012	0.02	0.0147	0.00239	0.0145	0.047
Thallium	bac-2	(0/23)	(0.00003 - 0.002)	--	--	--	--	0.002	0.002
Antimony	bac-3	(1/23)	(0.00004 - 0.09)	0.0027	0.0027	2.06E-04	6.44E-04	0.002	0.0454
Arsenic	bac-3	(20/23)	(0.005 - 0.12)	0.0158	0.0798	0.0364	0.0169	0.0398	0.0778
Barium	bac-3	(22/23)	(0.006 - 0.006)	0.025	0.0827	0.0353	0.0139	0.0317	0.0546
Beryllium	bac-3	(0/23)	(0.00007 - 0.005)	--	--	--	--	0.002	0.0029
Cadmium	bac-3	(0/23)	(0.00003 - 0.006)	--	--	--	--	5.00E-04	0.0055
Chromium	bac-3	(22/23)	(0.01 - 0.01)	0.00362	0.0615	0.0103	0.012	0.007	0.0267
Cobalt	bac-3	(1/23)	(0.0003 - 0.02)	0.0005	0.0005	0.00036667	0.000094281	0.004	0.0184
Fluoride	bac-3	(20/23)	(0.1 - 0.1)	0.4	2.51	1.134	0.671	1.28	2.278
Lead	bac-3	(0/23)	(0.0001 - 0.06)	--	--	--	--	0.002	0.055
Lithium	bac-3	(23/23)	--	0.328	2.53	1.087	0.539	0.974	2.346
Mercury	bac-3	(1/23)	(0.0000396 - 0.00015)	1.05E-04	1.05E-04	4.55E-05	1.88E-05	1.50E-04	1.50E-04
Molybdenum	bac-3	(22/23)	(0.03 - 0.03)	0.02	0.11	0.0387	0.0201	0.0337	0.0828
Radium 226 + 228	bac-3	(23/23)	--	0.38	2.38	1.21	0.503	1.14	2.066
Selenium	bac-3	(19/23)	(0.005 - 0.14)	0.0184	0.0287	0.0198	0.00528	0.0211	0.0479
Thallium	bac-3	(0/23)	(0.00003 - 0.002)	--	--	--	--	0.002	0.002
Antimony	bac-4	(0/23)	(0.00002 - 0.09)	--	--	--	--	0.002	0.0094

Table 2A
Summary Statistics - Bottom Ash Basin Surface Impoundment - 2015 -2024
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CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Arsenic	bac-4	(20/23)	(0.005 - 0.12)	0.00882	0.0407	0.03	0.00952	0.0329	0.0403
Barium	bac-4	(23/23)	--	0.0171	0.0821	0.0632	0.0131	0.0641	0.0803
Beryllium	bac-4	(0/23)	(0.00004 - 0.005)	--	--	--	--	0.002	0.002
Cadmium	bac-4	(0/23)	(0.00002 - 0.006)	--	--	--	--	5.00E-04	1.00E-03
Chromium	bac-4	(8/23)	(0.0002 - 0.01)	0.002	0.015	0.00217	0.00371	0.002	0.0109
Cobalt	bac-4	(0/23)	(0.00003 - 0.02)	--	--	--	--	0.004	0.004
Fluoride	bac-4	(23/23)	--	0.645	1.38	1.135	0.18	1.13	1.359
Lead	bac-4	(0/23)	(0.00004 - 0.06)	--	--	--	--	0.002	0.01
Lithium	bac-4	(23/23)	--	0.228	0.532	0.313	0.0942	0.279	0.509
Mercury	bac-4	(0/23)	(0.0000396 - 0.00015)	--	--	--	--	1.50E-04	1.50E-04
Molybdenum	bac-4	(22/23)	(0.03 - 0.03)	0.00992	0.03	0.0181	0.00621	0.0196	0.0298
Radium 226 + 228	bac-4	(23/23)	--	0.11	2.6	0.718	0.526	0.57	1.425
Selenium	bac-4	(2/23)	(0.000508 - 0.14)	0.001	0.0021	7.08E-04	3.88E-04	0.002	0.01
Thallium	bac-4	(0/23)	(0.00003 - 0.002)	--	--	--	--	0.002	0.002
Antimony	bac-5	(0/23)	(0.00002 - 0.09)	--	--	--	--	0.002	0.0094
Arsenic	bac-5	(20/23)	(0.005 - 0.12)	0.0275	0.0392	0.0293	0.00813	0.031	0.0389
Barium	bac-5	(23/23)	--	0.033	0.0928	0.0642	0.0216	0.0706	0.0907
Beryllium	bac-5	(0/23)	(0.00004 - 0.005)	--	--	--	--	0.002	0.002
Cadmium	bac-5	(0/23)	(0.00002 - 0.006)	--	--	--	--	5.00E-04	1.00E-03
Chromium	bac-5	(5/23)	(0.0002 - 0.01)	0.00204	0.0161	0.00136	0.00331	0.002	0.00941
Cobalt	bac-5	(0/23)	(0.00003 - 0.02)	--	--	--	--	0.004	0.004
Fluoride	bac-5	(23/23)	--	0.789	1.34	1.05	0.159	1.05	1.323
Lead	bac-5	(0/23)	(0.00004 - 0.06)	--	--	--	--	0.002	0.01
Lithium	bac-5	(23/23)	--	0.219	0.538	0.336	0.082	0.317	0.493
Mercury	bac-5	(0/23)	(0.0000396 - 0.00015)	--	--	--	--	1.50E-04	1.50E-04
Molybdenum	bac-5	(22/23)	(0.03 - 0.03)	0.00666	0.04	0.0191	0.0126	0.0134	0.0399
Radium 226 + 228	bac-5	(23/23)	--	0.2	2.96	0.817	0.668	0.61	1.804
Selenium	bac-5	(2/23)	(0.000508 - 0.14)	0.0009	0.0021	7.16E-04	3.73E-04	0.002	0.01
Thallium	bac-5	(0/23)	(0.00003 - 0.002)	--	--	--	--	0.002	0.002
Antimony	bac-6	(0/23)	(0.00002 - 0.09)	--	--	--	--	0.002	0.0094
Arsenic	bac-6	(20/23)	(0.005 - 0.12)	0.0115	0.0295	0.0207	0.00738	0.0229	0.0295
Barium	bac-6	(22/23)	(0.003 - 0.003)	0.015	0.0859	0.0326	0.0242	0.0227	0.0828
Beryllium	bac-6	(0/23)	(0.00004 - 0.005)	--	--	--	--	0.002	0.002
Cadmium	bac-6	(1/23)	(0.00002 - 0.006)	6.77E-04	6.77E-04	5.29E-05	1.43E-04	5.00E-04	1.00E-03
Chromium	bac-6	(8/23)	(0.0002 - 0.01)	0.0014	0.0363	0.00249	0.00727	0.002	0.00928
Cobalt	bac-6	(2/23)	(0.0003 - 0.02)	7.00E-04	8.00E-04	5.25E-04	2.28E-04	0.004	0.004
Fluoride	bac-6	(23/23)	--	0.582	1.15	0.905	0.15	0.901	1.144
Lead	bac-6	(0/23)	(0.00004 - 0.06)	--	--	--	--	0.002	0.01

Table 2A
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CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Lithium	bac-6	(23/23)	--	0.198	0.599	0.31	0.124	0.266	0.592
Mercury	bac-6	(0/23)	(0.0000396 - 0.00015)	--	--	--	--	1.50E-04	1.50E-04
Molybdenum	bac-6	(23/23)	--	0.0213	0.0968	0.0743	0.0203	0.0805	0.0937
Radium 226 + 228	bac-6	(23/23)	--	0	4.07	1.054	0.833	0.82	2.276
Selenium	bac-6	(8/23)	(0.000508 - 0.14)	0.0019	0.0045	0.00182	0.00132	0.002	0.01
Thallium	bac-6	(0/23)	(0.00003 - 0.002)	--	--	--	--	0.002	0.002
Antimony	bac-7	(0/23)	(0.00002 - 0.09)	--	--	--	--	0.002	0.0098
Arsenic	bac-7	(20/23)	(0.01 - 0.12)	0.0154	0.0434	0.0273	0.00935	0.0275	0.0432
Barium	bac-7	(23/23)	--	0.0168	0.0577	0.0243	0.0088	0.0214	0.0366
Beryllium	bac-7	(0/23)	(0.00004 - 0.005)	--	--	--	--	0.002	0.002
Cadmium	bac-7	(0/23)	(0.00002 - 0.006)	--	--	--	--	5.00E-04	1.90E-03
Chromium	bac-7	(6/23)	(0.0004 - 0.01)	0.0016	0.0264	0.00219	0.00528	0.002	0.00942
Cobalt	bac-7	(2/23)	(0.0003 - 0.02)	0.002	0.0047	9.14E-04	1.11E-03	0.004	0.00587
Fluoride	bac-7	(23/23)	--	0.388	2.28	1.295	0.41	1.31	2.048
Lead	bac-7	(0/23)	(0.00004 - 0.06)	--	--	--	--	0.002	0.01
Lithium	bac-7	(23/23)	--	0.218	0.699	0.355	0.157	0.288	0.68
Mercury	bac-7	(0/23)	(0.0000396 - 0.00015)	--	--	--	--	1.50E-04	1.50E-04
Molybdenum	bac-7	(23/23)	--	0.05	0.0944	0.0715	0.0137	0.0702	0.0939
Radium 226 + 228	bac-7	(23/23)	--	0.1	3.38	0.984	0.756	0.85	2.455
Selenium	bac-7	(19/23)	(0.01 - 0.14)	0.00202	0.0095	0.00431	0.00208	0.00446	0.01
Thallium	bac-7	(0/23)	(0.00003 - 0.002)	--	--	--	--	0.002	0.002
Antimony	bac-8	(0/12)	(0.00002 - 0.02)	--	--	--	--	0.003	0.0145
Arsenic	bac-8	(11/12)	(0.02 - 0.02)	0.0499	0.0668	0.0567	0.0126	0.061	0.0667
Barium	bac-8	(12/12)	--	0.034	0.0732	0.0418	0.0107	0.038	0.0604
Beryllium	bac-8	(0/12)	(0.00004 - 0.002)	--	--	--	--	4.00E-04	0.002
Cadmium	bac-8	(1/12)	(0.00002 - 0.001)	0.00129	0.00129	1.26E-04	3.51E-04	5.00E-04	0.00113
Chromium	bac-8	(4/12)	(0.0002 - 0.002)	0.0019	0.00431	0.00128	0.00145	0.002	0.00381
Cobalt	bac-8	(0/12)	(0.00003 - 0.005)	--	--	--	--	0.003	0.00445
Fluoride	bac-8	(12/12)	--	1.25	1.8	1.518	0.143	1.53	1.707
Lead	bac-8	(0/12)	(0.00004 - 0.01)	--	--	--	--	0.0015	0.01
Lithium	bac-8	(12/12)	--	0.139	0.183	0.16	0.0137	0.158	0.183
Mercury	bac-8	(0/12)	(0.0000396 - 0.00015)	--	--	--	--	9.00E-05	1.23E-04
Molybdenum	bac-8	(8/12)	(0.001 - 0.007)	0.0044	0.00644	0.00432	0.00208	0.00548	0.00669
Radium 226 + 228	bac-8	(8/8)	--	0.07	1.25	0.636	0.447	0.61	1.236
Selenium	bac-8	(2/12)	(0.000508 - 0.03)	0.0006	0.0012	6.71E-04	2.67E-04	0.002	0.019
Thallium	bac-8	(0/12)	(0.00003 - 0.002)	--	--	--	--	3.09E-04	0.002
Antimony	bac-9	(0/12)	(0.00002 - 0.02)	--	--	--	--	0.003	0.0145
Arsenic	bac-9	(12/12)	--	0.0481	0.0593	0.0517	0.00372	0.05	0.0588

Table 2A
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Barium	bac-9	(12/12)	--	0.0388	0.051	0.0447	0.00353	0.0445	0.0496
Beryllium	bac-9	(0/12)	(0.00004 - 0.002)	--	--	--	--	4.00E-04	0.002
Cadmium	bac-9	(1/12)	(0.00002 - 0.001)	0.00172	0.00172	1.62E-04	4.70E-04	5.00E-04	0.00132
Chromium	bac-9	(3/12)	(0.0002 - 0.002)	0.0017	0.0035	8.58E-04	0.00107	0.00185	0.00284
Cobalt	bac-9	(0/12)	(0.00003 - 0.005)	--	--	--	--	0.003	0.00445
Fluoride	bac-9	(12/12)	--	1.16	1.7	1.344	0.164	1.265	1.59
Lead	bac-9	(0/12)	(0.00004 - 0.01)	--	--	--	--	0.0015	0.01
Lithium	bac-9	(12/12)	--	0.13	0.194	0.166	0.0162	0.167	0.189
Mercury	bac-9	(0/12)	(0.0000396 - 0.00015)	--	--	--	--	9.00E-05	1.23E-04
Molybdenum	bac-9	(8/12)	(0.001 - 0.007)	0.0037	0.00565	0.00353	0.00164	0.00426	0.00626
Radium 226 + 228	bac-9	(12/12)	--	0.09	1.6	0.687	0.452	0.534	1.435
Selenium	bac-9	(2/12)	(0.000508 - 0.03)	0.0008	0.0015	7.84E-04	3.78E-04	0.002	0.019
Thallium	bac-9	(0/12)	(0.00003 - 0.002)	--	--	--	--	3.09E-04	0.002
Antimony	bac-10	(0/12)	(0.00002 - 0.02)	--	--	--	--	0.003	0.0145

Table 2A
Summary Statistics - Bottom Ash Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Arsenic	bac-10	(12/12)	--	0.05	0.06	0.0567	0.0034	0.0584	0.06
Barium	bac-10	(12/12)	--	0.035	0.0612	0.04	0.00732	0.0372	0.0523
Beryllium	bac-10	(0/12)	(0.00004 - 0.002)	--	--	--	--	4.00E-04	0.002
Cadmium	bac-10	(0/12)	(0.00002 - 0.001)	--	--	--	--	3.75E-04	1.00E-03
Chromium	bac-10	(3/12)	(0.0002 - 0.002)	0.0021	0.0033	8.50E-04	0.00115	0.002	0.00314
Cobalt	bac-10	(0/12)	(0.00003 - 0.005)	--	--	--	--	0.003	0.00445
Fluoride	bac-10	(12/12)	--	1.42	1.8	1.561	0.104	1.535	1.723
Lead	bac-10	(0/12)	(0.00004 - 0.01)	--	--	--	--	0.0015	0.01
Lithium	bac-10	(12/12)	--	0.113	0.171	0.152	0.0167	0.154	0.171
Mercury	bac-10	(0/12)	(0.0000396 - 0.00015)	--	--	--	--	9.00E-05	1.23E-04
Molybdenum	bac-10	(8/12)	(0.001 - 0.007)	0.00567	0.00656	0.00463	0.00223	0.00587	0.00676
Radium 226 + 228	bac-10	(12/12)	--	0	1.8	0.472	0.469	0.395	1.184
Selenium	bac-10	(2/12)	(0.000508 - 0.03)	0.0007	0.0013	7.18E-04	3.02E-04	0.002	0.019
Thallium	bac-10	(0/12)	(0.00003 - 0.002)	--	--	--	--	3.09E-04	0.002
Antimony	bac-11	(0/10)	(0.0005 - 0.02)	--	--	--	--	0.004	0.02
Arsenic	bac-11	(7/10)	(0.01 - 0.1)	0.031	0.05	0.0348	0.0118	0.0385	0.0775
Barium	bac-11	(10/10)	--	0.045	0.134	0.0883	0.0363	0.0975	0.131
Beryllium	bac-11	(0/10)	(0.0001 - 0.002)	--	--	--	--	0.0008	0.002
Cadmium	bac-11	(0/10)	(0.00005 - 0.005)	--	--	--	--	5.00E-04	0.0032
Chromium	bac-11	(2/10)	(0.0007 - 0.01)	0.001	0.0019	0.00108	0.00049181	0.002	0.00775
Cobalt	bac-11	(0/10)	(0.00007 - 0.01)	--	--	--	--	0.0035	0.0073
Fluoride	bac-11	(8/10)	(0.5 - 0.5)	0.29	1.34	0.752	0.375	0.967	1.196
Lead	bac-11	(3/10)	(0.0005 - 0.02)	0.0008	0.00288	0.00115	0.00076791	0.002	0.0155
Lithium	bac-11	(10/10)	--	0.145	0.272	0.206	0.0496	0.221	0.262
Mercury	bac-11	(0/10)	(0.00008 - 0.0002)	--	--	--	--	1.20E-04	1.78E-04
Molybdenum	bac-11	(6/10)	(0.002 - 0.01)	0.00287	0.004	0.00314	0.00074443	0.00363	0.01
Radium 226 + 228	bac-11	(10/10)	--	0	1.41	0.394	0.472	0.315	1.185
Selenium	bac-11	(2/10)	(0.0005 - 0.02)	0.0008	0.0009	0.00073333	0.00016997	0.002	0.0155

Table 2A
Summary Statistics - Bottom Ash Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Thallium	bac-11	(0/10)	(0.00003 - 0.002)	--	--	--	--	0.0002	0.002
Antimony	bac-12	(0/10)	(0.00002 - 0.02)	--	--	--	--	0.004	0.0155
Arsenic	bac-12	(8/10)	(0.01 - 0.1)	0.042	0.05	0.0412	0.0114	0.0434	0.0775
Barium	bac-12	(10/10)	--	0.047	0.0983	0.0677	0.018	0.0647	0.0963
Beryllium	bac-12	(0/10)	(0.00004 - 0.002)	--	--	--	--	0.0008	0.002
Cadmium	bac-12	(0/10)	(0.00002 - 0.001)	--	--	--	--	5.00E-04	0.001
Chromium	bac-12	(2/10)	(0.0007 - 0.01)	0.0019	0.002	0.0012	0.00060369	0.002	0.0064
Cobalt	bac-12	(0/10)	(0.00003 - 0.005)	--	--	--	--	0.0035	0.00455
Fluoride	bac-12	(8/10)	(0.5 - 0.5)	0.24	1.25	0.823	0.465	1.145	1.246
Lead	bac-12	(0/10)	(0.00004 - 0.01)	--	--	--	--	0.002	0.01
Lithium	bac-12	(10/10)	--	0.126	0.181	0.149	0.0197	0.148	0.177
Mercury	bac-12	(0/10)	(0.00008 - 0.0002)	--	--	--	--	9.00E-05	1.78E-04
Molybdenum	bac-12	(6/10)	(0.002 - 0.01)	0.004	0.00491	0.0039	0.00113	0.00459	0.00865
Radium 226 + 228	bac-12	(10/10)	--	0	1.1	0.352	0.403	0.285	1.033
Selenium	bac-12	(2/10)	(0.0005 - 0.03)	0.0008	0.0009	0.00073333	0.00016997	0.002	0.021
Thallium	bac-12	(0/10)	(0.00003 - 0.002)	--	--	--	--	0.0002	0.002
Antimony	bac-13	(0/10)	(0.00002 - 0.09)	--	--	--	--	0.004	0.054
Arsenic	bac-13	(6/10)	(0.01 - 0.12)	0.0329	0.0367	0.0286	0.0108	0.0347	0.111
Barium	bac-13	(10/10)	--	0.033	0.0773	0.0488	0.0137	0.048	0.0701
Beryllium	bac-13	(0/10)	(0.00004 - 0.002)	--	--	--	--	0.0006	0.002
Cadmium	bac-13	(0/10)	(0.00002 - 0.001)	--	--	--	--	5.00E-04	1.00E-03
Chromium	bac-13	(3/10)	(0.0007 - 0.01)	0.0018	0.0028	0.00143	0.00082003	0.002	0.00676
Cobalt	bac-13	(0/10)	(0.00003 - 0.004)	--	--	--	--	0.003	0.004
Fluoride	bac-13	(10/10)	--	0.604	1.32	0.796	0.225	0.727	1.171
Lead	bac-13	(2/10)	(0.00004 - 0.01)	0.0013	0.0014	0.000695	0.00065595	0.002	0.01
Lithium	bac-13	(10/10)	--	0.278	0.478	0.349	0.0655	0.318	0.447
Mercury	bac-13	(0/10)	(0.00008 - 0.0002)	--	--	--	--	9.00E-05	1.78E-04
Molybdenum	bac-13	(6/10)	(0.002 - 0.01)	0.0017	0.0032	0.00218	0.000574	0.00202	0.00694
Radium 226 + 228	bac-13	(10/10)	--	0	2.51	0.57	0.797	0.265	1.903
Selenium	bac-13	(5/10)	(0.0005 - 0.002)	0.0039	0.03	0.00723	0.00961	0.00295	0.0255
Thallium	bac-13	(0/10)	(0.00003 - 0.002)	--	--	--	--	0.0002	0.002
Antimony	bac-14	(0/10)	(0.00002 - 0.09)	--	--	--	--	0.004	0.054
Arsenic	bac-14	(5/10)	(0.01 - 0.12)	0.0285	0.0359	0.0231	0.0103	0.0294	0.111
Barium	bac-14	(10/10)	--	0.04	0.0542	0.0466	0.00455	0.046	0.0532
Beryllium	bac-14	(0/10)	(0.00004 - 0.002)	--	--	--	--	0.0006	0.002
Cadmium	bac-14	(0/10)	(0.00002 - 0.001)	--	--	--	--	5.00E-04	1.00E-03
Chromium	bac-14	(2/10)	(0.0007 - 0.01)	0.0014	0.0024	0.00104	0.00055799	0.002	0.00658
Cobalt	bac-14	(0/10)	(0.00003 - 0.004)	--	--	--	--	0.003	0.004

Table 2A
Summary Statistics - Bottom Ash Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Fluoride	bac-14	(10/10)	--	0.5	1.13	0.729	0.197	0.693	1.02
Lead	bac-14	(1/10)	(0.00004 - 0.01)	0.0008	0.0008	0.00029333	0.00035827	0.002	0.01
Lithium	bac-14	(10/10)	--	0.248	0.365	0.309	0.045	0.326	0.361
Mercury	bac-14	(0/10)	(0.00008 - 0.0002)	--	--	--	--	9.00E-05	1.78E-04
Molybdenum	bac-14	(5/10)	(0.002 - 0.01)	0	0.0038	0.00147	0.00121	0.002	0.00721
Radium 226 + 228	bac-14	(10/10)	--	0	0.77	0.283	0.334	0.13	0.752
Selenium	bac-14	(2/10)	(0.0005 - 0.01)	0.0017	0.0032	0.0014	0.00092118	0.002	0.01
Thallium	bac-14	(0/10)	(0.00003 - 0.002)	--	--	--	--	0.0002	0.002
Antimony	bac-15	(0/12)	(0.00004 - 0.02)	--	--	--	--	0.004	0.02
Arsenic	bac-15	(11/12)	(0.02 - 0.02)	0.05	0.07	0.0546	0.0116	0.0578	0.0651
Barium	bac-15	(12/12)	--	0.034	0.0506	0.0415	0.00494	0.0405	0.0497
Beryllium	bac-15	(0/12)	(0.00007 - 0.002)	--	--	--	--	8.00E-04	0.002
Cadmium	bac-15	(0/12)	(0.00003 - 0.005)	--	--	--	--	5.00E-04	0.0028
Chromium	bac-15	(1/12)	(0.0002 - 0.002)	0.0011	0.0011	0.00032857	0.00031493	0.00105	0.002
Cobalt	bac-15	(0/12)	(0.00005 - 0.02)	--	--	--	--	0.0035	0.0118
Fluoride	bac-15	(12/12)	--	1.32	2	1.698	0.183	1.715	1.956
Lead	bac-15	(0/12)	(0.0001 - 0.02)	--	--	--	--	0.002	0.0145
Lithium	bac-15	(12/12)	--	0.085	0.172	0.146	0.0226	0.148	0.167
Mercury	bac-15	(0/12)	(0.0000396 - 0.00015)	--	--	--	--	9.00E-05	1.23E-04
Molybdenum	bac-15	(7/12)	(0.001 - 0.007)	0.0062	0.00827	0.00473	0.00308	0.00703	0.00781
Radium 226 + 228	bac-15	(10/10)	--	0.06	2.1	0.708	0.68	0.41	1.884
Selenium	bac-15	(1/12)	(0.000508 - 0.03)	0.0005	0.0005	5.00E-04	0.00E+00	0.002	0.0245
Thallium	bac-15	(0/12)	(0.00003 - 0.002)	--	--	--	--	3.09E-04	0.002
Antimony	bac-16	(0/12)	(0.00004 - 0.09)	--	--	--	--	0.004	0.046
Arsenic	bac-16	(11/12)	(0.12 - 0.12)	0.07	0.09	0.0832	0.00552	0.0849	0.104
Barium	bac-16	(12/12)	--	0.034	0.041	0.0362	0.00191	0.036	0.0394
Beryllium	bac-16	(0/12)	(0.00007 - 0.005)	--	--	--	--	6.00E-04	0.00335
Cadmium	bac-16	(0/12)	(0.00003 - 0.006)	--	--	--	--	5.00E-04	0.00325
Chromium	bac-16	(1/12)	(0.0002 - 0.01)	0.0026	0.0026	4.18E-04	0.00068995	0.00146	0.00593
Cobalt	bac-16	(0/12)	(0.00005 - 0.02)	--	--	--	--	0.003	0.0112
Fluoride	bac-16	(12/12)	--	1.69	2.2	1.849	0.131	1.84	2.046
Lead	bac-16	(0/12)	(0.0001 - 0.06)	--	--	--	--	0.002	0.0325
Lithium	bac-16	(12/12)	--	0.129	0.236	0.169	0.0252	0.167	0.207
Mercury	bac-16	(0/12)	(0.0000396 - 0.00015)	--	--	--	--	9.00E-05	1.23E-04
Molybdenum	bac-16	(7/12)	(0.001 - 0.03)	0.0059	0.00732	0.00452	0.00269	0.00612	0.0175
Radium 226 + 228	bac-16	(10/10)	--	0.19	2.12	0.734	0.619	0.425	1.751
Selenium	bac-16	(1/12)	(0.000508 - 0.14)	0.0008	0.0008	6.05E-04	1.38E-04	0.002	0.0685
Thallium	bac-16	(0/12)	(0.00003 - 0.002)	--	--	--	--	3.09E-04	0.002

Table 2A Summary Statistics - Bottom Ash Basin Surface Impoundment - 2015 -2024 Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah	
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CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Notes: Except for Radium 226+228, all units micrograms per liter (mg/L), units for Radium 226+228 are picocuries per liter (pCi/L) Statistical Analyses were only conducted on wells with a minimum of 8 sampling results. Additional wells will be incorporated as more data is collected The mean and standard deviation are represented by the Kaplan-Meier mean and standard deviation for constituent/well pairs with non-detects, reported "--": Not applicable Well ID BA-U-1 and BA-U-2 are upgradient of the Bottom Ash Basin and represent background conditions, all other wells are downgradient of the Bottom Ash Basin									

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

January 16, 2025

TABLE 2B

SUMMARY STATISTICS, WASTEWATER BASIN SURFACE IMPOUNDMENT, 2015 -2024

Table 2B
Summary Statistics - Waste Water Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Antimony	ww-u-1	(0/23)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.002	0.01
Arsenic	ww-u-1	(18/23)	(0.002 - 0.12)	0.0041	0.0118	0.00597	0.00217	0.00593	0.0117
Barium	ww-u-1	(23/23)	--	0.026	0.178	0.0562	0.0377	0.0442	0.122
Beryllium	ww-u-1	(0/23)	(0.00004 - 0.005)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	ww-u-1	(0/23)	(0.00002 - 0.006)	N/A	N/A	N/A	N/A	5.00E-04	1.90E-03
Chromium	ww-u-1	(16/23)	(0.0004 - 0.01)	0.00124	0.0258	0.0041	0.00523	0.0032	0.0106
Cobalt	ww-u-1	(2/23)	(0.0003 - 0.02)	5.00E-04	6.00E-04	4.25E-04	1.30E-04	0.004	0.0058
Fluoride	ww-u-1	(19/23)	(0.1 - 1)	0.181	0.789	0.358	0.156	0.392	0.764
Lead	ww-u-1	(0/23)	(0.00004 - 0.06)	N/A	N/A	N/A	N/A	0.002	0.01
Lithium	ww-u-1	(23/23)	--	0.304	1.33	0.527	0.274	0.443	1.009
Mercury	ww-u-1	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04
Molybdenum	ww-u-1	(21/23)	(0.002 - 0.03)	0.00556	0.0102	0.00756	0.00187	0.00792	0.0102
Radium 226 + 228	ww-u-1	(23/23)	--	0.23	3.3	1.608	0.742	1.54	3.15
Selenium	ww-u-1	(20/23)	(0.01 - 0.14)	0.00432	0.02	0.00783	0.00347	0.00717	0.0196
Thallium	ww-u-1	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	ww-u-2	(0/23)	(0.00002 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0098
Arsenic	ww-u-2	(20/23)	(0.01 - 0.01)	0.00258	0.0149	0.00854	0.00402	0.01	0.014
Barium	ww-u-2	(23/23)	--	0.033	0.123	0.0586	0.0255	0.0497	0.115
Beryllium	ww-u-2	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	ww-u-2	(0/23)	(0.00002 - 0.002)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	ww-u-2	(16/23)	(0.0004 - 0.002)	0.00137	0.067	0.00605	0.0133	0.0039	0.011
Cobalt	ww-u-2	(3/23)	(0.00007 - 0.006)	5.00E-04	0.0072	5.64E-04	0.00143	0.004	0.0058
Fluoride	ww-u-2	(19/23)	(0.1 - 1)	0.287	1.01	0.489	0.21	0.506	0.972
Lead	ww-u-2	(0/23)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.01
Lithium	ww-u-2	(23/23)	--	0.394	1.35	0.595	0.246	0.503	1.071
Mercury	ww-u-2	(1/23)	(0.0000396 - 0.00015)	0.00019	0.00019	0.000046139	0.000030671	1.50E-04	1.50E-04
Molybdenum	ww-u-2	(20/23)	(0.000884 - 0.002)	0.0013	0.0342	0.00777	0.00903	0.00317	0.0236
Radium 226 + 228	ww-u-2	(23/23)	--	0.73	3.07	1.615	0.652	1.43	2.902
Selenium	ww-u-2	(20/23)	(0.01 - 0.01)	0.00543	0.014	0.0101	0.00228	0.0108	0.0127
Thallium	ww-u-2	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	si-u-1	(1/23)	(0.00002 - 0.01)	0.002	0.002	1.44E-04	4.79E-04	0.002	0.0098
Arsenic	si-u-1	(20/23)	(0.01 - 0.01)	0.00266	0.0144	0.00998	0.00258	0.00989	0.0138
Barium	si-u-1	(23/23)	--	0.037	0.112	0.0627	0.0209	0.0599	0.0923
Beryllium	si-u-1	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	si-u-1	(1/23)	(0.00002 - 0.002)	0.00128	0.00128	7.73E-05	2.62E-04	5.00E-04	0.00125
Chromium	si-u-1	(13/23)	(0.0004 - 0.002)	6.02E-04	0.0156	0.00296	0.00394	0.002	0.0118
Cobalt	si-u-1	(0/23)	(0.00003 - 0.006)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	si-u-1	(21/23)	(0.1 - 0.2)	0.38	0.779	0.495	0.144	0.519	0.618

Table 2B
Summary Statistics - Waste Water Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Lead	si-u-1	(0/23)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.01
Lithium	si-u-1	(23/23)	--	0.192	0.634	0.287	0.116	0.248	0.498
Mercury	si-u-1	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04
Molybdenum	si-u-1	(17/23)	(0.000884 - 0.002)	0.0016	0.00671	0.00239	0.00137	0.00206	0.0054
Radium 226 + 228	si-u-1	(23/23)	--	0.38	3.38	1.236	0.69	1.09	2.221
Selenium	si-u-1	(3/23)	(0.000508 - 0.01)	0.0052	0.006	1.27E-03	0.00181	0.002	0.01
Thallium	si-u-1	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	wwc-1	(0/23)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.002	0.019
Arsenic	wwc-1	(20/23)	(0.02 - 0.13)	0.00331	0.0343	0.021	0.00761	0.0215	0.111
Barium	wwc-1	(22/23)	(0.005 - 0.005)	0.0183	0.077	0.0304	0.016	0.027	0.0702
Beryllium	wwc-1	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	wwc-1	(0/23)	(0.00002 - 0.005)	N/A	N/A	N/A	N/A	5.00E-04	5.00E-04
Chromium	wwc-1	(8/23)	(0.00092 - 0.002)	0.0027	0.0139	0.0025	0.00311	0.002	0.00894
Cobalt	wwc-1	(5/23)	(0.00005 - 0.02)	0.0005	0.00842	0.00097519	0.00196	0.004	0.00811
Fluoride	wwc-1	(16/23)	(0.02 - 0.4)	0.111	0.593	0.242	0.184	0.256	0.538
Lead	wwc-1	(0/23)	(0.00004 - 0.02)	N/A	N/A	N/A	N/A	0.002	0.002
Lithium	wwc-1	(23/23)	--	0.369	2.69	1.1	0.564	0.961	2.387
Mercury	wwc-1	(19/23)	(0.00008 - 0.00015)	1.68E-04	5.90E-04	2.51E-04	1.39E-04	2.12E-04	5.63E-04
Molybdenum	wwc-1	(23/23)	--	0.00596	0.0176	0.0106	0.00307	0.00995	0.0151
Radium 226 + 228	wwc-1	(22/22)	--	0.6	2.51	1.284	0.523	1.18	2.443
Selenium	wwc-1	(22/23)	(0.02 - 0.02)	0.00824	0.0924	0.0228	0.0209	0.0147	0.0712
Thallium	wwc-1	(1/23)	(0.00003 - 0.002)	0.0002	0.0002	0.000058333	0.000063355	0.002	0.002
Antimony	wwc-2	(0/23)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.002	0.0094
Arsenic	wwc-2	(20/23)	(0.005 - 0.12)	0.0129	0.0166	0.0141	0.003	0.0151	0.0166
Barium	wwc-2	(23/23)	--	0.0296	0.0543	0.0366	0.00608	0.0357	0.0502
Beryllium	wwc-2	(0/23)	(0.00004 - 0.005)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	wwc-2	(0/23)	(0.00002 - 0.006)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	wwc-2	(7/23)	(0.0002 - 0.01)	0.0026	0.0243	0.0021	0.00493	0.002	0.00939
Cobalt	wwc-2	(0/23)	(0.00003 - 0.02)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	wwc-2	(22/23)	(1 - 1)	0.158	0.833	0.434	0.123	0.429	0.803
Lead	wwc-2	(0/23)	(0.00004 - 0.06)	N/A	N/A	N/A	N/A	0.002	0.01
Lithium	wwc-2	(23/23)	--	0.104	0.243	0.142	0.0412	0.126	0.239
Mercury	wwc-2	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04
Molybdenum	wwc-2	(20/23)	(0.002 - 0.03)	0.00304	0.00809	0.00367	0.00112	0.00356	0.00774
Radium 226 + 228	wwc-2	(22/22)	--	0	1.89	0.72	0.465	0.605	1.297
Selenium	wwc-2	(2/23)	(0.000508 - 0.14)	0.001	0.0016	8.25E-04	4.32E-04	0.002	0.01
Thallium	wwc-2	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	wwc-3	(0/23)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.002	0.0094

Table 2B
Summary Statistics - Waste Water Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Arsenic	wwc-3	(20/23)	(0.005 - 0.12)	0.0102	0.0247	0.0194	0.00536	0.0214	0.0246
Barium	wwc-3	(23/23)	--	0.0242	0.087	0.0389	0.0161	0.0332	0.0757
Beryllium	wwc-3	(0/23)	(0.00004 - 0.005)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	wwc-3	(0/23)	(0.00002 - 0.006)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	wwc-3	(6/23)	(0.0002 - 0.01)	0.0019	0.00577	1.18E-03	0.0015	0.002	0.00554
Cobalt	wwc-3	(0/23)	(0.00003 - 0.02)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	wwc-3	(23/23)	--	0.591	1.28	0.928	0.168	0.974	1.139
Lead	wwc-3	(0/23)	(0.00004 - 0.06)	N/A	N/A	N/A	N/A	0.002	0.01
Lithium	wwc-3	(23/23)	--	0.123	0.243	0.16	0.0351	0.151	0.24
Mercury	wwc-3	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04
Molybdenum	wwc-3	(19/23)	(0.001 - 0.03)	0.0041	0.0459	0.00623	0.00858	0.00486	0.0276
Radium 226 + 228	wwc-3	(23/23)	--	0.15	3.68	1.004	0.984	0.68	3.295
Selenium	wwc-3	(2/23)	(0.000508 - 0.14)	0.0013	0.0015	8.65E-04	4.42E-04	0.002	0.01
Thallium	wwc-3	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	wwc-4	(0/23)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.002	0.01
Arsenic	wwc-4	(19/23)	(0.005 - 0.12)	0.00498	0.0183	0.0125	0.00374	0.0135	0.0181
Barium	wwc-4	(23/23)	--	0.035	0.101	0.0536	0.0165	0.049	0.0887
Beryllium	wwc-4	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	wwc-4	(0/23)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	9.50E-04
Chromium	wwc-4	(6/23)	(0.0007 - 0.002)	5.00E-04	0.00877	0.00139	0.00205	0.002	0.00575
Cobalt	wwc-4	(0/23)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	wwc-4	(23/23)	--	0.319	0.623	0.454	0.078	0.439	0.575
Lead	wwc-4	(3/23)	(0.00004 - 0.01)	0.001	0.0014	0.00055143	0.00060094	0.002	0.0047
Lithium	wwc-4	(23/23)	--	0.258	0.909	0.411	0.188	0.345	0.866
Mercury	wwc-4	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04
Molybdenum	wwc-4	(11/23)	(0.000884 - 0.002)	0.0016	0.0082	0.00226	0.00196	0.002	0.00751
Radium 226 + 228	wwc-4	(23/23)	--	0.18	1.97	0.877	0.412	0.78	1.764
Selenium	wwc-4	(14/23)	(0.000508 - 0.01)	0.00177	0.0038	0.00193	9.82E-04	0.00216	0.00488
Thallium	wwc-4	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	wwc-5	(0/23)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.002	0.01
Arsenic	wwc-5	(19/23)	(0.005 - 0.12)	0.00371	0.0203	0.0109	0.00465	0.0104	0.0201
Barium	wwc-5	(23/23)	--	0.0294	0.103	0.0424	0.0188	0.0359	0.0861
Beryllium	wwc-5	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	wwc-5	(1/23)	(0.00002 - 0.001)	0.0002	0.0002	0.00005	0.000067082	5.00E-04	9.50E-04
Chromium	wwc-5	(8/23)	(0.0002 - 0.002)	0.00202	0.00892	0.00164	0.00231	0.002	0.00551
Cobalt	wwc-5	(3/23)	(0.00005 - 0.004)	0.0006	0.0055	5.42E-04	0.00113	0.004	0.004
Fluoride	wwc-5	(22/23)	(0.1 - 0.1)	0.219	0.668	0.373	0.114	0.366	0.539
Lead	wwc-5	(3/23)	(0.00004 - 0.01)	0.0018	0.0021	0.0007127	0.00088903	0.002	0.00471

Table 2B
Summary Statistics - Waste Water Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Lithium	wwc-5	(22/23)	(0.1 - 0.1)	0.392	4.41	0.764	0.84	0.497	1.409
Mercury	wwc-5	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04
Molybdenum	wwc-5	(19/23)	(0.000884 - 0.002)	0.0007	0.0265	0.00483	0.00638	0.00283	0.0196
Radium 226 + 228	wwc-5	(23/23)	--	0.2	2.42	1.35	0.54	1.3	2.197
Selenium	wwc-5	(21/23)	(0.002 - 0.01)	0.00312	0.02	0.00587	0.00373	0.00478	0.0122
Thallium	wwc-5	(1/22)	(0.00003 - 0.002)	0.0002	0.0002	0.000064	0.000068	0.002	0.002
Antimony	wwc-6	(0/13)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.004	0.042
Arsenic	wwc-6	(9/13)	(0.01 - 0.12)	0.0133	0.0167	0.0134	0.00209	0.014	0.058
Barium	wwc-6	(13/13)	--	0.032	0.0925	0.067	0.023	0.0795	0.0893
Beryllium	wwc-6	(0/13)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.0004	0.002
Cadmium	wwc-6	(0/13)	(0.00002 - 0.002)	N/A	N/A	N/A	N/A	2.50E-04	0.0014
Chromium	wwc-6	(6/13)	(0.0004 - 0.002)	0.0009	0.00457	0.00146	0.00123	0.0017	0.0036
Cobalt	wwc-6	(0/13)	(0.00003 - 0.006)	N/A	N/A	N/A	N/A	0.002	0.0048
Fluoride	wwc-6	(12/13)	(1 - 1)	0.155	0.291	0.226	0.042	0.244	0.575
Lead	wwc-6	(3/13)	(0.00004 - 0.01)	0.0006	0.0008	0.00037	0.00033501	0.001	0.01
Lithium	wwc-6	(12/13)	(0.056 - 0.056)	0.102	0.245	0.178	0.0554	0.204	0.231
Mercury	wwc-6	(0/13)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.50E-04
Molybdenum	wwc-6	(12/13)	(0.002 - 0.002)	0.0037	0.0067	0.00512	1.20E-03	0.0056	0.00629
Radium 226 + 228	wwc-6	(8/8)	--	0.444	1.96	1.048	0.534	1.025	1.771
Selenium	wwc-6	(4/13)	(0.000508 - 0.01)	0.0008	0.0041	1.13E-03	0.00101	0.002	0.01
Thallium	wwc-6	(0/13)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.000418	0.002
Antimony	wwc-7	(0/13)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.004	0.042
Arsenic	wwc-7	(9/13)	(0.005 - 0.12)	0.0141	0.022	0.0156	0.00645	0.0188	0.0612
Barium	wwc-7	(13/13)	--	0.026	0.059	0.0402	0.0115	0.032	0.059
Beryllium	wwc-7	(0/13)	(0.00004 - 0.005)	N/A	N/A	N/A	N/A	0.0006	0.0032
Cadmium	wwc-7	(0/13)	(0.00002 - 0.006)	N/A	N/A	N/A	N/A	5.00E-04	3.00E-03
Chromium	wwc-7	(4/13)	(0.0007 - 0.01)	0.0014	0.009	0.00195	0.00237	0.002	0.0094
Cobalt	wwc-7	(0/13)	(0.00003 - 0.02)	N/A	N/A	N/A	N/A	0.003	0.0104
Fluoride	wwc-7	(13/13)	--	0.297	0.465	0.389	0.0488	0.4	0.451
Lead	wwc-7	(0/13)	(0.00004 - 0.06)	N/A	N/A	N/A	N/A	0.002	0.03
Lithium	wwc-7	(9/13)	(0.0239 - 0.1)	0.062	0.184	0.0952	0.0447	0.1	0.174
Mercury	wwc-7	(0/13)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.50E-04
Molybdenum	wwc-7	(9/13)	(0.001 - 0.03)	0.00386	0.0067	0.00369	0.0017	0.00419	0.016
Radium 226 + 228	wwc-7	(8/8)	--	0.28	1.17	0.609	0.356	0.43	1.135
Selenium	wwc-7	(2/13)	(0.000508 - 0.14)	0.0006	0.0016	7.51E-04	4.26E-04	0.002	0.062
Thallium	wwc-7	(0/13)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.000418	0.002
Antimony	wwc-8	(0/12)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.003	0.046
Arsenic	wwc-8	(9/12)	(0.005 - 0.12)	0.0081	0.0172	0.0136	0.00444	0.0161	0.0635

Table 2B
Summary Statistics - Waste Water Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Barium	wwc-8	(12/12)	--	0.043	0.173	0.0619	0.0354	0.0516	0.112
Beryllium	wwc-8	(0/12)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	1.99E-04	0.002
Cadmium	wwc-8	(0/12)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	1.62E-04	1.00E-03
Chromium	wwc-8	(4/12)	(0.0002 - 0.002)	0.001	0.0073	1.46E-03	0.00217	0.00145	0.00587
Cobalt	wwc-8	(0/12)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.00115	0.004
Fluoride	wwc-8	(10/12)	(0.083 - 0.4)	0.34	0.472	0.366	0.103	0.396	0.462
Lead	wwc-8	(0/12)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.000794	0.00725
Lithium	wwc-8	(11/12)	(0.056 - 0.056)	0.103	0.262	0.184	0.0639	0.208	0.253
Mercury	wwc-8	(0/12)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.23E-04
Molybdenum	wwc-8	(11/12)	(0.002 - 0.002)	0.0026	0.00632	0.00319	0.00101	0.00297	0.00477
Radium 226 + 228	wwc-8	(7/7)	--	0.33	1.69	0.751	0.478	0.6	1.474
Selenium	wwc-8	(10/12)	(0.005 - 0.01)	0.0014	0.0045	0.00321	1.03E-03	0.00376	0.00725
Thallium	wwc-8	(0/12)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	3.09E-04	0.002
Antimony	wwc-9	(0/12)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.004	0.046
Arsenic	wwc-9	(9/12)	(0.005 - 0.12)	0.0231	0.0309	0.0233	0.00891	0.0268	0.071
Barium	wwc-9	(12/12)	--	0.0629	0.0973	0.0781	0.0103	0.077	0.0955

Table 2B
Summary Statistics - Waste Water Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Beryllium	wwc-9	(0/12)	(0.00004 - 0.005)	N/A	N/A	N/A	N/A	4.00E-04	0.00335
Cadmium	wwc-9	(0/12)	(0.00002 - 0.006)	N/A	N/A	N/A	N/A	3.75E-04	3.25E-03
Chromium	wwc-9	(3/12)	(0.0002 - 0.01)	0.0016	0.002	7.18E-04	7.67E-04	0.0018	0.0056
Cobalt	wwc-9	(0/12)	(0.00003 - 0.02)	N/A	N/A	N/A	N/A	0.003	0.0112
Fluoride	wwc-9	(11/12)	(0.4 - 0.4)	0.589	1.11	0.758	0.186	0.717	1.061
Lead	wwc-9	(0/12)	(0.00004 - 0.06)	N/A	N/A	N/A	N/A	0.002	0.0325
Lithium	wwc-9	(12/12)	--	0.147	0.229	0.171	0.0239	0.164	0.21
Mercury	wwc-9	(0/12)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.23E-04
Molybdenum	wwc-9	(9/12)	(0.002 - 0.03)	0.0022	0.00538	0.00292	0.00095657	0.00279	0.0165
Radium 226 + 228	wwc-9	(8/8)	--	0.19	1.53	0.708	0.465	0.65	1.415
Selenium	wwc-9	(2/12)	(0.000508 - 0.14)	0.0026	0.0028	1.06E-03	9.50E-04	0.0023	0.0685
Thallium	wwc-9	(0/12)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	3.09E-04	0.002
Antimony	wwc-10	(0/12)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.004	0.046
Arsenic	wwc-10	(8/12)	(0.01 - 0.12)	0.024	0.0377	0.0226	0.00851	0.0256	0.0747
Barium	wwc-10	(12/12)	--	0.028	0.0615	0.0357	0.00852	0.0343	0.0477
Beryllium	wwc-10	(0/12)	(0.00004 - 0.005)	N/A	N/A	N/A	N/A	6.00E-04	0.00335
Cadmium	wwc-10	(1/12)	(0.00002 - 0.006)	7.80E-04	7.80E-04	1.15E-04	2.51E-04	5.00E-04	0.0038
Chromium	wwc-10	(2/12)	(0.0004 - 0.01)	0.0015	0.0028	7.61E-04	7.42E-04	0.00125	0.00604
Cobalt	wwc-10	(0/12)	(0.00003 - 0.02)	N/A	N/A	N/A	N/A	0.003	0.0123
Fluoride	wwc-10	(10/12)	(0.02 - 1)	0.404	0.726	0.493	0.175	0.523	0.849
Lead	wwc-10	(0/12)	(0.00004 - 0.06)	N/A	N/A	N/A	N/A	0.002	0.0325
Lithium	wwc-10	(12/12)	--	0.078	0.14	0.112	0.0146	0.115	0.132
Mercury	wwc-10	(0/12)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.23E-04
Molybdenum	wwc-10	(9/12)	(0.002 - 0.03)	0.0053	0.00932	0.00621	0.00224	0.0066	0.0186
Radium 226 + 228	wwc-10	(12/12)	--	0.09	1.4	0.643	0.391	0.55	1.274
Selenium	wwc-10	(2/12)	(0.000508 - 0.14)	7.00E-04	8.00E-04	6.29E-04	1.26E-04	0.002	0.0685
Thallium	wwc-10	(0/12)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	3.09E-04	0.002
Antimony	wwc-11	(0/13)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.004	0.042

Table 2B
Summary Statistics - Waste Water Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Arsenic	wwc-11	(10/13)	(0.005 - 0.12)	0.00231	0.0176	0.011	0.00615	0.0139	0.0586
Barium	wwc-11	(13/13)	--	0.044	0.717	0.127	0.181	0.0717	0.377
Beryllium	wwc-11	(0/13)	(0.00004 - 0.005)	N/A	N/A	N/A	N/A	0.0006	0.0032
Cadmium	wwc-11	(0/13)	(0.00002 - 0.006)	N/A	N/A	N/A	N/A	5.00E-04	3.00E-03
Chromium	wwc-11	(4/13)	(0.0002 - 0.01)	0.0014	0.00246	9.25E-04	8.00E-04	0.0017	0.00548
Cobalt	wwc-11	(0/13)	(0.00003 - 0.02)	N/A	N/A	N/A	N/A	0.003	0.0104
Fluoride	wwc-11	(11/13)	(0.4 - 0.52)	0.181	0.494	0.369	0.0808	0.395	0.504
Lead	wwc-11	(0/13)	(0.00004 - 0.06)	N/A	N/A	N/A	N/A	0.002	0.03
Lithium	wwc-11	(7/13)	(0.013 - 0.1)	0.069	0.196	0.076	0.0479	0.093	0.152
Mercury	wwc-11	(0/13)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.20E-04
Molybdenum	wwc-11	(10/13)	(0.002 - 0.03)	0.0042	0.0119	0.00512	0.00245	0.00477	0.0191
Radium 226 + 228	wwc-11	(11/11)	--	0.11	1.43	0.66	0.438	0.65	1.365
Selenium	wwc-11	(2/13)	(0.000508 - 0.14)	6.00E-04	6.00E-04	5.54E-04	4.60E-05	0.002	0.062
Thallium	wwc-11	(0/13)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.000418	0.002
Antimony	wwc-12	(0/13)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.004	0.042
Arsenic	wwc-12	(9/13)	(0.005 - 0.12)	0.0181	0.0428	0.0246	0.0126	0.0315	0.0737
Barium	wwc-12	(13/13)	--	0.036	0.0761	0.0574	0.0114	0.061	0.0694
Beryllium	wwc-12	(0/13)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.0006	0.002
Cadmium	wwc-12	(0/13)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	wwc-12	(4/13)	(0.0002 - 0.002)	0.0008	0.00414	0.00103	0.0013	0.0014	0.00388
Cobalt	wwc-12	(0/13)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.003	0.004
Fluoride	wwc-12	(12/13)	(0.2 - 0.2)	0.272	0.481	0.368	0.0786	0.377	0.473
Lead	wwc-12	(0/13)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.01
Lithium	wwc-12	(12/13)	(0.056 - 0.056)	0.055	0.137	0.108	0.0267	0.118	0.136
Mercury	wwc-12	(0/13)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.20E-04
Molybdenum	wwc-12	(11/13)	(0.002 - 0.002)	0.003	0.005	0.00397	9.99E-04	0.00444	0.00493
Radium 226 + 228	wwc-12	(11/11)	--	0	0.97	0.533	0.333	0.64	0.935
Selenium	wwc-12	(2/13)	(0.000508 - 0.01)	5.00E-04	9.00E-04	5.80E-04	1.60E-04	0.002	0.01
Thallium	wwc-12	(0/13)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.000418	0.002
Antimony	wwc-13	(0/13)	(0.00002 - 0.09)	N/A	N/A	N/A	N/A	0.004	0.042
Arsenic	wwc-13	(9/13)	(0.005 - 0.12)	0.018	0.0231	0.0167	0.00684	0.0207	0.0619
Barium	wwc-13	(13/13)	--	0.034	0.061	0.0472	0.00864	0.0474	0.0597
Beryllium	wwc-13	(0/13)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.0006	0.002
Cadmium	wwc-13	(0/13)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	wwc-13	(3/13)	(0.0002 - 0.002)	0.0009	0.0048	8.51E-04	0.00122	0.0014	0.00312
Cobalt	wwc-13	(0/13)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.003	0.004
Fluoride	wwc-13	(12/13)	(0.2 - 0.2)	0.22	0.423	0.337	0.0681	0.363	0.419
Lead	wwc-13	(2/13)	(0.00004 - 0.01)	0.0007	0.0008	0.000324	0.00034926	0.002	0.01

Table 2B
Summary Statistics - Waste Water Basin Surface Impoundment - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Lithium	wwc-13	(12/13)	(0.056 - 0.056)	0.069	0.14	0.103	0.024	0.108	0.132
Mercury	wwc-13	(0/13)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.20E-04
Molybdenum	wwc-13	(11/13)	(0.002 - 0.002)	0.0031	0.00442	0.00343	7.02E-04	0.0036	0.00417
Radium 226 + 228	wwc-13	(11/11)	--	0	1.48	0.593	0.38	0.51	1.21
Selenium	wwc-13	(1/13)	(0.0001 - 0.01)	8.00E-04	8.00E-04	2.40E-04	2.80E-04	0.002	0.01
Thallium	wwc-13	(0/13)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.000418	0.002
Antimony	rw-4	(0/12)	(0.00002 - 0.02)	N/A	N/A	N/A	N/A	0.003	0.0145
Arsenic	rw-4	(8/12)	(0.005 - 0.02)	0.0237	0.0313	0.0205	0.0112	0.0263	0.0313
Barium	rw-4	(12/12)	--	0.0805	0.16	0.0966	0.0221	0.0885	0.136
Beryllium	rw-4	(0/12)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.0004	0.002
Cadmium	rw-4	(0/12)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	3.75E-04	1.00E-03
Chromium	rw-4	(4/12)	(0.0002 - 0.002)	7.00E-04	0.0029	9.57E-04	1.05E-03	0.0015	0.00283
Cobalt	rw-4	(0/12)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.0025	0.004
Fluoride	rw-4	(12/12)	--	0.533	0.919	0.742	0.129	0.745	0.912
Lead	rw-4	(2/12)	(0.00004 - 0.01)	0.0006	0.0013	0.00036667	0.00047246	0.00165	0.00725
Lithium	rw-4	(12/12)	--	0.235	0.416	0.295	0.0635	0.279	0.412
Mercury	rw-4	(1/12)	(0.0000396 - 0.00015)	0.00023	0.00023	0.000055467	0.000052624	9.00E-05	1.86E-04
Molybdenum	rw-4	(10/12)	(0.001 - 0.002)	0.0017	0.0052	0.00272	1.08E-03	0.00276	0.00435
Radium 226 + 228	rw-4	(6/6)	--	0.51	2.9	1.123	0.889	0.77	2.443
Selenium	rw-4	(3/12)	(0.000508 - 0.01)	0.0016	0.0056	1.43E-03	1.52E-03	0.002	0.00758
Thallium	rw-4	(0/12)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.000418	0.002
Antimony	rw-7	(0/8)	(0.000734 - 0.004)	N/A	N/A	N/A	N/A	0.003	0.004
Arsenic	rw-7	(7/8)	(0.005 - 0.005)	0.0203	0.0227	0.0195	0.00553	0.0212	0.0226
Barium	rw-7	(8/8)	--	0.0311	0.0351	0.033	0.00144	0.0329	0.0349
Beryllium	rw-7	(0/8)	(0.000198 - 0.002)	N/A	N/A	N/A	N/A	0.0015	0.002
Cadmium	rw-7	(0/8)	(0.0000742 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	8.25E-04
Chromium	rw-7	(3/8)	(0.00092 - 0.002)	0.00258	0.008	0.00236	0.00234	0.002	0.00648
Cobalt	rw-7	(0/8)	(0.0003 - 0.004)	N/A	N/A	N/A	N/A	0.0035	0.004
Fluoride	rw-7	(8/8)	--	0.564	0.626	0.591	0.0238	0.583	0.626
Lead	rw-7	(0/8)	(0.000588 - 0.005)	N/A	N/A	N/A	N/A	0.002	0.00395
Lithium	rw-7	(8/8)	--	0.116	0.148	0.137	0.0106	0.14	0.147
Mercury	rw-7	(0/8)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.50E-04
Molybdenum	rw-7	(7/8)	(0.001 - 0.001)	0.00399	0.00482	0.004	0.00116	0.00439	0.00478
Radium 226 + 228	rw-7	(3/3)	--	0.61	4.69	2.007	2.324	0.72	4.293
Selenium	rw-7	(0/8)	(0.000508 - 0.005)	N/A	N/A	N/A	N/A	0.002	0.00395
Thallium	rw-7	(0/8)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.0015	0.002

Notes:

Except for Radium 226+228, all units micrograms per liter (mg/L), units for Radium 226+228 are picocuries per liter (pCi/L)

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

January 16, 2025

TABLE 2C

SUMMARY STATISTICS, COMBUSTION BY-PRODUCTS LANDFILL, 2015-2024

Table 2C
Summary Statistics - Combustion By-Products Landfill - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Antimony	cl-u-1	(0/23)	(0.00002 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0094
Arsenic	cl-u-1	(21/23)	(0.005 - 0.01)	0.0272	0.0507	0.0324	0.0111	0.031	0.0498
Barium	cl-u-1	(23/23)	(N/A - N/A)	0.073	0.126	0.085	0.0104	0.084	0.0949
Beryllium	cl-u-1	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	cl-u-1	(1/23)	(0.00002 - 0.001)	6.50E-04	6.50E-04	5.15E-05	1.37E-04	5.00E-04	1.00E-03
Chromium	cl-u-1	(6/23)	(0.0002 - 0.002)	5.29E-04	0.00551	0.00119	0.00145	0.002	0.00503
Cobalt	cl-u-1	(0/23)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	cl-u-1	(23/23)	(N/A - N/A)	0.729	1.23	0.942	0.12	0.959	1.097
Lead	cl-u-1	(0/23)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0095
Lithium	cl-u-1	(23/23)	(N/A - N/A)	0.202	0.401	0.248	0.062	0.228	0.378
Mercury	cl-u-1	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04
Molybdenum	cl-u-1	(20/23)	(0.001 - 0.002)	0.00325	0.00733	0.00384	0.00145	0.00383	0.00645
Radium 226 + 228	cl-u-1	(23/23)	--	0.41	2.05	1.053	0.452	0.98	1.868
Selenium	cl-u-1	(2/23)	(0.000508 - 0.01)	0.001	0.0012	7.05E-04	2.85E-04	0.002	0.0095
Thallium	cl-u-1	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	cl-u-2	(0/23)	(0.00002 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0094
Arsenic	cl-u-2	(20/23)	(0.005 - 0.01)	0.0236	0.0317	0.0233	0.00727	0.0255	0.0277
Barium	cl-u-2	(23/23)	(N/A - N/A)	0.086	0.129	0.0947	0.00839	0.0934	0.101
Beryllium	cl-u-2	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	cl-u-2	(0/23)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	cl-u-2	(5/23)	(0.0002 - 0.002)	0.0016	0.00613	9.61E-04	0.00134	0.002	0.00226
Cobalt	cl-u-2	(0/23)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	cl-u-2	(23/23)	(N/A - N/A)	0.611	1.17	0.949	0.128	0.934	1.136
Lead	cl-u-2	(0/23)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0095
Lithium	cl-u-2	(23/23)	(N/A - N/A)	0.182	0.387	0.232	0.0584	0.212	0.351
Mercury	cl-u-2	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04
Molybdenum	cl-u-2	(20/23)	(0.001 - 0.002)	0.0035	0.00508	0.00364	1.07E-03	0.00401	0.00456
Radium 226 + 228	cl-u-2	(23/23)	--	0.48	3.7	1.245	0.711	1.1	2.17

Table 2C
Summary Statistics - Combustion By-Products Landfill - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Selenium	cl-u-2	(2/23)	(0.000508 - 0.01)	6.00E-04	9.00E-04	6.05E-04	1.52E-04	0.002	0.0095
Thallium	cl-u-2	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	cl-u-3	(0/12)	(0.00002 - 0.01)	N/A	N/A	N/A	N/A	0.004	0.01
Arsenic	cl-u-3	(8/12)	(0.001 - 0.01)	0.0183	0.0272	0.0145	0.00975	0.02	0.0241
Barium	cl-u-3	(12/12)	(N/A - N/A)	0.0342	0.0511	0.0469	0.00451	0.048	0.051
Beryllium	cl-u-3	(0/12)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	4.00E-04	0.002
Cadmium	cl-u-3	(0/12)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	3.75E-04	1.00E-03
Chromium	cl-u-3	(6/12)	(0.0002 - 0.002)	0.0015	0.0738	0.0077	0.02	0.00175	0.0363
Cobalt	cl-u-3	(1/12)	(0.00003 - 0.004)	0.0005	0.0005	0.000124	0.000188	0.0025	0.004
Fluoride	cl-u-3	(12/12)	(N/A - N/A)	0.429	1.08	0.806	0.158	0.825	1.002
Lead	cl-u-3	(0/12)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.0015	0.01
Lithium	cl-u-3	(12/12)	(N/A - N/A)	0.152	0.223	0.2	0.0206	0.203	0.223
Mercury	cl-u-3	(0/12)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.23E-04
Molybdenum	cl-u-3	(9/12)	(0.001 - 0.002)	0.00292	0.00964	0.00337	0.00221	0.00329	0.00691
Radium 226 + 228	cl-u-3	(13/13)	--	0.35	2.34	1.126	0.556	1.2	1.896
Selenium	cl-u-3	(2/12)	(0.0002 - 0.01)	0.0006	0.02	0.00192	0.00545	0.0015	0.0145
Thallium	cl-u-3	(0/12)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	3.09E-04	0.002
Antimony	cl-w-1	(0/23)	(0.00002 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0094
Arsenic	cl-w-1	(20/23)	(0.005 - 0.01)	0.0264	0.034	0.0265	0.00853	0.0295	0.0324
Barium	cl-w-1	(23/23)	(N/A - N/A)	0.053	0.105	0.0626	0.00972	0.0614	0.0666
Beryllium	cl-w-1	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	cl-w-1	(0/23)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	cl-w-1	(13/23)	(0.0007 - 0.002)	0.00102	0.0271	0.00498	0.0067	0.00235	0.0184
Cobalt	cl-w-1	(0/23)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	cl-w-1	(23/23)	(N/A - N/A)	0.834	1.2	1.048	0.101	1.05	1.177
Lead	cl-w-1	(0/23)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0095
Lithium	cl-w-1	(23/23)	(N/A - N/A)	0.165	0.361	0.21	0.0554	0.189	0.318
Mercury	cl-w-1	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04

Table 2C
Summary Statistics - Combustion By-Products Landfill - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Molybdenum	cl-w-1	(20/23)	(0.001 - 0.002)	0.00344	0.0068	0.00413	0.00151	0.00407	0.00648
Radium 226 + 228	cl-w-1	(23/23)	--	0.34	2.16	1.037	0.59	0.8	2.135
Selenium	cl-w-1	(4/23)	(0.000508 - 0.01)	9.28E-04	0.0019	1.07E-03	5.28E-04	0.002	0.0095
Thallium	cl-w-1	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	cl-w-2	(0/23)	(0.00002 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0094
Arsenic	cl-w-2	(20/23)	(0.005 - 0.01)	0.0243	0.0299	0.0236	0.00736	0.0258	0.0284
Barium	cl-w-2	(23/23)	(N/A - N/A)	0.0711	0.151	0.0829	0.0159	0.0809	0.095
Beryllium	cl-w-2	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	cl-w-2	(0/23)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	cl-w-2	(8/23)	(0.0002 - 0.002)	0.0022	0.014	0.00171	0.00303	0.002	0.0056
Cobalt	cl-w-2	(0/23)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	cl-w-2	(23/23)	(N/A - N/A)	0.695	1.29	1.136	0.127	1.14	1.287
Lead	cl-w-2	(0/23)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0095
Lithium	cl-w-2	(23/23)	(N/A - N/A)	0.211	0.438	0.258	0.0679	0.227	0.396
Mercury	cl-w-2	(1/23)	(0.0000396 - 0.00015)	0.00016	0.00016	0.000044835	0.000024553	1.50E-04	1.50E-04
Molybdenum	cl-w-2	(20/23)	(0.001 - 0.002)	0.0039	0.0102	0.00438	0.00178	0.0044	0.00589
Radium 226 + 228	cl-w-2	(23/23)	--	0.56	3.12	1.113	0.54	1.03	1.602
Selenium	cl-w-2	(3/23)	(0.000508 - 0.01)	0.0007	0.0012	7.23E-04	2.53E-04	0.002	0.0095
Thallium	cl-w-2	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	cl-w-3	(0/24)	(0.00002 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0091
Arsenic	cl-w-3	(21/24)	(0.005 - 0.01)	0.0364	0.0437	0.0355	0.0116	0.0395	0.0426
Barium	cl-w-3	(24/24)	(N/A - N/A)	0.089	0.111	0.099	0.00477	0.0992	0.104
Beryllium	cl-w-3	(0/24)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	cl-w-3	(0/24)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	cl-w-3	(7/24)	(0.0002 - 0.002)	5.05E-04	0.00346	1.02E-03	9.63E-04	0.002	0.00256
Cobalt	cl-w-3	(0/24)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	cl-w-3	(24/24)	(N/A - N/A)	0.948	1.6	1.273	0.133	1.25	1.549
Lead	cl-w-3	(0/24)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.00925

Table 2C
Summary Statistics - Combustion By-Products Landfill - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Lithium	cl-w-3	(24/24)	(N/A - N/A)	0.188	0.435	0.242	0.0658	0.216	0.374
Mercury	cl-w-3	(0/24)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.25E-04	1.50E-04
Molybdenum	cl-w-3	(21/24)	(0.001 - 0.002)	0.00463	0.0056	0.00449	1.34E-03	0.00489	0.00551
Radium 226 + 228	cl-w-3	(23/23)	--	0.2	2.02	1.064	0.545	1.03	1.953
Selenium	cl-w-3	(2/24)	(0.000508 - 0.01)	0.0006	0.001	6.09E-04	1.79E-04	0.002	0.00925
Thallium	cl-w-3	(0/24)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	cl-w-4	(0/24)	(0.00002 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0091
Arsenic	cl-w-4	(21/24)	(0.005 - 0.01)	0.0196	0.0444	0.0312	0.011	0.0343	0.0404
Barium	cl-w-4	(24/24)	(N/A - N/A)	0.067	0.122	0.0858	0.0145	0.0819	0.118
Beryllium	cl-w-4	(0/24)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	cl-w-4	(0/24)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	cl-w-4	(8/24)	(0.0002 - 0.002)	7.62E-04	0.0516	0.00306	0.0102	0.002	0.0033
Cobalt	cl-w-4	(0/24)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	cl-w-4	(24/24)	(N/A - N/A)	1.24	1.69	1.429	0.107	1.415	1.597
Lead	cl-w-4	(0/24)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.00925
Lithium	cl-w-4	(24/24)	(N/A - N/A)	0.185	0.375	0.229	0.0542	0.204	0.338
Mercury	cl-w-4	(0/24)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.25E-04	1.50E-04
Molybdenum	cl-w-4	(21/24)	(0.001 - 0.002)	0.00414	0.0115	0.00494	0.00223	0.00479	0.00896
Radium 226 + 228	cl-w-4	(23/23)	--	0.21	2.54	1.063	0.578	1.01	2.22
Selenium	cl-w-4	(2/24)	(0.000508 - 0.01)	5.00E-04	8.00E-04	5.60E-04	1.20E-04	0.002	0.00925
Thallium	cl-w-4	(0/24)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	cl-w-5	(0/23)	(0.00002 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0094
Arsenic	cl-w-5	(20/23)	(0.005 - 0.01)	0.0182	0.0253	0.0199	0.00609	0.0216	0.025
Barium	cl-w-5	(23/23)	(N/A - N/A)	0.064	0.0869	0.0731	0.00709	0.0714	0.0863
Beryllium	cl-w-5	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	cl-w-5	(0/22)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	cl-w-5	(7/23)	(0.0002 - 0.002)	7.12E-04	0.00999	0.00135	0.00221	0.002	0.00462
Cobalt	cl-w-5	(0/23)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.004	0.004

Table 2C
Summary Statistics - Combustion By-Products Landfill - 2015 -2024
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CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Fluoride	cl-w-5	(23/23)	(N/A - N/A)	1.51	2.03	1.754	0.117	1.73	1.908
Lead	cl-w-5	(0/23)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0095
Lithium	cl-w-5	(23/23)	(N/A - N/A)	0.025	0.411	0.213	0.0822	0.204	0.351
Mercury	cl-w-5	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04
Molybdenum	cl-w-5	(20/23)	(0.001 - 0.002)	0.00416	0.00922	0.00534	0.0022	0.00519	0.00865
Radium 226 + 228	cl-w-5	(23/23)	--	0.42	2.6	1.112	0.587	0.92	2.364
Selenium	cl-w-5	(2/23)	(0.000508 - 0.01)	5.00E-04	9.00E-04	5.80E-04	1.60E-04	0.002	0.0095
Thallium	cl-w-5	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	cl-w-6	(0/23)	(0.00002 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0094
Arsenic	cl-w-6	(20/23)	(0.005 - 0.01)	0.0104	0.0364	0.0183	0.00812	0.0175	0.032
Barium	cl-w-6	(23/23)	(N/A - N/A)	0.081	0.0985	0.09	0.00463	0.0893	0.0975
Beryllium	cl-w-6	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	cl-w-6	(0/23)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	cl-w-6	(6/23)	(0.0002 - 0.002)	6.12E-04	0.0116	0.00126	0.00236	0.002	0.00326
Cobalt	cl-w-6	(0/23)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	cl-w-6	(23/23)	(N/A - N/A)	1.32	1.84	1.568	0.134	1.55	1.73
Lead	cl-w-6	(0/23)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0095
Lithium	cl-w-6	(22/23)	(0.1 - 0.1)	0.182	0.4	0.223	0.064	0.203	0.341
Mercury	cl-w-6	(1/23)	(0.0000396 - 0.00015)	1.50E-04	1.50E-04	4.44E-05	2.25E-05	1.50E-04	1.50E-04
Molybdenum	cl-w-6	(19/23)	(0.001 - 0.002)	0.0043	0.0117	0.00598	0.00308	0.00607	0.011
Radium 226 + 228	cl-w-6	(23/23)	--	0.25	1.99	1.032	0.466	0.98	1.866
Selenium	cl-w-6	(3/23)	(0.000508 - 0.01)	5.00E-04	0.0068	8.76E-04	0.00133	0.002	0.00968
Thallium	cl-w-6	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	cl-w-7	(0/23)	(0.00002 - 0.02)	N/A	N/A	N/A	N/A	0.002	0.01
Arsenic	cl-w-7	(19/23)	(0.005 - 0.02)	0.0215	0.027	0.0209	0.00736	0.0239	0.0257
Barium	cl-w-7	(23/23)	(N/A - N/A)	0.047	0.0794	0.0539	0.00635	0.0529	0.0592
Beryllium	cl-w-7	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	cl-w-7	(0/22)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03

Table 2C
Summary Statistics - Combustion By-Products Landfill - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Chromium	cl-w-7	(7/23)	(0.0007 - 0.002)	0.00234	0.016	0.00272	0.00379	0.002	0.00879
Cobalt	cl-w-7	(0/23)	(0.00003 - 0.005)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	cl-w-7	(23/23)	(N/A - N/A)	0.792	1.24	1.007	0.106	1.01	1.158
Lead	cl-w-7	(0/23)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0095
Lithium	cl-w-7	(23/23)	(N/A - N/A)	0.165	0.331	0.209	0.0499	0.189	0.325
Mercury	cl-w-7	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04
Molybdenum	cl-w-7	(19/23)	(0.001 - 0.007)	0.00301	0.146	0.00961	0.0291	0.0037	0.00694
Radium 226 + 228	cl-w-7	(23/23)	--	0.12	1.4	0.694	0.366	0.61	1.291
Selenium	cl-w-7	(2/23)	(0.000508 - 0.03)	8.00E-04	9.00E-04	6.79E-04	1.75E-04	0.002	0.01
Thallium	cl-w-7	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	cl-w-8	(0/23)	(0.00002 - 0.02)	N/A	N/A	N/A	N/A	0.002	0.01
Arsenic	cl-w-8	(19/23)	(0.005 - 0.02)	0.0155	0.0391	0.0222	0.00866	0.0252	0.0297
Barium	cl-w-8	(23/23)	(N/A - N/A)	0.0521	0.107	0.0678	0.0116	0.0643	0.0835
Beryllium	cl-w-8	(0/23)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	cl-w-8	(0/23)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	5.00E-04	1.00E-03
Chromium	cl-w-8	(7/23)	(0.0002 - 0.002)	0.0016	0.012	0.00174	0.00281	0.002	0.00614
Cobalt	cl-w-8	(0/23)	(0.00003 - 0.005)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	cl-w-8	(23/23)	(N/A - N/A)	0.782	1.2	1.024	0.0982	1.03	1.13
Lead	cl-w-8	(0/23)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.002	0.0095
Lithium	cl-w-8	(23/23)	(N/A - N/A)	0.167	0.35	0.212	0.051	0.192	0.319
Mercury	cl-w-8	(0/23)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	1.50E-04	1.50E-04
Molybdenum	cl-w-8	(19/23)	(0.001 - 0.007)	0.00322	0.00626	0.00387	0.00132	0.004	0.00616
Radium 226 + 228	cl-w-8	(23/23)	--	0.24	2.16	1	0.529	1.01	1.835
Selenium	cl-w-8	(2/23)	(0.000508 - 0.03)	0.0005	0.0018	7.60E-04	5.20E-04	0.002	0.01
Thallium	cl-w-8	(0/23)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Antimony	cl-w-9	(0/12)	(0.00002 - 0.01)	N/A	N/A	N/A	N/A	0.004	0.0067
Arsenic	cl-w-9	(10/12)	(0.005 - 0.01)	0.0368	0.0425	0.0346	0.0133	0.0404	0.0423
Barium	cl-w-9	(12/12)	(N/A - N/A)	0.027	0.051	0.0457	0.00625	0.047	0.0504

Table 2C
Summary Statistics - Combustion By-Products Landfill - 2015 -2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

CCR Constituent	Well ID	Frequency of Detection	Range of Reporting Limits	Minimum Detected Concentration	Maximum Detected Concentration	Mean Concentration	Standard Deviation	Median	95th Percentile
Beryllium	cl-w-9	(0/12)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.0004	0.002
Cadmium	cl-w-9	(0/12)	(0.00002 - 0.001)	N/A	N/A	N/A	N/A	3.75E-04	1.00E-03
Chromium	cl-w-9	(6/12)	(0.0002 - 0.002)	0.002	0.0156	0.00241	0.00412	0.002	0.0086
Cobalt	cl-w-9	(0/12)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.0025	0.004
Fluoride	cl-w-9	(12/12)	(N/A - N/A)	1.37	2.08	1.845	0.192	1.885	2.047
Lead	cl-w-9	(0/12)	(0.00004 - 0.01)	N/A	N/A	N/A	N/A	0.0015	0.00725
Lithium	cl-w-9	(12/12)	(N/A - N/A)	0.061	0.195	0.159	0.0334	0.169	0.187
Mercury	cl-w-9	(0/12)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.23E-04
Molybdenum	cl-w-9	(10/12)	(0.001 - 0.002)	0.0051	0.00738	0.0049	0.00184	0.0053	0.0066
Radium 226 + 228	cl-w-9	(12/12)	--	0.21	1.22	0.591	0.298	0.47	1.154
Selenium	cl-w-9	(4/12)	(0.000508 - 0.01)	0.0006	0.0019	1.01E-03	5.26E-04	0.00195	0.00725
Thallium	cl-w-9	(0/12)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.000309	0.002
Antimony	wdb-19	(0/9)	(0.00002 - 0.004)	N/A	N/A	N/A	N/A	0.002	0.004
Arsenic	wdb-19	(9/9)	(N/A - N/A)	0.0287	0.0326	0.03	0.00114	0.0302	0.0317
Barium	wdb-19	(9/9)	(N/A - N/A)	0.0476	0.0606	0.0522	0.00442	0.0519	0.0593
Beryllium	wdb-19	(0/9)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Cadmium	wdb-19	(1/9)	(0.00002 - 0.0005)	0.0016	0.0016	1.96E-04	4.97E-04	5.00E-04	0.00116
Chromium	wdb-19	(3/9)	(0.00092 - 0.002)	0.0013	0.016	0.00374	0.00513	0.002	0.0136
Cobalt	wdb-19	(0/9)	(0.00003 - 0.004)	N/A	N/A	N/A	N/A	0.004	0.004
Fluoride	wdb-19	(9/9)	(N/A - N/A)	1.3	1.46	1.391	0.0662	1.41	1.46
Lead	wdb-19	(0/9)	(0.00004 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Lithium	wdb-19	(9/9)	(N/A - N/A)	0.189	0.224	0.211	0.00937	0.212	0.22
Mercury	wdb-19	(0/9)	(0.0000396 - 0.00015)	N/A	N/A	N/A	N/A	9.00E-05	1.50E-04
Molybdenum	wdb-19	(9/9)	(N/A - N/A)	0.00417	0.00675	0.00507	9.26E-04	0.00471	0.00654
Radium 226 + 228	wdb-19	(3/3)	--	0.13	1.62	0.743	0.779	0.48	1.506
Selenium	wdb-19	(0/9)	(0.0002 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002
Thallium	wdb-19	(0/9)	(0.00003 - 0.002)	N/A	N/A	N/A	N/A	0.002	0.002

Notes:

Except for Radium 226+228, all units micrograms per liter (mg/L), units for Radium 226+228 are picocuries per liter (pCi/L)

The mean and standard deviation are represented by the Kaplan-Meier mean and standard deviation for constituent/well pairs with non-detects, reported

Statistical Analyses were only conducted on wells with a minimum of 8 sampling results. Additional wells will be incorporated as more data is collected

"--": Not applicable

Well ID CL-U-1, CL-U-2 and CL-U-3 are upgradient of the Combustion By-Products Landfill and represent background conditions, all other wells are downgradient of the Combustions

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

January 16, 2025

TABLE 2D

**MAXIMUM CONTAMINANT LEVELS, UPPER TOLERANCE LIMITS, AND
GROUNDWATER PROTECTION STANDARDS, 2015 – 2024**

TABLE 2D
Maximum Contaminant Levels, Upper Tolerance Limits, and Groundwater Protection Standards 2015 - 2024
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

Constituent	MCL *	Bottom Ash Basin		Waste Water Basin		CB Landfill	
		UTL	GWPS	UTL	GWPS	UTL	GWPS
Antimony	0.006	0.004	0.006	0.008	0.006	0.004	0.006
Arsenic	0.01	0.0362	0.0362	0.01532	0.01532	0.0507	0.0507
Barium	2	0.175	2	0.1251	2	0.129	2
Beryllium	0.004	0.002	0.004	0.002	0.004	0.002	0.004
Cadmium	0.005	0.001	0.005	0.002	0.005	0.001	0.005
Chromium	0.1	0.0711	0.1	0.02184	0.1	0.0738	0.1
Cobalt *	0.006	0.004	0.006	0.0072	0.0072	0.004	0.006
Fluoride	4	1.75	4	1.01	4	1.203	4
Lead *	0.015	0.005	0.015	0.002	0.015	0.005	0.015
Lithium *	0.04	0.5944	0.5944	1.35	1.35	0.401	0.401
Mercury	0.002	0.00015	0.002	0.00019	0.002	0.00015	0.002
Molybdenum *	0.1	0.0408	0.1	0.02254	0.1	0.00964	0.1
Radium 226 + 228	5	2.136	5	3.17	5	2.437	5
Selenium	0.05	0.02	0.05	0.02	0.05	0.02	0.05
Thallium	0.02	0.002	0.02	0.002	0.02	0.002	0.02

All units microgram per liter (mg/L)

MCL: US EPA Maximum Contaminant Level

* US EPA Alternate Standards

UTL: Upper Tolerance Limit

GWPS: Groundwater Protection Standard, the higher of the UTL or the MCL/US EPA alternate standard

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

January 16, 2025

TABLE 3

**ASSESSMENT MONITORING - STOPLIGHT PLOT - STATISTICALLY SIGNIFICANT LEVELS ABOVE
GROUNDWATER PROTECTION STANDARDS 2015 - 2024**

TABLE 3. Assessment Monitoring - Spotlight Plot - Statistically Significant Levels above Groundwater Protection Standards - 2015 - 2024 Intermountain Power Service Corporation - Intermountain Generation Facility Delta, Utah															
Bottom Ash Basin															
	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt (AS)	Fluoride	Lead (AS)	Lithium (AS)	Mercury	Molybdenum (AS)	Radium 226+228	Selenium	Thallium
GWPS	0.006	0.0362	2	0.004	0.005	0.1	0.006	4	0.015	0.5944	0.002	0.1	5	0.05	0.02
BAC-1															
BAC-2															
BAC-3															
BAC-4															
BAC-5															
BAC-6															
BAC-7															
BAC-8															
BAC-9															
BAC-10															
BAC-11															
BAC-12															
BAC-13															
BAC-14															
BAC-15															
BAC-16															
Waste Water Basin															
GWPS	0.006	0.01532	2	0.004	0.005	0.1	0.0072	4	0.015	1.35	0.002	0.1	5	0.05	0.02
WWC-1															
WWC-2															
WWC-3															
WWC-4															
WWC-5															
WWC-6															
WWC-7															
WWC-8															
WWC-9															
WWC-10															
WWC-11															
WWC-12															
WWC-13															
RW-4															
RW-7															
COMBUSTION BY-PRODUCTS LANDFILL															
GWPS	0.006	0.0507	2	0.004	0.005	0.1	0.006	4	0.015	0.401	0.002	0.1	5	0.05	0.02
CLW-1															
CLW-2															
CLW-3															
CLW-4															
CLW-5															
CLW-6															
CLW-7															
CLW-8															
CLW-9															
WDB-19															
All units micrograms per liter (mg/L), except for Radium 226+228 which has units of picocuries per liter (pCi/L) UTL: 95% Upper Tolerance Limit with 95% coverage MCL: US EPA Maximum Contaminant Level AS: US EPA Alternative Standard: established for cobalt, lead, lithium, & molybdenum as these constituents do not have an MCLs GWPS: Groundwater protection standard is the greater of the site specific UTL or the MCL/AS. LCL: Lower confidence limit of the mean LCB: Lower confidence band around trend line Green Shading indicates that no detected concentration in the constituent/well pair exceed the GWPS Yellow Shading indicates that the at least one detected concentration in the constituent/well pair exceeded GWPS, but the LCL/LCB is below the GWPS (e.g. No Statistical Evidence of a statistical significant level (SSL) above the GWPS) Red Shading indicates that the LCL exceeds the GWPS or the LCB exceeds the GWPS at the last round of sampling. Evidence of a statistically significant level above the GWPS for the constituent/well pair.															

BAC-8/As changed red to green
BAC-3/As changed green to red
BAC-3 /Moly above GWPS for first time
BAC-6/Li above new GWPS
Bottom Ash Basin: GWPS for lithium dropped to .5994
Closed landfill all GWPS' remained same
GWPS for arsenic ww increased to .01532, excluded high 10/1/2024 outlier MDL of .12, which would serves as GWPS

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

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ATTACHMENT 1 DRILLING LOGS AND WELL SCHEMATIC DIAGRAMS

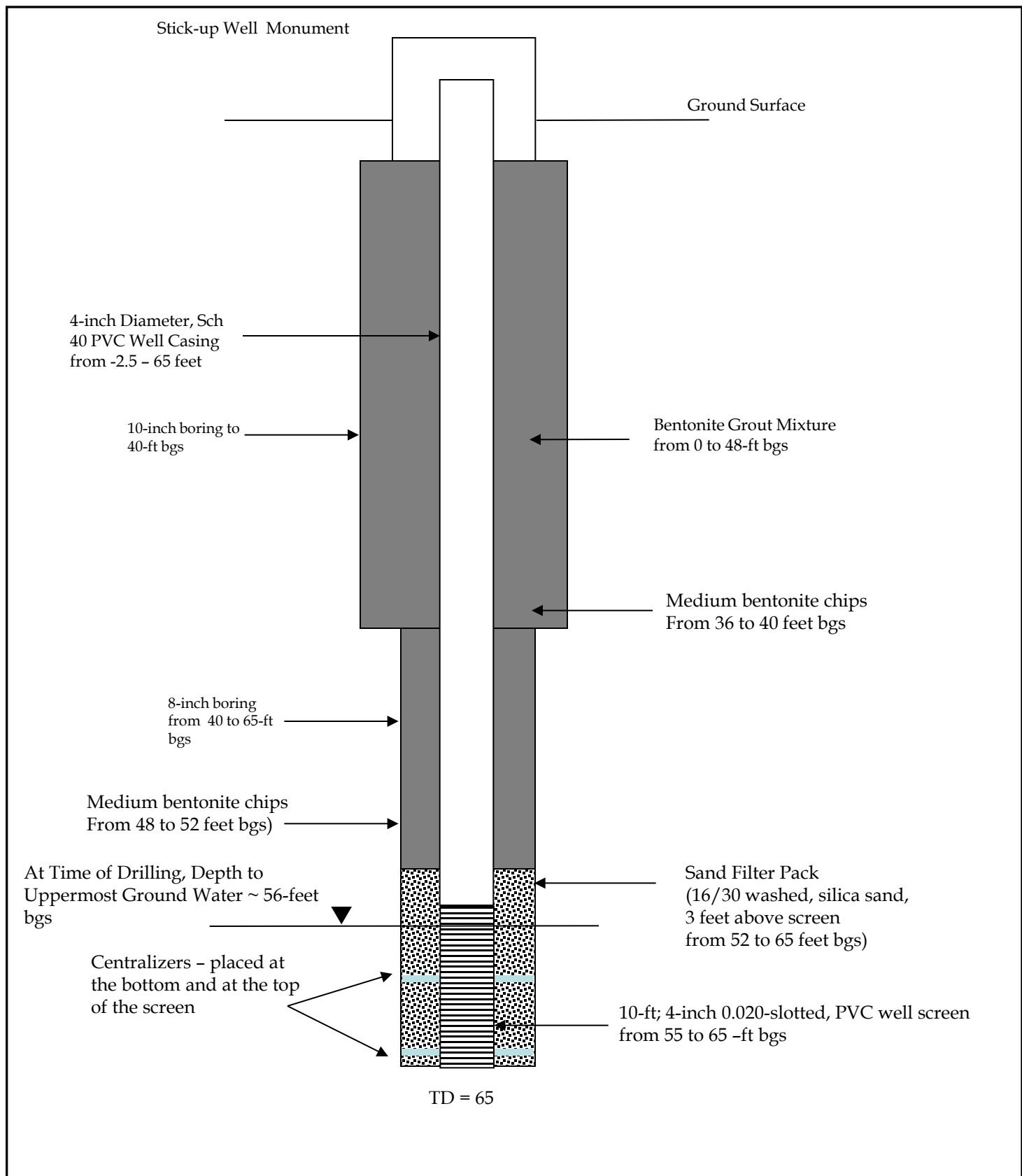
Boring Logs
IPSC
Delta, Utah

CLW-1

Interval (feet)	Drilling Method	Sample Description
		5/11/2015
0-3	10" Sonic	Brown fine grained Sand with gravel, dry
3-6	10" Sonic	Light to Dark Brown fine to medium grained Sand, no gravel present, dry
6-8	10" Sonic	Light Brown fine grained Sand
8-11.5	10" Sonic	Grayish white fine grained Sand, gravels present, rounded, dry
11.5-13.5	10" Sonic	Tan SILT with clay matrix, slightly moist
13.5-17	10" Sonic	Grayish Tan CLAY with small amount of silt present, slightly moist
17-23	10" Sonic	Grayish Tan SILT with fine grain sand present, trace amounts of clay, slightly moist
23-27	10" Sonic	Tannish Gray CLAY, denser, dry
27-32	10" Sonic	Tan CLAY, slightly moist
32-35	10" Sonic	Tan CLAY, denser material, slightly moist
		5/12/2015
35-48	10" Sonic to 40 feet	Tannish gray CLAY, moist
48-51	8" Sonic	Tannish gray CLAY, moist, softer
51-52	8" Sonic	Orangish, Brown, black fine grained Sand, moist
52-54	8" Sonic	Orangish, Brown , Red CLAY, slightly moist
54-56	8" Sonic	Orangish Brown CLAY with a fine grained sand matrix, slightly moist
56-62	8" Sonic	Light Brown fine grained Sand, saturated
62-63	8" Sonic	Light Brown CLAY, slightly moist
63-63.5	8" Sonic	Fine to medium grained Sand, slightly moist
63.5-64	8" Sonic	Light Brown CLAY, dry to slightly moist
64-65	8" Sonic	Light Brown fine grained Sand with clay matrix, moist

TD = 65; PVC 4-inch screen from 55 to 65; PVC 4-inch riser from -2.5 to 55

Drilling Company - Cascade Drilling
Driller - Rick Mallett
Geologist - Thomas Hedrick



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ISPC- CB LANDFILL AREA
DELTA, UTAH

Figure 1 – CLW-1 Schematic

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Delta, Utah

CLW-2

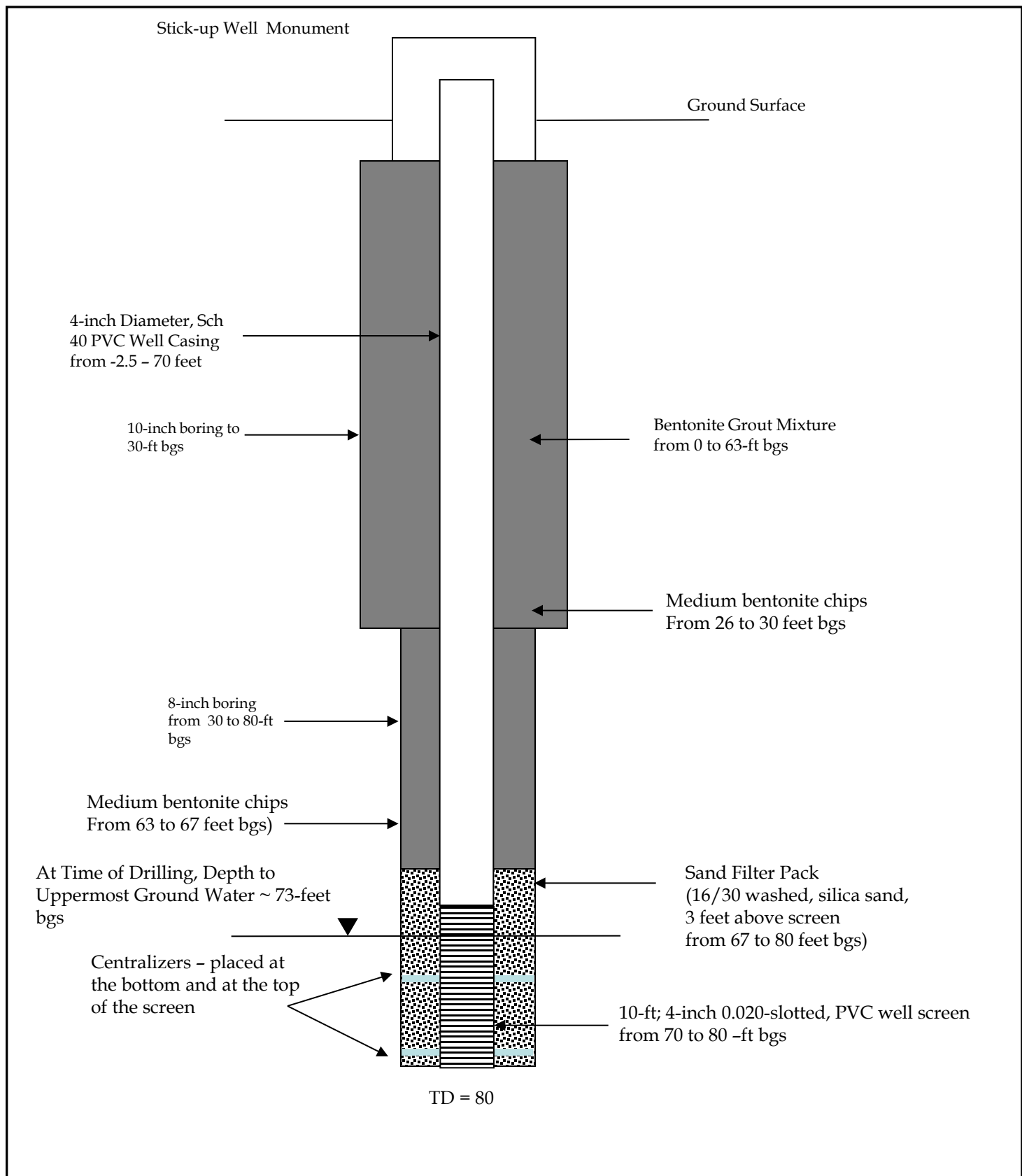
Interval (feet)	Drilling Method	Sample Description
		5/14/2015
0-8	10" Sonic	Brown fine grained Sand, clay present with gravel, dry
8-10	10" Sonic	Light to Dark Brown medium to coarse grained SAND, gravel present, dry
10-17	10" Sonic	Light Brown to Brown clayey SILT, slightly moist
17-25	10" Sonic	Light Brown Silty CLAY, moist
25-46	10" Sonic to 30 feet	Brown CLAY, slightly moist, from 40 to 45 feet transitioned to a Tan to Light Gray color
46-46.5	8" Sonic	Very moist to saturated zone, very soft clay , very sticky
46.5-50	8" Sonic	Light Gray CLAY, moist
50-51	8" Sonic	Tan to Light Gray with Orange zones, CLAY, slightly moist
51-51.5	8" Sonic	Very moist zone, CLAY
62	8" Sonic	Transitioning to a Orangish Red CLAY, Slightly moist
66-66.5	8" Sonic	Moist zone, transitioning from an Orangish Red to a Brown CLAY
66.5-73	8" Sonic	Reddish brown fine grained Sand with a clay matrix, very moist
73-80	8" Sonic	Brown fine gained Sand, trace amounts of clay, saturated.

TD = 80; PVC 4-inch screen from 70 to 80; PVC 4-inch riser from -2.5 to 70

Drilling Company - Cascade Drilling

Driller - Rick Mallett

Geologist - Thomas Hedrick



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Figure 1 – CLW-2 Schematic

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Delta, Utah

CLW-3

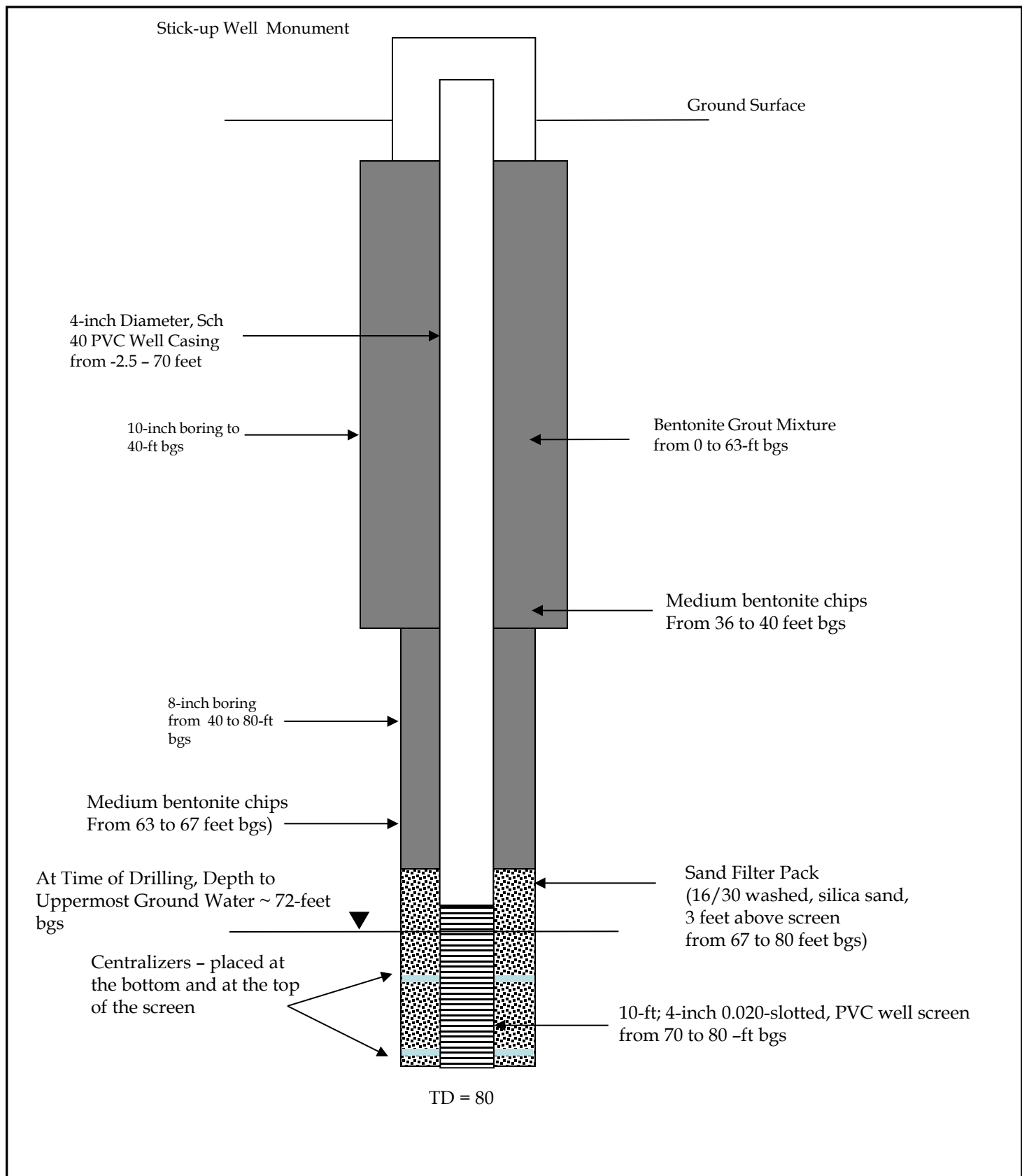
Interval (feet)	Drilling Method	Drill Time	Sample Description
			5/13/2015
0-3	10" Sonic		Brown fine grained Sand , clay present with gravel, dry
3-6	10" Sonic		Light to Dark Brown fine to medium grained Sand, no gravel present, dry
6-11	10" Sonic		Grayish White fine grained Sand, gravels present, rounded, dry
11-13	10" Sonic		Brownish Orange SILT, with fine grained sand present, soft
13-16	10" Sonic		Tannish Gray SILT with a clay present, very moist, sticky
16-21	10" Sonic		Tannish Gray SILT with a clay matrix, very moist, sticky
21-24	10" Sonic		Light Gray CLAY, with silt present, very moist
24-33	10" Sonic		Light Gray to Orange CLAY, with silt present, slightly moist
32-40	10" Sonic to 40 feet		Tan CLAY, denser material, slightly moist
40-66	8" Sonic		Tan to Light Brown CLAY, slightly moist to Dry
63	8" Sonic		Transiting into a Darker Gray CLAY, Moist
66-72	8" Sonic		Very moist to saturated, clay very plastic, firm and sticky
72-73	8" Sonic		Dark Gray fine to medium grained Sand, saturated
73-74	8" Sonic		Dark Gray CLAY, sticky firm, very moist
74-80	8" Sonic		Dark Gray fine to medium grained Sand, saturated

TD = 80; PVC 4-inch screen from 70 to 80; PVC 4-inch riser from -2.5 to 70

Drilling Company - Cascade Drilling

Driller - Rick Mallett

Geologist - Thomas Hedrick



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Figure 1 – CLW-3 Schematic

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Delta, Utah

CLW-4

Interval (feet)	Drilling Method	Sample Description
		7/24/2015
0-2	10" Sonic	Light Brown fine grained Sands with silts and gravel, dry
2-5	10" Sonic	Light Brown fine grained Sands, dry
5-11	10" Sonic	Light Brown to gray fine grained SAND, dry to slightly moist
11-13	10" Sonic	Light Brown silty CLAY, slightly moist, good plasticity
13-14	10" Sonic	Light Brown fine grained SAND, with clays present, poor plasticity, dry
14-16	10" Sonic	Light Brown clayey SILT, dry
16-18	10" Sonic	Light Brown to Brown silty CLAY, slightly moist, good plasticity
18-21	10" Sonic	Light Brown to Gray silty CLAY, slightly moist to moist, good plasticity
21-24	10" Sonic	Brownish Gray CLAY, moist, high plasticity
34-32	10" Sonic	Brownish Gray CLAY, moist to very moist, high plasticity
32-53	10" Sonic to 39 feet	Brownish Gray CLAY, dencer, slightly moist,
		44 - thin layer of brownish orange fine grained sand
		47 - transitioning into a gray clay
		49 - thin layer of brownish orange fine grained sand
53-55	8" Sonic	Brownish Gray CLAY, dense, very plastic, slightly moist
55-73	8" Sonic	Brown CLAY, very plastic, slightly moist
73-82	8" Sonic	Brown fine grained SAND with a clay matrix, saturated

TD = 82; PVC 4-inch screen from 72 to 82; PVC 4-inch riser from -2.5 to 72

Drilling Company - Cascade Drilling
Driller - Rick Mallett
Geologist - Thomas Hedrick

Above-grade, 5-feet. long, 6-in. dia., steel
Wellhead Protective Monument
~ 2.5-feet. stick-up

Ground Surface

4-inch Diameter, Sch 40 PVC
Well Casing from -2.0 - 82 feet

10-inch dia. boring to
39-feet bgs

Cement-Bentonite (~ 10:1) Grout,
Tremie-Pipe Slurry from 0 to 63-feet
below ground surface (bgs)

Medium bentonite chips
From 35 to 39 feet bgs

8-inch boring from
39 to 82-feet bgs

Medium bentonite chips
From 63 to 69 feet bgs)

Sand Filter Pack
(16/30 washed, silica sand,
3 feet above screen
from 69 to 82 feet bgs)

At Time of Drilling, Depth to
Uppermost Ground Water ~ 73-
feet bgs

Centralizers - placed at
the bottom and at the top
of the screen

10-feet; 4-inch 0.020-slotted, PVC
well screen from 72 to 82 -feet bgs

Total Depth (TD) = 82 feet bgs



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DELTA, UTAH

CLW-4 Schematic

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IPSC
Delta, Utah

CLW-5

Interval (feet)	Drilling Method	Sample Description
		7/26/2015
0-3	10" Sonic	Light Brown fine grained Sands with silts and gravel, dry
3-4	10" Sonic	Gravels with medium to fine grand sands, moist
4-7.5	10" Sonic	Light Brown sitly CLAY, slightly moist, good plasticity
7.5-10	10" Sonic	Light Brown fine to medium grained SAND, dry
10-12	10" Sonic	Light Brown to Gray fine to medium grained SAND, gravels present, slightly moist
12-13	10" Sonic	Light Brown clayey SILT, slightly moist,
13-15	10" Sonic	Brown fine to medium grained SAND, wht clays and silts, slightly moist
		7/27/2015
15-22	10" Sonic	Brown silty CLAY, slightly moist, good plasticity
22-32	10" Sonic	Light Brown CLAY, moistgood plasticity
32-38	10" Sonic	Brown CLAY, slightly moist, high plasticity
38-40	10" Sonic to 39 feet	Light Gray CLAY, slightly moist, hight plasticity
40-44	8" Sonic	Light Brown to Brown CLAY, slightly moist, high plasticity
44-52	8" Sonic	Light Gray CLAY, hight plasticity, slighly moist
52-53	8" Sonic	Brown CLAY, high plasticity, slightly moist
53-55	8" Sonic	Gray CLAY, high plasticity, slightly moist
55-72	8" Sonic	Gray CLAY, high plasticity, moist
72-74	8" Sonic	Gray fine grained SAND, with clay matrix, moist to saturated
74-75	8" Sonic	Gray CLAY with fine grained sandy matrix, poor plasticity, moist
75-78	8" Sonic	Gray fine grained SAND wht a clayey matrix, poor plasticity, saturated
78-80	8" Sonic	Gray CLAY with fine grained sandy matrix, poor plasticity, moist
80-82	8" Sonic	Gray fine grained SAND wht a clayey matrix, poor plasticity, saturated

TD = 82; PVC 4-inch screen from 72 to 82; PVC 4-inch riser from -2.5 to 72

Drilling Company - Cascade Drilling
Driller - Rick Mallett
Geologist - Thomas Hedrick

Above-grade, 5-feet. long, 6-in. dia., steel
Wellhead Protective Monument
~ 2.5-feet. stick-up

Ground Surface

4-inch Diameter, Sch 40 PVC
Well Casing from -2.0 - 82 feet

10-inch dia. boring to
39-feet bgs

Cement-Bentonite (~ 10:1) Grout,
Tremie-Pipe Slurry from 0 to 65-feet
below ground surface (bgs)

Medium bentonite chips
From 35 to 39 feet bgs

8-inch boring from
39 to 82-feet bgs

Medium bentonite chips
From 65 to 69 feet bgs)

Sand Filter Pack
(16/30 washed, silica sand,
3 feet above screen
from 69 to 82 feet bgs)

At Time of Drilling, Depth to
Uppermost Ground Water ~ 72-
feet bgs

Centralizers - placed at
the bottom and at the top of
the screen

10-feet; 4-inch 0.020-slotted, PVC
well screen from 72 to 82 -feet bgs

Total Depth (TD) = 82 feet bgs



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CLW-5 Schematic

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IPSC

Delta, Utah

CLW-6

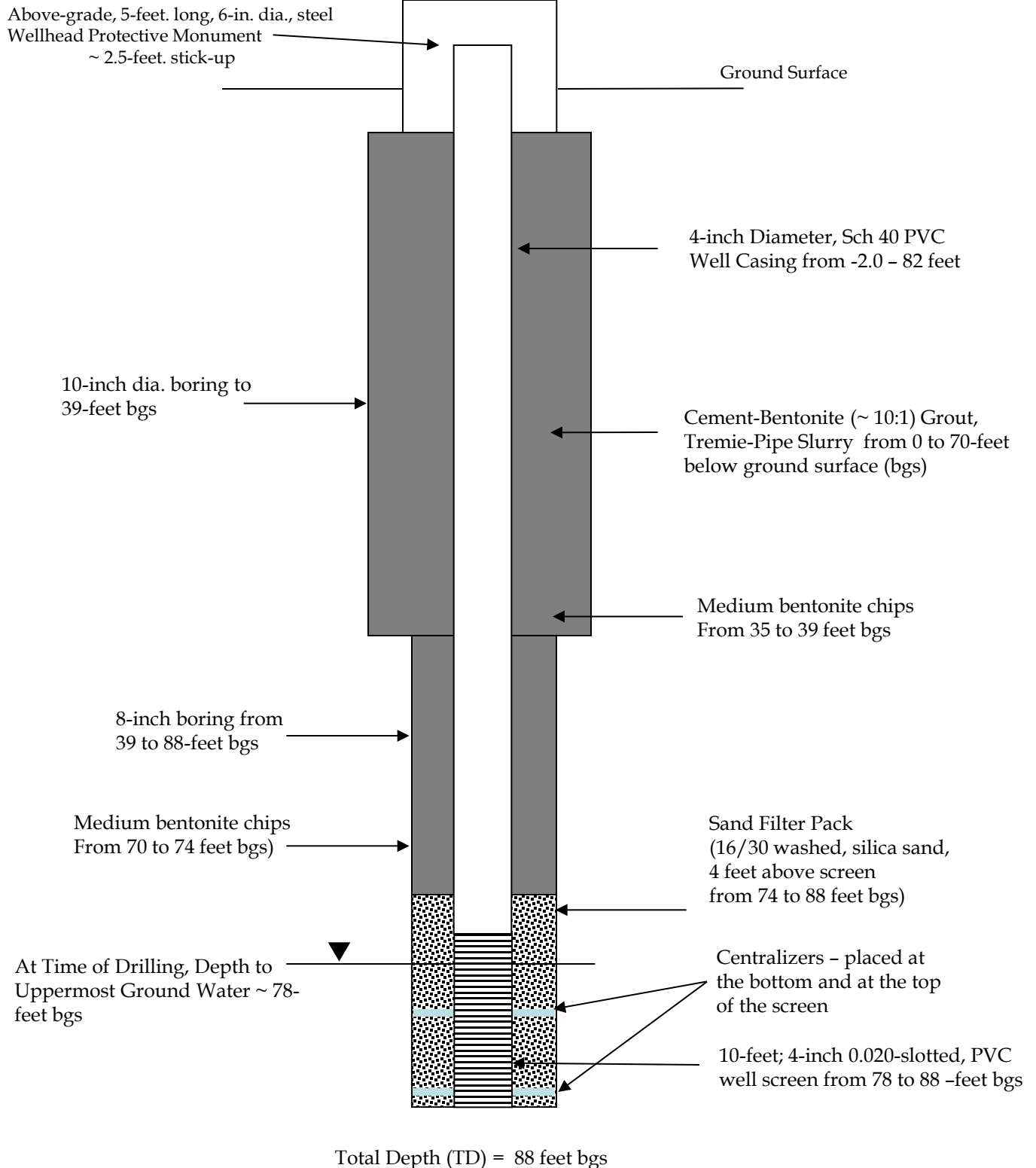
Interval (feet)	Drilling Method	Sample Description
		7/26/2015
0-3	10" Sonic	Light Brown fine grained Sands with silts and gravel, dry
3-5	10" Sonic	Light Brown silty fine grained SAND, dry
5-7	10" Sonic	Light Brown fine grained sandy SILT, dry
7-12	10" Sonic	Light Brown fine to medium grained SAND, dry
12-15	10" Sonic	Light Brown fine grained sand, with a clay matrix, dry
15-21	10" Sonic	Light Brown to Brown clayey SILT, slightly moist, poor plasticity
21-22	10" Sonic	Light Brown fine grained sand, with a clay matrix, dry
21-23		Light Brown to Brown clayey SILT, slightly moist, poor plasticity
23-32	10" Sonic	Light Brown CLAY, moist, sticky, high plasticity
32-38	10" Sonic	Light Brown to Gray CLAY, moist, high plasticity
38-47	10" Sonic	Light Gray to Gray CLAY, slightly moist, high plasticity
47-55	10" Sonic to 39 feet	Transitioned to a Brownish gray CLAY, high plasticity, slight moist
55-72	8" Sonic	Brown CLAY, high plasticity, slightly moist
		58 - 58.5 very moist to saturated, 59 - slightly moist
72-78	8" Sonic	Gray CLAY, very moist, high plasticity
78-82	8" Sonic	Gray fine grained SAND with a clay matrix, poor plasticity, saturated
82-84	8" Sonic	Gray CLAY, high plasticity, very moist
84-85	8" Sonic	Gray fine grained SAND with a clay matrix, poor plasticity, saturated
85-88	8" Sonic	Gray CLAY, high plasticity, very moist

TD = 88; PVC 4-inch screen from 78 to 88; PVC 4-inch riser from -2.5 to 78

Drilling Company - Cascade Drilling

Driller - Rick Mallett

Geologist - Thomas Hedrick



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DELTA, UTAH

CLW-6 Schematic

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 IPSC
 Delta, Utah

CLW-7

Interval (feet)	Drilling Method	Sample Description
		7/24/2015
0-8	10" Sonic	Light Brown fine grained Sands with silts and gravel, angular, Dry
8-12	10" Sonic	Light Brown fine grained Sands with silts and clay, No gravel, Dry
12-15	10" Sonic	Tan SILT with a clay matrix, Dry
15-17	10" Sonic	Light Brown to Gray CLAY, medium plasticity, silty present, Dry
17-22	10" Sonic	Light Brown Clayey SILT, slightly moist
22-24	10" Sonic	Light Brown to Grayish silty CLAY, Dry
24-32	10" Sonic	Light Brown to Grayish CLAY, Brown silts and fine grained sands present, , Dry
32-40	10" Sonic to 39 feet	Light Brown CLAY, slightly moist, became denser at 35 feet
40-43	8" Sonic	Light Brown to Grayish CLAY, very dense, slightly moist
43-48	8" Sonic	Gray CLAY, slightly moist, some layers of a brown fine grained sand present every 3 to 4 inches along the core
48-50	8" Sonic	Gray CLAY, slightly moist, some Iron Oxide present
50-51.5	8" Sonic	Brown fine to medium grained SANDS, saturated
51.5-58	8" Sonic	Brown CLAY, moist to slightly moist
58-58.5	8" Sonic	Brown fine grained SANDS, with a clay matrix, saturated
58.5-61	8" Sonic	Brown CLAY, moist to slightly moist
61-68	8" Sonic	Brown fine to medium grained SANDS, saturated
68-70	8" Sonic	Brown CLAY, moist to slightly moist
70-72	8" Sonic	Brown fine to medium grained SANDS, saturated

TD = 72; PVC 4-inch screen from 52 to 72; PVC 4-inch riser from -2.5 to 52

Drilling Company - Cascade Drilling
 Driller - Rick Mallett
 Geologist - Thomas Hedrick

Above-grade, 5-feet. long, 6-in. dia., steel
Wellhead Protective Monument
~ 2.5-feet. stick-up

Ground Surface

4-inch Diameter, Sch 40 PVC
Well Casing from -2.0 - 70 feet

10-inch dia. boring to
39-feet bgs

Cement-Bentonite (~ 10:1) Grout,
Tremie-Pipe Slurry from 0 to 45-feet
below ground surface (bgs)

Medium bentonite chips
From 35 to 39 feet bgs

8-inch boring from
39to 72-feet bgs

Medium bentonite chips
From 45 to 49 feet bgs)

Sand Filter Pack
(16/30 washed, silica sand,
3 feet above screen
from 49 to 72 feet bgs)

At Time of Drilling, Depth to
Uppermost Ground Water ~ 52-
feet bgs

Centralizers - placed at
the bottom and at the top
of the screen

10-feet; 4-inch 0.020-slotted, PVC
well screen from 52 to 72 -feet bgs

Total Depth (TD) = 72 feet bgs



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CLW-7 Schematic

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CLW-8

Interval (feet)	Drilling Method	Sample Description
		7/24/2015
0-3	10" Sonic	Light Brown fine grained Sands with silts and gravel, dry
3-5	10" Sonic	Light Brown fine grained Sands, slightly moist
5-7	10" Sonic	Tannish white fine grained Sand, with smooth, rounded pebbles, slightly moist
7-10	10" Sonic	Tannish white silty, fine grained Sand, slightly moist
10-13	10" Sonic	Tan SILT with a clay matrix, slightly most, slightly plastic
13-15	10" Sonic	Tan Clayey SILT, dry, plastic
15-18	10" Sonic	Light Brown to tan silty CLAY, slightly moist, good plasticity
18-24	10" Sonic	Light Brown CLAY with silts present, slightly moist, good plasticity
24-32	10" Sonic	Brown silty CLAY, slightly moist, good plasticity
32-37	10" Sonic	Brown CLAY, dence, dry to slighthly moist, very plastic
37-52	10" Sonic to 39 feet	Transitioned fomrthe Brown CLAY to a Gray CLAY, with interbeds of brown fine gran sand layers, highly plastic, slihgltly moist
52-62	8" Sonic	Brown fine grained SAND with a clay matrix, saturated

TD = 62; PVC 4-inch screen from 52 to 62; PVC 4-inch riser from -2.5 to 52

Drilling Company - Cascade Drilling

Driller - Rick Mallett

Geologist - Thomas Hedrick

Above-grade, 5-ft. long, 6-in. dia., steel
Wellhead Protective Monument
~ 2.5-ft. stick-up

Ground Surface

4-inch Diameter, Sch 40 PVC
Well Casing from -2.0 - 62 feet

10-inch dia. boring to
39-ft bgs

Cement-Bentonite (~ 10:1) Grout,
Tremie-Pipe Slurry from 0 to 45-ft
below ground surface (bgs)

Medium bentonite chips
From 35 to 39 feet bgs

8-inch boring from
39 to 72-ft bgs

Medium bentonite chips
From 45 to 49 feet bgs)

Sand Filter Pack
(16/30 washed, silica sand,
3 feet above screen
from 49 to 62 feet bgs)

At Time of Drilling, Depth to
Uppermost Ground Water ~ 52-ft
bgs

Centralizers - placed at
the bottom and at the top
of the screen

10-ft; 4-inch 0.020-slotted, PVC
well screen from 52 to 62 -ft bgs

Total Depth (TD) = 62 feet bgs



ISPC- CB LANDFILL AREA
DELTA, UTAH

CLW-8 Schematic

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Boring Logs
ISPC
Delta, Utah

CL-W-9

Interval (feet)	Drilling Method	USCS	Sample Description
03/24/2018 - 03/25/2018			
0-1	8" Sonic	MW	Sandy silt
1-3.5	8" Sonic	SW	Sand, silt and gravel
3.5-4.5	8" Sonic	MH	Silt
4.5-7	8" Sonic	SW	Sand, silt and gravel
7-8.5	8" Sonic	SW	Sand and gravel
8.5-11.5	8" Sonic	SP	Sand, fine, dry
11.5-12.5	8" Sonic	SW	Sand and gravel
12.5-17	8" Sonic	SP	Sand, fine, dry
17-21	8" Sonic	SP	Sand, fine, dry
21-21.5	8" Sonic	CH	Clay, gray
21.5-22.5	8" Sonic	SP	Fine, sand, dry
22.5-27	8" Sonic	CH	Silty clay, red mottling in silt zones
27-37	8" Sonic	CH	Fat clay, firm, moist
37-38.5	8" Sonic	CH	Fat clay, firm moist
			38.5→ 47 drop out of cole barrel
38.5-49	8" Sonic	CH	Fat clay, firm, moist
49-55	8" Sonic	CH	Clay, firm; moist, gray
55-57	8" Sonic	CH	Silty clay, gray with black silt mottling
57-61	8" Sonic	CH	Silty clay, saturated
61-67	8" Sonic	CH	Clay, firm, moist
67-68.5	8" Sonic	MH	Silt, wet
68.5-75	8" Sonic	CH	Silty clay, moist
75-76	8" Sonic	MH	Silty, moist
76-77	8" Sonic	CH	Silty clay
77-78.5	8" Sonic	MH	Clay, firm, moist
78.5-84	8" Sonic	CH	Silty clay, moist
84-86.5	8" Sonic	CH	Clay, moist
86.5-87	8" Sonic	SP	Sand, coarse, saturated
87-89	8" Sonic	SP	Sandy, coarse, saturated
89-90	8" Sonic	CH	Silty clay
90-96.5	8" Sonic	MH	Silt with clay stringers, saturated
96.5-97	8" Sonic	CH	Clay

TD = 99; PVC sump 99 to 97; screen 97-87; sand 97-62 centralizers 87.5 and 96.5

Drilling Company - Cascade Drilling
Driller - David Donnelly
Geologist - Tom Fendler

Flush-mount, Wellhead Protective Vault, 8-inch diameter, steel lid

Ground Surface

Concrete Apron

Borehole:
8-inch diameter,
from 0 to 97-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 0.25 - 87 feet bgs

Cement-Bentonite (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 77-feet bgs

Bentonite medium chips, from 77
to 82 feet bgs

At Time of Drilling, Depth to
Uppermost Ground Water ~ 87 to 92-
feet bgs

Sand Filter Pack:
(16/30 washed silica sand, 97
to 82 feet bgs)

Centralizers placed ~ the bottom
and the top of the well screen.

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 87 to 97 feet bgs

Total Depth (TD) = 97 feet bgs



IPSC – BOTTOM ASH SURFACE IMPOUNDMENT AREA
DELTA, UTAH

Well CL-W-9 Schematic

Date Drawn
10/24/1
8
Last Revision
Date

Design by

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Boring Logs
IPSC
Delta, Utah

CL-U-1

Interval (feet)	Drilling Method	USCS	Sample Description
7/22/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-2	8" Sonic	SP/SM	SAND with silt:
2-2.5	8" Sonic	SM/ML	Silty SAND/Sandy Silt:
2.5-5	8" Sonic	SM	Silty SAND:
5-6	8" Sonic	CL	CLAY:
6-7.5	8" Sonic	SM/ML	Silty SAND/Sandy SILT with clay:
7.5-10	8" Sonic	CH	CLAY:
10-11	8" Sonic		CLAY:
11-12.5	8" Sonic		CLAY:
12.5-13.5	8" Sonic		CLAY:
13.5-15	8" Sonic	ML	Sandy SILT:
15-16.5	8" Sonic	SP/SM	SAND with silt:
16.5-17.5	8" Sonic	SM	Silty SAND:
17.5-20	8" Sonic	SP	SAND:
20-21	8" Sonic		SAND:
21-22	8" Sonic	ML	Sandy SILT:
22-23	8" Sonic	SP	SAND:
23-24	8" Sonic	ML	Sandy SILT:
24-25	8" Sonic	SP	SAND:
25-26	8" Sonic	ML	Sandy SILT:
26-28	8" Sonic		Sandy SILT:
28-30	8" Sonic		SILT with clay:
30-32	8" Sonic		Sandy SILT:
32-34	8" Sonic	SP	SAND:
34-35	8" Sonic	ML	Sandy SILT with clay:
35-40	8" Sonic	CL	CLAY:
40-42	8" Sonic	ML	SILT with clay:
42-45	8" Sonic	CH	CLAY:
45-55	8" Sonic		CLAY:
55-65	8" Sonic		CLAY:
7/23/2015			
65-66.5	8" Sonic	CH	Sandy CLAY:
66.5-67.5	8" Sonic	SP/SM	SAND with silt:
67.5-72.5	8" Sonic		SAND with silt:
72.5-73.5	8" Sonic	SP	SAND:
73.5-75	8" Sonic	SC	Clayey SAND:
75-76.5	8" Sonic	SW	SAND:
76.5-79	8" Sonic	SP	SAND:
79-80	8" Sonic	CH	CLAY:

TD = 80'; PVC 4-inch screen from 68 to 78; PVC 4-inch riser from -2.5 to 68

Drilling Method: Guspech GS24-300RS 8" Rotasonic

Drilling Company - Cascade Drilling

Driller - Daniel Dodge

Geologist - Michael Sauerwein

Above-grade, 5-feet. long, 8-in. dia., steel
Wellhead Protective Monument set in a 2X2
Concrete Pad ~ 2.5-feet. stick-up

Ground Surface

8-inch diameter,
from 0 to 80-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 68 feet below ground surface (bgs)

Cement-Bentonite gel (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 61.5-feet bgs

At Time of Drilling,
Depth to main Groundwater:
~ 66.5-feet bgs

Bentonite medium chips, from
61.5.5 to 66.5 feet bgs

Centralizers - placed at the bottom
and the top of the well screen.

Sand Filter Pack:
16/30 washed silica sand,
1.5-feet above screen
from 66.5 to 80 feet bgs

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 68 to 78 feet bgs

Total Depth (TD) = 80 feet bgs



IPSC – COMBUSTION BYPRODUCT LANDFILL AREA
DELTA, UTAH

Well CL-U-1 Schematic

Date Drawn
7/23/15

Design by

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MS

Scale

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Date

Boring Logs
IPSC
Delta, Utah

CLU-2

Interval (feet)	Drilling Method	Sample Description
		7/22/2015
0-6	8" Sonic	Light Brown fine grained SAND with silt, dry
6-7.5	8" Sonic	Light Brown to Tan CLAY with silt, slightly moist
7.5-13	8" Sonic	Light Brown fine grained SAND with silt, dry
13-16	8" Sonic	Brown fine grained SAND with clayey matrix, slightly moist, some plasticity
16-24	8" Sonic	Light Brown fine grained SAND, dry
24-35	8" Sonic	Light Brown clayey SILT, dry
35-44	8" Sonic	Light Brown Silty CLAY, dry, good plasticity
44-48	8" Sonic	Gray Clayey SILT, dry, slightly plastic
48-49	8" Sonic	Brownish Orange CLAY, with a silty matrix, dry, good plasticity
49-60	8" Sonic	Brownish Orange CLAY, slightly moist
	8" Sonic	53-55 soil becomes slightly moist and Iron Oxide present
	8" Sonic	57-61 soil is dry
61-67	8" Sonic	Brownish Gray CLAY, at 61 feet very moist, very plastic
67-70	8" Sonic	Gray CLAY, moist, very plastic
70-75	8" Sonic	Gray fine to medium grained SAND, saturated, nonplastic
75-77	8" Sonic	Greenish Gray to Brown Clay fine grained SAND with a CLAY matrix, saturated
77-80	8" Sonic	Brownish Gray, fine to medium grained SAND, saturated

TD = 80; PVC 4-inch screen from 70 to 80; PVC 4-inch riser from -2.5 to 70

Drilling Company - Cascade Drilling
Driller - Rick Mallett
Geologist - Thomas Hedrick

Above-grade, 5-feet. long, 8-in. dia., steel
Wellhead Protective Monument
~ 2.5-feet. stick-up

Ground Surface

4-inch Diameter, Sch. 40 PVC
Well Casing
from ~ 2.0 - 80 feet bgs

Cement-Bentonite (~ 10:1)
Grout, Tremie-Pipe Slurry
from 0 to 63-feet below
ground surface (bgs)

8-inch boring from
0 to 80-feet bgs

Medium bentonite chips
From 63 to 67 feet bgs)

Sand Filter Pack
(16/30 washed, silica sand,
3 feet above screen
from 67 to 80 feet bgs)

At Time of Drilling, Depth to Uppermost
Ground Water ~ 70-fbgs

Centralizers placed ~ the
bottom and the top of the
well screen

10-feet; 4-inch 0.020-slotted,
PVC well screen from 70 to 80-feet
bgs

Total Depth (TD) = 80 feet bgs



IPSC- CB LANDFILL AREA
DELTA, UTAH

Well CLU-2 Schematic

Date Drawn
9/1/15

Design by

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Scale

Last Revision
Date

Boring Logs

ISPC

Delta, Utah

CL-U-3

Interval (feet)	Drilling Method	USCS	Sample Description
3/26/2018			
0-2	8" Sonic	SW	Sand, silt and clay
2-14	8" Sonic	SP	Sand, poorly graded, dry
14-17	8" Sonic	MH	Silt, dry
17-18	8" Sonic	MH	Silt with trace clay, dry
18-27.5	8" Sonic	MH	Silt, dry
27.5-37	8" Sonic	CH	Clay, silt stringers every 3-10", red mottling, moist
37-48	8" Sonic	CH	Clay, distance between silt stringers increasing to 10-18"
48-57	8" Sonic	CH	Clay, massively bedded
57-64	8" Sonic	CH	Clay, massively bedded
64-65	8" Sonic	SP	Sand, medium-grain, saturated
65-66	8" Sonic	MH	Silt, saturated
66-67	8" Sonic	SP	Sand, saturated
67-74	8" Sonic	SP	Sand, saturated
74-75	8" Sonic	CH	Clay
75-77	8" Sonic	SP	Sand, saturated

TD = 77; screen 67-77; sand 62-7; plug 57-62; grout to surface; centralizers 66.5 and 76.5

Drilling Method: Sonic

Drilling Company - Cascade Drilling

Driller - David Donnely

Geologist - Tom Fendler

Flush-mount, Wellhead Protective Vault, 8-inch diameter, steel lid

Ground Surface

Concrete Apron

Borehole:
8-inch diameter,
from 0 to 77-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 0.25 - 67 feet bgs

Cement-Bentonite (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 57-feet bgs

Bentonite medium chips, from 57
to 62 feet bgs

At Time of Drilling, Depth to
Uppermost Ground Water ~ 65 to 70-
feet bgs

Centralizers placed ~ the bottom
and the top of the well screen.

Sand Filter Pack:
(16/30 washed silica sand,
2-feet above screen
from 62 to 77 feet bgs)

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 67 to 77 feet bgs

Total Depth (TD) = 77 feet bgs



IPSC – BOTTOM ASH SURFACE IMPOUNDMENT AREA
DELTA, UTAH

Well CL-U-3 Schematic

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Last Revision
Date

Design by

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Boring Logs
ISPC
Delta, Utah

BAC-1

Interval (feet)	Drilling Method	USCS	Sample Description
7/31/2015			
0-0.75	8" Sonic	Concrete	Surface - concrete soil mixture
0.75-2.5	8" Sonic	SM	Silty SAND:
2.5-3.25	8" Sonic		Silty SAND:
3.25-5	8" Sonic		SAND with silt:
5-12.5	8" Sonic	SP/SM	SAND with silt:
12.5-13.5	8" Sonic		SAND with silt:
13.5-14.5	8" Sonic	ML	Sandy SILT:
14.5-15	8" Sonic		Sandy SILT:
15-17.5	8" Sonic	SP	SAND:
17.5-19	8" Sonic	SP/SW	SAND:
19-20	8" Sonic	SP/SM	SAND with silt:
20-21.5	8" Sonic	SP	SAND:
21.5-22.5	8" Sonic	ML	Sandy SILT:
22.5-24	8" Sonic		Sandy SILT:
24-25	8" Sonic	SP	SAND:
25-26.75	8" Sonic	SM	Silty SAND:
26.75-27.5	8" Sonic	SP	SAND:
27.5-28.5	8" Sonic		SAND:
28.5-30	8" Sonic	SM	Silty SAND:
30-31.5	8" Sonic	SP	SAND:
31.5-32.25	8" Sonic	SM	Silty SAND:
32.25-33.75	8" Sonic	SP/SM	SAND with silt:
33.75-35	8" Sonic	SM	Silty SAND:
35-36	8" Sonic	SP/SM	SAND with silt:
36-37.5	8" Sonic	SM	Silty SAND:
37.5-38	8" Sonic	SP/SM	SAND with silt:
38-38.5	8" Sonic	SM	Silty SAND:
38.5-40	8" Sonic	ML	Sandy SILT:
40-42.5	8" Sonic	SC	Clayey SAND:
42.5-43.5	8" Sonic	CL	Sandy CLAY:
43.5-44.5	8" Sonic		Sandy CLAY:
44.5-45	8" Sonic		Sandy CLAY:
45-46	8" Sonic		Sandy CLAY:
46-47	8" Sonic	CH	Sandy CLAY:
47-47.75	8" Sonic		SAND:
47.75-48.5	8" Sonic		Sandy CLAY:
48.5-50	8" Sonic		Sandy CLAY:
50-51.5	8" Sonic		CLAY:
51.5-53.5	8" Sonic		Sandy CLAY:
53.5-56	8" Sonic		CLAY:
56-57.5	8" Sonic		Sandy CLAY:
57.5-58	8" Sonic	SC	Clayey SAND:
58-59.5	8" Sonic	CH	CLAY:
59.5-60	8" Sonic	SC	Clayey SAND:
60-64.5	8" Sonic	SM	Silty SAND with clay:
64.5-65.5	8" Sonic	SC	Clayey SAND:
65.5-67.5	8" Sonic	SP	SAND:
67.5-70	8" Sonic	SW	SAND:

TD = 70'; PVC 4-inch screen from 60 to 70; PVC 4-inch riser from 0 to 60
Drilling Method: Guspech GS24-300RS, 8" Rotasonic

Drilling Company - Cascade Drilling
Driller - Daniel Dodge
Geologist - Michael Sauerwein

Flush-mount, Wellhead Protective Vault, 8-inch diameter, steel lid

Ground Surface

Concrete Apron

Borehole:
8-inch diameter,
from 0 to 70-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 0.25 - 60 feet bgs

Cement-Bentonite (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 53-feet bgs

Bentonite medium chips, from 53
to 58 feet bgs

At Time of Drilling, Depth to
Uppermost Ground Water ~ 60-feet
bgs

Centralizers placed ~ the bottom
and the top of the well screen.

Sand Filter Pack:
(16/30 washed silica sand,
2-feet above screen
from 58 to 70 feet bgs)

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 60 to 70 feet bgs

Total Depth (TD) = 70 feet bgs



IPSC – BOTTOM ASH SURFACE IMPOUNDMENT AREA
DELTA, UTAH

Well BAC-1 Schematic

Date Drawn
7/31/15

Design by

Drawn by

MS

Scale

Last Revision
Date

Boring Logs
IPSC
Delta, Utah

BAC-2

Interval (feet)	Drilling Method	Sample Description
		7/29/2015
0-6	8" Sonic	Light Brown fine grained Sand, gravels, dry
6-12	8" Sonic	Light Brown fine grained SAND, moist
12-18	8" Sonic	Light Brown fine to medium grained sand, dry
18-23	8" Sonic	Light Brown fine to medium grained sand, with a clay matrix, dry
23-24	8" Sonic	Light Brown fine to medium grained sand, very moist, trace amount of clay
24-26	8" Sonic	Brown fine to medium grained sand, slightly moist
26-30	8" Sonic	Brown fine to medium grained sand, with gravels present, slightly moist
30-33	8" Sonic	Light Brown fine grained sand, slightly moist
33-34	8" Sonic	Light Brown CLAY, very moist, high plasticity
34-36	8" Sonic	Light Brown fine grained sand, with a clay matrix, moist
36-38	8" Sonic	Light Brown Silty CLAY, moderately plastic, slightly moist
38-40	8" Sonic	Brownish Red silty CLAY, good plasticity, slightly moist
40-41	8" Sonic	Brown fine grained SAND, saturated
41-42	8" Sonic	Brown SILT with a clay matrix, slightly moist
42-52	8" Sonic	Reddish brown CLAY, high plasticity, dry to slightly moist
52-55	8" Sonic	Reddish brown CLAY, high plasticity, dry to slightly moist, very dense
55-56	8" Sonic	Brown fine grained SAND with a clay matrix very moist to saturated
56-57	8" Sonic	Reddish brown CLAY, high plasticity, slightly moist to moist
57-65	8" Sonic	Brown fine grained SAND with a clay matrix, saturated

TD = 65; PVC 4-inch screen from 55 to 65; PVC 4-inch riser from -2.5 to 55

Drilling Company - Cascade Drilling
Driller - Rick Mallett
Geologist - Thomas Hedrick

Above-grade, 5-feet. long, 6-in. dia., steel
Wellhead Protective Monument
~ 2.5-feet. stick-up

Ground Surface

4-inch Diameter, Sch 40 PVC
Well Casing from -2.0 - 65 feet

Cement-Bentonite (~ 10:1) Grout,
Tremie-Pipe Slurry from 0 to 48-feet
below ground surface (bgs)

8-inch boring from 0 to
65-feet bgs

Medium bentonite chips
From 48 to 52 feet bgs

Sand Filter Pack
(16/30 washed, silica sand,
3 feet above screen
from 52 to 65 feet bgs)

At Time of Drilling, Depth to
Uppermost Ground Water ~ 56-
feet bgs

Centralizers - placed at
the bottom and at the top
of the screen

10-feet; 4-inch 0.020-slotted, PVC
well screen from 55 to 65 -feet bgs

Total Depth (TD) = 65 feet bgs



IPSC – BOTTOM ASH SURFACE IMPOUNDMENT
DELTA, UTAH

BAC-2 Schematic

Date Drawn
9/1/15

Design by

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Last Revision
Date

Boring Logs

IPSC

Delta, Utah

BAC-3

Interval (feet)	Drilling Method	Sample Description
		7/28/2015
0-8.5	8" Sonic	Light Brown fine grained Sand, dry
8.5-11	8" Sonic	Light Brown fine to medium grained SAND, moist
11-14	8" Sonic	Light Brown fine grained sand, with a clay matrix, dry
14-17	8" Sonic	Gravels with fine to medium grained SAND, slightly moist
17-20	8" Sonic	Brown fine grained sand, slightly moist
20-22	8" Sonic	Brown fine to medium grained sand, with a clay matrix, slightly moist
22-26	8" Sonic	Brown fine to medium grained sand, with a clay matrix, moist
26-30	8" Sonic	Brown fine grained sand, moist
30-43	8" Sonic	Light Brown CLAY, slightly moist to moist, high plasticity
		30-33 Silty CLAY, poor plasticity
		33-35 Silty CLAY, moderately plastic
		35-43 very little silt present, high plasticity
43-45	8" Sonic	Transitioned to a Reddish Brown CLAY, dry, high plasticity
45-50	8" Sonic	Transitioned to a Brown CLAY, dry, high plasticity
50-55	8" Sonic	Light Brown CLAY, moist, high plasticity
55-58	8" Sonic	Light Brown fine grained SAND, with a clay matrix, slightly moist to moist
58-72	8" Sonic	Light Brown CLAY, with a sandy matrix medium to poor plasticity, moist

TD = 72; PVC 4-inch screen from 52 to 72; PVC 4-inch riser from -2.5 to 52

Drilling Company - Cascade Drilling

Driller - Rick Mallett

Geologist - Thomas Hedrick

Above-grade, 5-feet. long, 6-in. dia., steel
Wellhead Protective Monument
~ 2.5-feet. stick-up

Ground Surface

4-inch Diameter, Sch 40 PVC
Well Casing from -2.0 - 72 feet

Cement-Bentonite (~ 10:1) Grout,
Tremie-Pipe Slurry from 0 to 45-feet
below ground surface (bgs)

8-inch boring from 0 to
72-feet bgs

Medium bentonite chips
From 45 to 49 feet bgs

Sand Filter Pack
(16/30 washed, silica sand,
3 feet above screen
from 49 to 72 feet bgs)

At Time of Drilling, Depth to
Uppermost Ground Water ~ 55-
feet bgs

Centralizers - placed at
the bottom and at the top
of the screen

10-feet; 4-inch 0.020-slotted, PVC
well screen from 52 to 72 -feet bgs

Total Depth (TD) = 72 feet bgs



ISPC- BOTTOM ASH SURFACE IMPOUNDMENT
DELTA, UTAH

BAC-3 Schematic

Date Drawn
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Design by

Drawn by

TH

Scale

Last Revision
Date

BAC-4

Interval (feet)	Drilling Method	USCS	Sample Description
8/10/2015			
0-0.5	8' Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-2.5	8' Sonic	SP/SM	SAND with silt:
2.5-5	8' Sonic	SP	SAND:
5-9	8' Sonic		SAND:
9-10	8' Sonic	SP/SM	SAND with silt:
10-15	8' Sonic	SP	SAND:
15-17.5	8' Sonic	SP/SM	SAND with silt:
17.5-19	8' Sonic		SAND with silt:
19-2	8' Sonic	SC	Clayey SAND:
20-21	8' Sonic		Clayey SAND:
21-22	8' Sonic	CL	Sandy CLAY:
22-22.5	8' Sonic	ML	Sandy SILT:
22.5-25	8' Sonic	CL	Sandy CLAY:
25-32.5	8' Sonic	CH	CLAY:
32.5-33.75	8' Sonic	SP	SAND:
33.75-35	8' Sonic	SM	Silty SAND:
35-36.5	8' Sonic	SP/SM	SAND with silt:
36.5-37.5	8' Sonic		SAND with silt:
37.5-38	8' Sonic	SM	Silty SAND:
38-38.75	8' Sonic	CH	Sandy CLAY:
38.75-39	8' Sonic	SP/SM	SAND with silt:
39-40	8' Sonic	CH	Sandy CLAY:
40-42.5	8' Sonic	ML	Sandy SILT with clay:
42.5-43.5	8' Sonic	SM	Silty SAND and clay:
43.5-45	8' Sonic	CH	CLAY:
45-47.5	8' Sonic		CLAY:
47.5-48.5	8' Sonic		CLAY:
48.5-50	8' Sonic	ML	Clayey SILT with sand:
50-51.25	8' Sonic		Clayey SILT:
51.25-52.5	8' Sonic	CH	CLAY:
52.5-55	8' Sonic	SC	Clayey SAND:
55-56.5	8' Sonic	SM	Silty SAND:
56.5-57	8' Sonic	ML	Clayey SILT with sand:
57-57.5	8' Sonic	CH	CLAY:
57.5-58.5	8' Sonic		CLAY:
58.5-59.5	8' Sonic	ML	Clayey SILT with sand:
59.5-61	8' Sonic		Clayey SILT with sand:
61-64	8' Sonic		Clayey SILT with sand:
64-65	8' Sonic		Clayey SILT with sand:
65-65.5	8' Sonic	SM	Silty SAND:
65.5-67	8' Sonic	CL	Silty CLAY:
67-67.5	8' Sonic	ML	Clayey SILT:
67.5-69	8' Sonic	CH	CLAY:
69-69.5	8' Sonic		CLAY:
69.5-70	8' Sonic		CLAY:
70-72.5	8' Sonic	ML	Sandy SILT with clay:
72.5-74	8' Sonic	CH	Silty CLAY:
74-75	8' Sonic	SM	Silty SAND:

TD = 75'; PVC 4-inch screen from 55 to 75; PVC 4-inch riser from -2.5 to 55

Drilling Method: Prosonic T600, 8" Rotasonic

Drilling Company - Cascade Drilling

Driller - Rick Mallett

Geologist - Michael Sauerwein

Above-grade, 5-feet. long, 8-in. dia., steel
Wellhead Protective Monument set in a 2X2
Concrete Pad ~ 2.5-feet. stick-up

Ground Surface

Blank Well Casing Riser:
4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 55 feet below ground surface (bgs)

8-inch diameter,
from 0 to 75-feet bgs

Cement-Bentonite gel (~ 10:1) Grout, Tremie-
Pipe Slurry,
from 0 to 48-feet below ground surface (bgs)

Bentonite medium chips,
from 48 to 53 feet bgs

At Time of Drilling,
Depth to Uppermost Ground
Water ~ 55-feet bgs

Centralizers placed ~ the bottom
and the top of the well screen.

Sand Filter Pack:
(16/30 washed silica sand,
2-feet above screen
from 53 to 75 feet bgs)

20-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 55 to 75 feet bgs

Total Depth (TD) = 75 feet bgs



IPSC – BOTTOM ASH SURFACE IMPOUNDMENT
DELTA, UTAH

Well BAC-4 Schematic

Date Drawn
8/10/15

Design by

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MS

Scale

Last Revision
Date

BAC-5

Interval (feet)	Drilling Method	USCS	Sample Description
8/9/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-2.5	8" Sonic	SP/SM	Gravelly SAND with silt:
2.5-3	8" Sonic	SP	SAND:
3-6.5	8" Sonic		SAND:
6.5-10	8" Sonic		SAND:
10-12.5	8" Sonic		SAND:
12.5-15	8" Sonic	SP/SM	SAND with silt:
15-19	8" Sonic	SM	Silty SAND:
19-19.5	8" Sonic	SC	Clayey SAND:
19.5-20	8" Sonic	SP/SM	SAND with silt:
20-22.5	8" Sonic	CL	Sandy CLAY:
22.5-23.75	8" Sonic		Sandy CLAY:
23.75-25	8" Sonic		Sandy CLAY:
25-27.5	8" Sonic		Sandy CLAY:
27.5-30	8" Sonic		CLAY:
30-32.5	8" Sonic	CL/CH	CLAY:
32.5-33.5	8" Sonic	SP	SAND:
33.5-35	8" Sonic		SAND:
35-36	8" Sonic	SC	Clayey SAND:
36-37.5	8" Sonic	ML	Sandy SILT:
37.5-38.5	8" Sonic		Sandy SILT:
38.5-40	8" Sonic	SM	Silty SAND with clay:
40-42.5	8" Sonic		Silty SAND:
42.5-44.25	8" Sonic		Silty SAND with clay:
44.25-45	8" Sonic	CH	CLAY:
45-46.5	8" Sonic		CLAY:
46.5-47.5	8" Sonic		CLAY:
47.5-49	8" Sonic		CLAY:
49-50.75	8" Sonic	SM	Silty SAND:
50.75-52.5	8" Sonic	CH	CLAY:
52.5-53.5	8" Sonic		CLAY:
53.5-55.5	8" Sonic	SP	SAND:
55.5-57.5	8" Sonic	CH	CLAY:
57.5-59	8" Sonic		CLAY:
59-60	8" Sonic	SM	Silty SAND with clay:
60-62.5	8" Sonic	SP	SAND:
62.5-63	8" Sonic	SC	Clayey SAND:
63-65	8" Sonic	SP	SAND:
65-65.75	8" Sonic	SC	Clayey SAND:
65.75-66.5	8" Sonic	CH	CLAY:
66.5-67.5	8" Sonic	SC	Clayey SAND:
67.5-69	8" Sonic	CH	CLAY:
69-70	8" Sonic		CLAY:

TD = 70'; PVC 4-inch screen from 58 to 68; PVC 4-inch riser from -2.5 to 58

Drilling Method: Prosonic T600, 8" Rotosonic

Drilling Company - Cascade Drilling

Driller - Rick Mallett

Geologist - Michael Sauerwein

Above-grade, 5-feet. long, 8-in. dia., steel
Wellhead Protective Monument set in a 2X2
Concrete Pad ~ 2.5-feet. stick-up

Ground Surface

8-inch diameter,
from 0 to 70-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 58 feet below ground surface (bgs)

Cement-Bentonite gel (~ 10:1) Grout,
Tremie-Pipe Slurry, from 1 to 51-feet
bgs

Bentonite medium chips,
from 51 to 56 feet bgs

At Time of Drilling,
Depth to Uppermost
Ground Water ~ 59-feet bgs

Centralizers placed ~ the bottom
and the top of the well screen.

Sand Filter Pack
(16/30 washed silica sand,
2-feet above screen
from 56 to 70 feet bgs)

Well Screen:
10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 58 to 68 feet bgs

Total Depth (TD) = 70 feet bgs



IPSC – BOTTOM ASH SURFACE IMPOUNDMENT
DELTA, UTAH

Well BAC-5 Schematic

Date Drawn
8/09/15

Design by

Drawn by

MS

Scale

Last Revision
Date

Boring Logs
ISPC
Delta, Utah

BAC-6

Interval (feet)	Drilling Method	USCS	Sample Description
8/8/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-2.5	8" Sonic	SP/SM	Gravelly SAND with silt:
2.5-5	8" Sonic	SP	SAND:
5-6.5	8" Sonic	SP/SM	SAND with silt:
6.5-7.5	8" Sonic	SP	SAND:
7.5-10	8" Sonic		SAND:
10-13.5	8" Sonic		SAND:
13.5-15	8" Sonic	SM	Silty SAND:
15-16	8" Sonic	SP	SAND:
16-17.5	8" Sonic	SM	Silty SAND:
17.5-18.25	8" Sonic	SP/SM	SAND with silt:
18.25-18.75	8" Sonic	CL	Sandy CLAY:
18.75-20	8" Sonic	SC	Clayey SAND:
20-21.5	8" Sonic	CH	Sandy CLAY:
21.5-23	8" Sonic	SM	Silty SAND:
23-25	8" Sonic	CL	CLAY:
25-27.5	8" Sonic	CH	CLAY:
27.5-30	8" Sonic		CLAY:
30-32.5	8" Sonic		CLAY:
32.5-33.5	8" Sonic		CLAY:
33.5-35	8" Sonic	SW	SAND:
35-36	8" Sonic	SM	Silty SAND:
36-37.5	8" Sonic	SP/SM	SAND with silt:
37.5-38.5	8" Sonic	CH	CLAY:
38.5-40	8" Sonic	SM	Silty SAND with clay:
40-42.5	8" Sonic		Silty SAND:
42.5-43.5	8" Sonic	CH	Sandy CLAY:
43.5-45	8" Sonic		CLAY:
45-45.5	8" Sonic	SC	Clayey SAND:
45.5-47.5	8" Sonic	CH	CLAY:
47.5-48	8" Sonic	SP	SAND:
48-49.5	8" Sonic	SM	Silty SAND with clay:
49.5-50	8" Sonic	CH	Sandy CLAY:
50-52.5	8" Sonic		CLAY:
52.5-55	8" Sonic		CLAY:
55-56	8" Sonic	SM	Silty SAND:
56-60	8" Sonic	SW	SAND:
60-61	8" Sonic		SAND:
61-62.5	8" Sonic	CH	Sandy CLAY:
62.5-63.5	8" Sonic		CLAY:
63.5-65	8" Sonic	SC	Clayey SAND:

TD = 65; PVC 4-inch screen from 55 to 65; PVC 4-inch riser from -2.5 to 55
Drilling Method: Guspech GS24-300RS, 8" Rotasonic

Drilling Company - Cascade Drilling
Driller - Daniel Dodge
Geologist - Michael Sauerwein

Above-grade, 5-feet. long, 8-in. dia., steel
Wellhead Protective Monument set in a 2X2
Concrete Pad ~ 2.5-feet. stick-up

Ground Surface

8-inch diameter,
from 0 to 65-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 55 feet below ground surface (bgs)

Cement-Bentonite gel (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 1 to 48-feet bgs

At Time of Drilling,
Depth to Uppermost
Ground Water ~ 55-feet bgs

Bentonite medium chips, hydrated
5-foot length;
from 48 to 53 feet bgs

Centralizers placed ~ the bottom
and the top of the well screen.

Sand Filter Pack:
16/30 washed silica sand,
2-feet above screen
from 53 to 65 feet bgs

10-foot; 4-inch 0.0200 Slotted, PVC well
screen from 55 to 65 feet bgs

Total Depth (TD) = 65 feet bgs



IPSC – BOTTOM ASH SURFACE IMPOUNDMENT
DELTA, UTAH

Well BAC-6 Schematic

Date Drawn
8/08/15

Design by

Drawn by

MS

Scale

Last Revision
Date

BAC-7

Interval (feet)	Drilling Method	USCS	Sample Description
8/7/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-2	8" Sonic	SP/SM	Gravelly SAND:
2-2.5	8" Sonic	SP	Gravelly SAND:
2.5-5	8" Sonic		SAND:
5-7	8" Sonic		SAND:
7-8.5	8" Sonic		SAND:
8.5-9	8" Sonic	SP/SM	SAND with silt:
9-9.5	8" Sonic	SP	SAND:
9.5-11	8" Sonic	SP/SM	SAND with silt:
11-13	8" Sonic		SAND with silt:
13-17	8" Sonic	SM	Silty SAND:
17-18.5	8" Sonic		Silty SAND:
18.5-19	8" Sonic	ML	Sandy SILT:
19-20.25	8" Sonic	SP/SM	SAND with silt:
20.25-22	8" Sonic	CL	Sandy CLAY:
22-24	8" Sonic		Sandy CLAY:
24-25	8" Sonic	SC	Clayey SAND:
25-27.5	8" Sonic	CH	CLAY:
27.5-36.5	8" Sonic		CLAY:
36.5-40	8" Sonic	SP	SAND:
40-41.25	8" Sonic		SAND:
41.25-43.75	8" Sonic	SP/SM	SAND with silt:
43.75-45	8" Sonic	CH	CLAY:
45-47.5	8" Sonic		CLAY:
47.5-49	8" Sonic		CLAY:
49-50	8" Sonic	SM	Silty SAND:
50-57.5	8" Sonic	CH	CLAY:
57.5-60	8" Sonic	SW	SAND:
60-62.5	8" Sonic		SAND:
62.5-64	8" Sonic	SP	SAND:
64-65	8" Sonic	CH	CLAY:
65-66.25	8" Sonic		Sandy CLAY:
66.25-67.5	8" Sonic		CLAY:
67.5-70	8" Sonic		CLAY:

TD = 70'; PVC 4-inch screen from 57 to 67; PVC 4-inch riser from -2.5 to 57

Drilling Method: Guspech GS24-300RS, 8" Rotasonic

Drilling Company - Cascade Drilling

Driller - Daniel Dodge

Geologist - Michael Sauerwein

Above-grade, 5-feet. long, 8-in. dia., steel
Wellhead Protective Monument set in a 2X2
Concrete Pad ~ 2.5-feet. stick-up

Ground Surface

8-inch diameter,
from 0 to 70-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 57 feet below ground surface (bgs)

Cement-Bentonite gel (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 50-feet bgs

Bentonite medium chips, from 50
to 55 feet bgs

At Time of Drilling,
Depth to Uppermost Ground Water
~ 57.5-feet bgs

Centralizers placed ~ the bottom
and the top of the well screen.

16/30 washed silica sand,
2-feet above screen
from 55 to 70 feet bgs

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 57 to 67 feet bgs

Total Depth (TD) = 70 feet bgs



IPSC – BOTTOM ASH SURFACE IMPOUNDMENT
DELTA, UTAH

Well BAC-7 Schematic

Date Drawn
8/07/15

Design by

Drawn by

MS

Scale

Last Revision
Date



Project Name: Intermountain Power Service Corporation

Boring Monitor Well: BAC-8

Project No.: 203709098

Completion Date: 2019-04-29

Drilling Firm: Cascade

Boring Method: Sonic

Boring Diameter: 10 inches

Driller: Ryan Miller

Logged by: Rich Pratt

Depth to Water at Drilling: 67 feet

Depth to Water at Drilling (static at 24 hours):
45.59 feet

BAC-8

Interval (feet)	Description
0 - 1	Light brown fine-grained sand with clay, dry
1 - 13	Light brown clay with silt, dry
13 - 17	Light brown fine-grained sand with clay, dry
17 - 18	Light brown clay with sand, moist
18 - 19	Medium brown sand, saturated
19 - 21	Light brown clay with sand, moist
21 - 27	Light brown clay with sand, dry
27 - 28	Brown with red clay, moist
28 - 31	Brown clay, moist
31 - 34	Gray clay, moist
34 - 43	Brown clay, moist
43 - 56	Medium brown medium-grained sand, moist
56 - 56.5	Medium brown medium-grained sand with pebbles, moist
56.5 - 57	Medium brown medium-grained sand, moist
57 - 63	Brown clay, moist
63 - 65	Medium brown fine-grained sand, moist
65 - 66.5	Brown clay, moist
66.5 - 67	Medium brown fine-grained sand, moist
67 - 68	Medium brown fine-grained sand, saturated
68 - 69.5	Medium brown fine-grained sand
69.5 - 77	Red and brown clay

Well Completion materials and Depth Intervals (feet) Below Ground Surface

Surface Completion: Stick-up

Casing, solid (6-inch PVC): 0-52.62 feet

Screen (6 inch, 0.02 slotted, PVC): 52.62-77.62 feet

Sand Pack: 16/30 sand, 47.62-77.62 feet

Bentonite Seal: Hydrolyzed bentonite pellet seal
40.62-47.62 feet

Top of 6 in. PVC Casing Elevation (Relative Datum Survey): NA

Top of Manhole Cover (Relative Datum Survey):
NA

Top of PVC casing above ground surface ~ 2.38 feet. stick-up

Above-grade, 5-feet. long, 8-in. square, steel Wellhead Protective Monument ~ 3.25 feet. stick-up

Ground Surface

6-inch Diameter, Sch 40 PVC Well Casing from below top of casing - 80 feet

Cement-Bentonite (~ 10:1) Grout, Tremie-Pipe Slurry from 0 to 40.62 feet below ground surface (bgs)

10-inch boring from 0 to 77.62-feet bgs

Medium bentonite chips From 40.62 to 47.62 feet bgs

Sand Filter Pack (16/30 washed, silica sand, 5 feet above screen from 47.62 to 77.62 feet bgs)

At Time of Drilling, Depth to Uppermost Ground Water ~ 67 feet bgs

Centralizers - placed at the bottom and at 25-30 foot intervals

25-feet; 6-inch 0.020-slotted, PVC well screen from 52.62 to 77.62 feet bgs

Total Depth (TD) = 77.62 feet bgs



ISPC BOTTOM ASH SURFACE IMPOUNDMENT
DELTA, UTAH

BAC-8 Schematic

Date Drawn
6-4-19

Design by

Drawn by

RP

Scale

Last Revision
Date



Project Name: Intermountain Power Service Corporation

Boring Monitor Well: BAC-9

Project No.: 203709098

Completion Date: 2019-05-1

Drilling Firm: Cascade

Boring Method: Sonic

Boring Diameter: 10 inches

Driller: Ryan Miller

Logged by: John Russell

Depth to Water at Drilling: 60 feet

Depth to Water at Drilling (static at 24 hours):
44.82 feet

BAC-9

Interval (feet)	Description
0 - 10	Light gray to brown silt with clay to clay with silt, dry
10 - 20	Light gray to brown silt, dry
20 - 30	Light brown silt, dry
30 - 44	Light brown silt, dry
44 - 50	Medium brown clay, dry
50 - 54	Light brown silt to clay with silt, moist
54 - 54.5	Medium brown silt with clay, moist
54.5 - 60	Light brown clay with silt, moist
60 - 77	Medium brown silt with clay and silt stringers, saturated

Well Completion materials and Depth Intervals (feet) Below Ground Surface

Surface Completion: Stick-up

Casing, solid (6-inch PVC): 0-53.11 feet

Screen (6 inch, 0.02 slotted, PVC): 53.11-78.11 feet

Sand Pack: 16/30 sand, 48.11-78.11 feet

Bentonite Seal: Hydrolyzed bentonite pellet seal
41.11-48.11 feet

Top of 6 in. PVC Casing Elevation (Relative Datum Survey): NA

Top of Manhole Cover (Relative Datum Survey):
NA

Top of PVC casing above ground surface ~ 1.98 feet. stick-up

Above-grade, 5-feet. long, 8-in. square, steel Wellhead Protective Monument ~ 2.57 feet. stick-up

Ground Surface

6-inch Diameter, Sch 40 PVC Well Casing from below top of casing - 78.11 feet

Cement-Bentonite (~ 10:1) Grout, Tremie-Pipe Slurry from 0 to 41.11 feet below ground surface (bgs)

10-inch boring from 0 to 78.11-feet bgs

Medium bentonite chips From 41.11 to 48.11 feet bgs

At Time of Drilling, Depth to Uppermost Ground Water ~ 60 feet bgs

Sand Filter Pack (16/30 washed, silica sand, 5 feet above screen from 48.11 to 78.11 feet bgs)

Centralizers - placed at the bottom and at 25-30 foot intervals

25-feet; 6-inch 0.020-slotted, PVC well screen from 53.11 to 78.11 feet bgs

Total Depth (TD) = 78.11 feet bgs



IPSC – BOTTOM ASH SURFACE IMPOUNDMENT
DELTA, UTAH

BAC-9 Schematic

Date Drawn
6-4-19

Design by

Drawn by

RP

Scale

Last Revision
Date



Project Name: Intermountain Power Service Corporation

Boring Monitor Well: BAC-10

Project No.: 203709098

Completion Date: 2019-05-3

Drilling Firm: Cascade

Boring Method: Sonic

Boring Diameter: 10 inches

Driller: Ryan Miller

Logged by: Rich Pratt

Depth to Water at Drilling: 69 feet

Depth to Water at Drilling (static at 24 hours): 63.1 feet

BAC-10

Interval (feet)	Description
0 - 1	Light brown silt, dry
1 - 3	Light brown silt with clay, dry
3 - 14	Light brown clay with silt, dry
14 - 17	Light brown fine-grained sand, dry
17 - 19	Light brown fine-grained sand with clay, moist
19 - 21	Light brown fine-grained sand with clay, moist
21 - 23	Light brown fine-grained sand, moist
23 - 25	Light brown fine-grained sand with clay, moist
25 - 26	Light brown fine-grained sand, moist
26 - 27	Light brown fine-grained sand with clay, moist
27 - 28	Light brown fine-grained sand, moist to moist
27 - 34	Light brown fine-grained sand, moist
34 – 34.5	Light brown silt with clay, dry
34.5 – 40.5	Red brown clay, dry
40.5 - 41	Medium brown medium grained sand, moist to moist
41 - 45	Medium brown clay, moist
45 - 46	Medium brown sand, moist to moist
46 - 48	Medium brown clay, moist
48 – 56.5	Red brown clay, moist
56.5 - 57	Gray clay, moist
57 - 62	Light brown clay, moist to moist
62 - 63	Medium brown medium grained sand, moist
63 - 64	Medium brown medium grained sand with clay, moist
64 - 69	Red, brown, and gray clay, moist
69 – 69.5	Medium brown sand, saturated
69.5 - 77	Red, brown, and gray clay
77 - 79	Medium brown clay with sand
79 - 81	Medium brown clay
81 - 85	Medium brown clay with sand

85 - 87	Medium brown clay, moist
---------	--------------------------

Well Completion materials and Depth Intervals (feet) Below Ground Surface

Surface Completion: Stick-up

Casing, solid (6-inch PVC): 0-62.95 feet

Screen (6 inch, 0.02 slotted, PVC): 62.95-87.95 feet

Sand Pack: 16/30 sand, 57.95-87.95 feet

Bentonite Seal: Hydrolyzed bentonite pellet seal
50.95-57.95 feet

Top of 6 in. PVC Casing Elevation (Relative Datum Survey): NA

Top of Manhole Cover (Relative Datum Survey):
NA

Top of PVC casing above ground surface ~ 2.15 feet. stick-up

Above-grade, 5-feet. long, 8-in. square, steel Wellhead Protective Monument ~ 3.0 feet. stick-up

Ground Surface

6-inch Diameter, Sch 40 PVC Well Casing from below top of casing - 90.10 feet

Cement-Bentonite (~ 10:1) Grout, Tremie-Pipe Slurry from 0 to 50.95 feet below ground surface (bgs)

10-inch boring from 0 to 87.95-feet bgs

Medium bentonite chips From 50.95 to 57.95 feet bgs

At Time of Drilling, Depth to Uppermost Ground Water ~ 69 feet bgs

Sand Filter Pack (16/30 washed, silica sand, 5 feet above screen from 57.95 to 87.95 feet bgs)

Centralizers - placed at the bottom and at 25-30 foot intervals

25-feet; 6-inch 0.020-slotted, PVC well screen from 62.95 to 87.95 feet bgs

Total Depth (TD) = 87.95 feet bgs



IPSC – BOTTOM ASH SURFACE IMPOUNDMENT
DELTA, UTAH

BAC-10 Schematic

Date Drawn
6-4-19

Design by

Drawn by

RP

Scale

Last Revision
Date



MONITORING WELL ID: **BAC-11**

CLIENT Intermountain Power Service Corporation

PROJECT Monitoring Well Installation

SITE LOCATION Southwest of Bottom Ash Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600 11-77287

SAMPLING METHOD: 4 inch sonic core barrel 0 to 91 ft bgs.,
10 inch sonic core barrel 0 to 91 ft bgs.

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

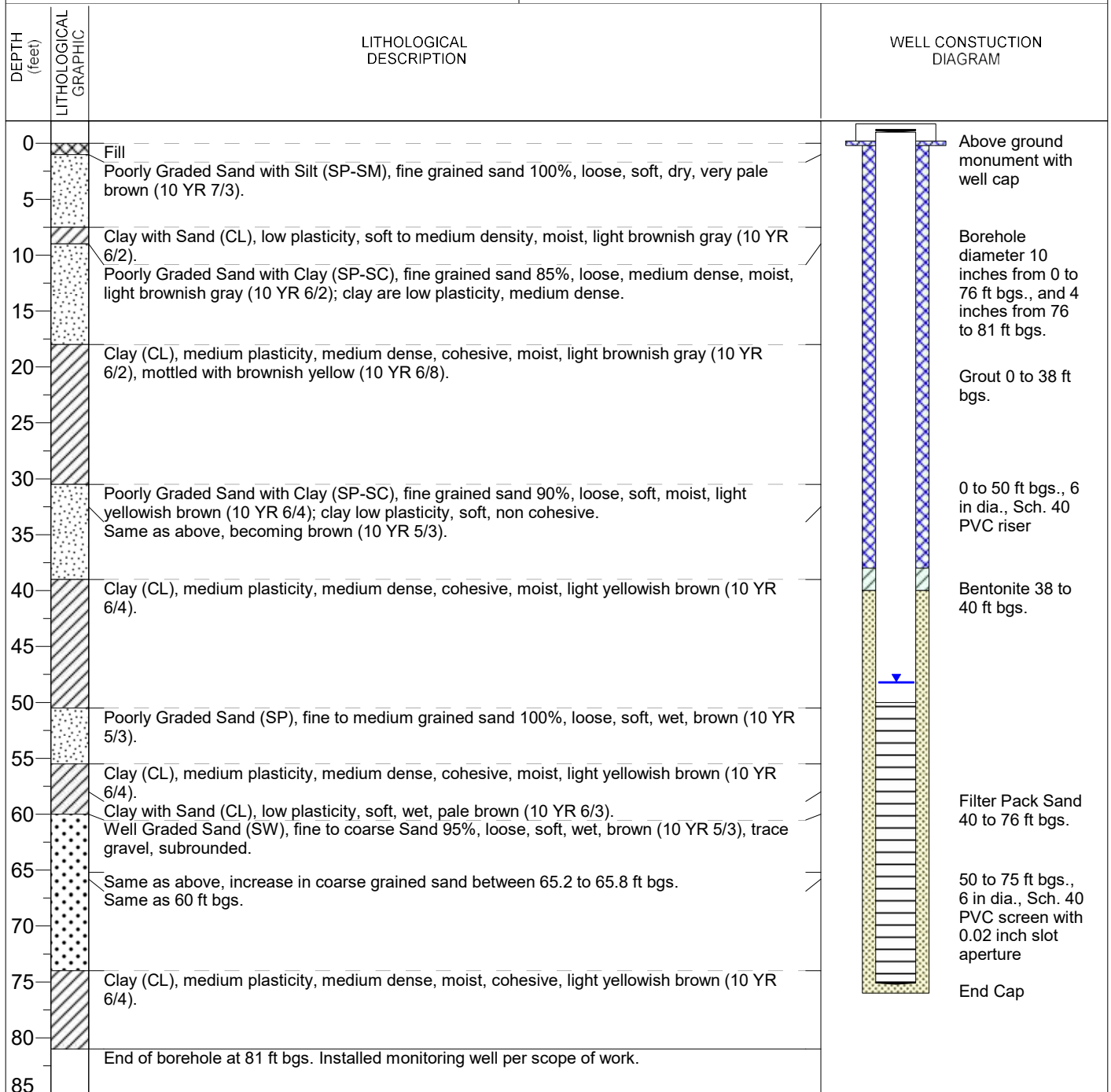
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 81

GROUNDWATER LEVEL (ft. btoc.): 48.21

DATE STARTED: 12/6/2019 DATE FINISHED: 12/7/2019

LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-12**



CLIENT Intermountain Power Service Corporation
PROJECT Monitoring Well Installation
SITE LOCATION Southwest of Bottom Ash Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600 11-77287

SAMPLING METHOD: 4 inch sonic core barrel 0 to 91 ft bgs.,
10 inch sonic core barrel 0 to 91 ft bgs.

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

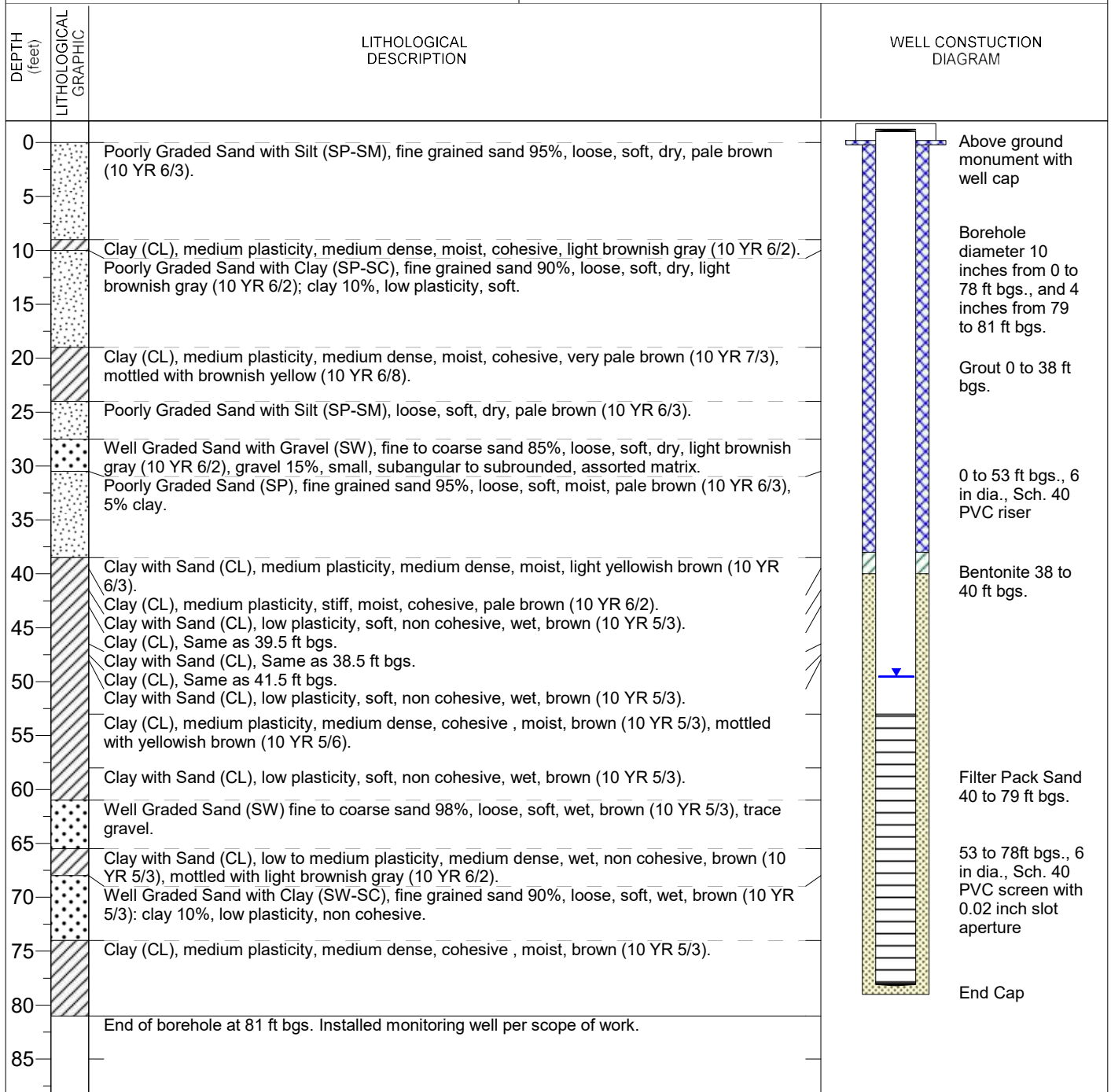
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 81

GROUNDWATER LEVEL (ft. btoc.): 49.55

DATE STARTED: 12/4/2019 DATE FINISHED: 12/6/2019

LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

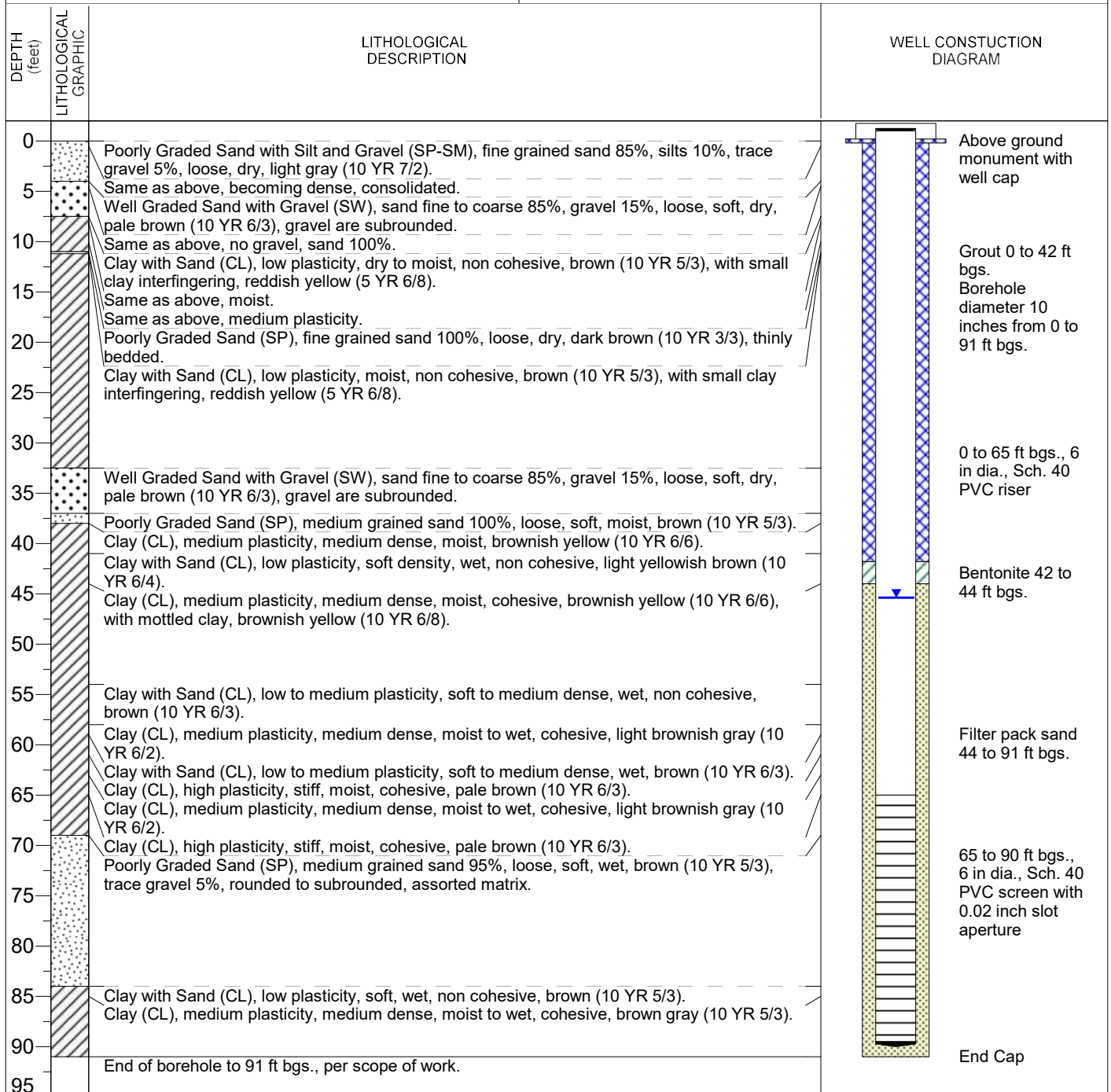
MONITORING WELL ID: **BAC-13**



CLIENT: Intermountain Power Service Corporation
 PROJECT: Monitoring Well Installation
 SITE LOCATION: Southwest of Bottom Ash Basin Surface Impoundment



DRILLING CONTRACTOR:	Cascade Drilling	COORDINATE SYSTEM:	
DRILLING METHOD:	Sonic	EASTING:	NORTHING:
DRILLING EQUIPMENT:	Pro Sonic 600 11-77287	ELEVATION:	BOREHOLE ANGLE: 90 degrees
SAMPLING METHOD:	4 inch sonic core barrel 0 to 91 ft bgs., 10 inch sonic core barrel 0 to 91 ft bgs.	TOTAL DEPTH (ft.): 91	GROUNDWATER LEVEL (ft. btoc.): 45.38
		DATE STARTED: 11/16/2019	DATE FINISHED: 11/18/2019
		LOGGED BY: Michael Ward	



Notes: bgs. = below ground surface Sch. = Schedule
 dia. = diameter YR = Yellow-Red
 ft = feet

MONITORING WELL ID: **BAC-14**

CLIENT Intermountain Power Service Corporation

PROJECT Monitoring Well Installation

SITE LOCATION Southwest of Bottom Ash Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600 11-77287

SAMPLING METHOD: 4 inch sonic core barrel 0 to 81 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

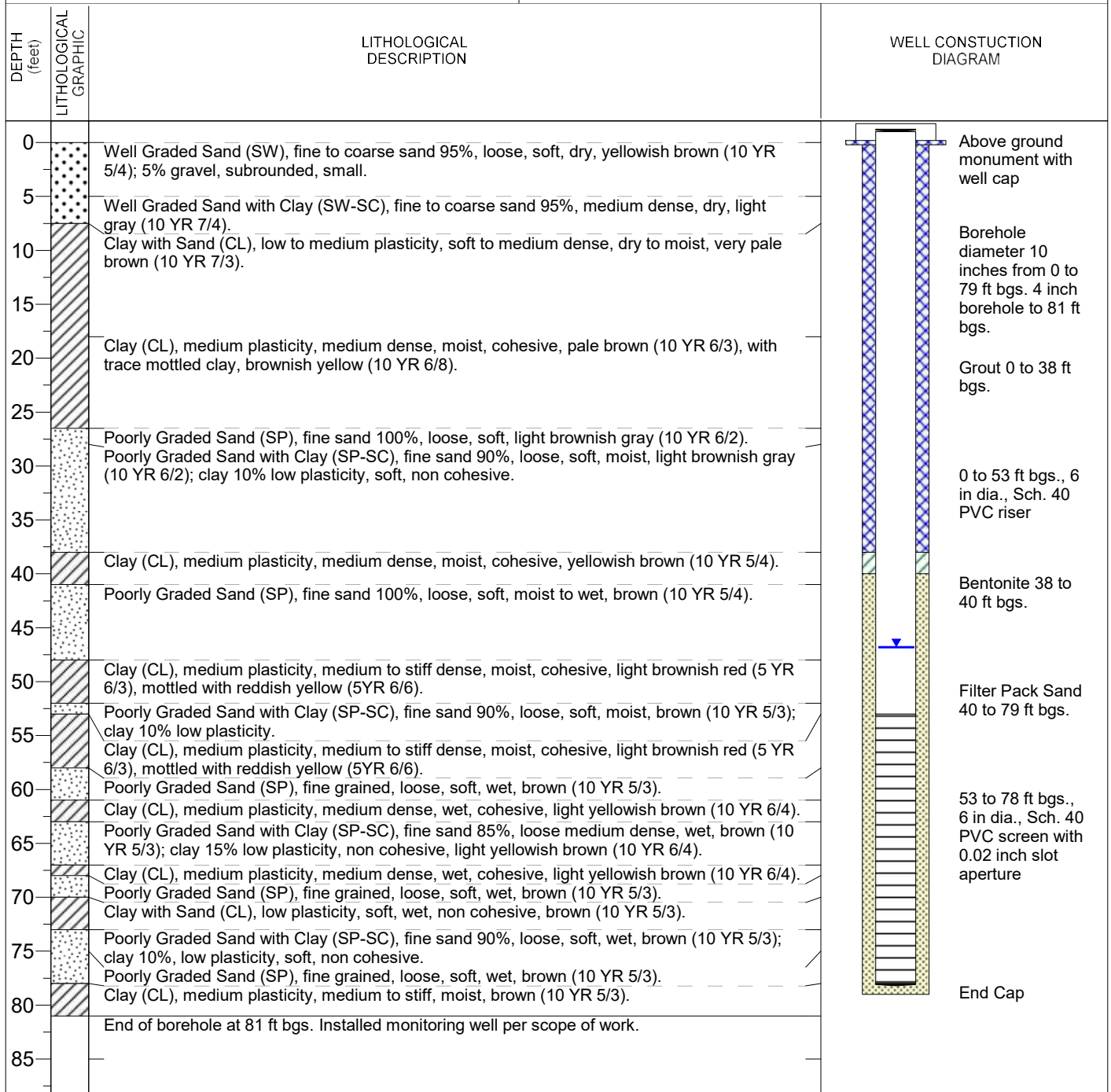
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 81

GROUNDWATER LEVEL (ft. btoc.): 46.81

DATE STARTED: 11/21/2019 DATE FINISHED: 12/4/2019

LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-15**



CLIENT: Intermountain Power Service Corporation
 PROJECT: Monitoring Well Installation
 SITE LOCATION: Southwest of Bottom Ash Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600 11-77287

SAMPLING METHOD: 4 inch sonic core barrel 0 to 91 ft bgs.,
 10 inch sonic core barrel 0 to 91 ft bgs.

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

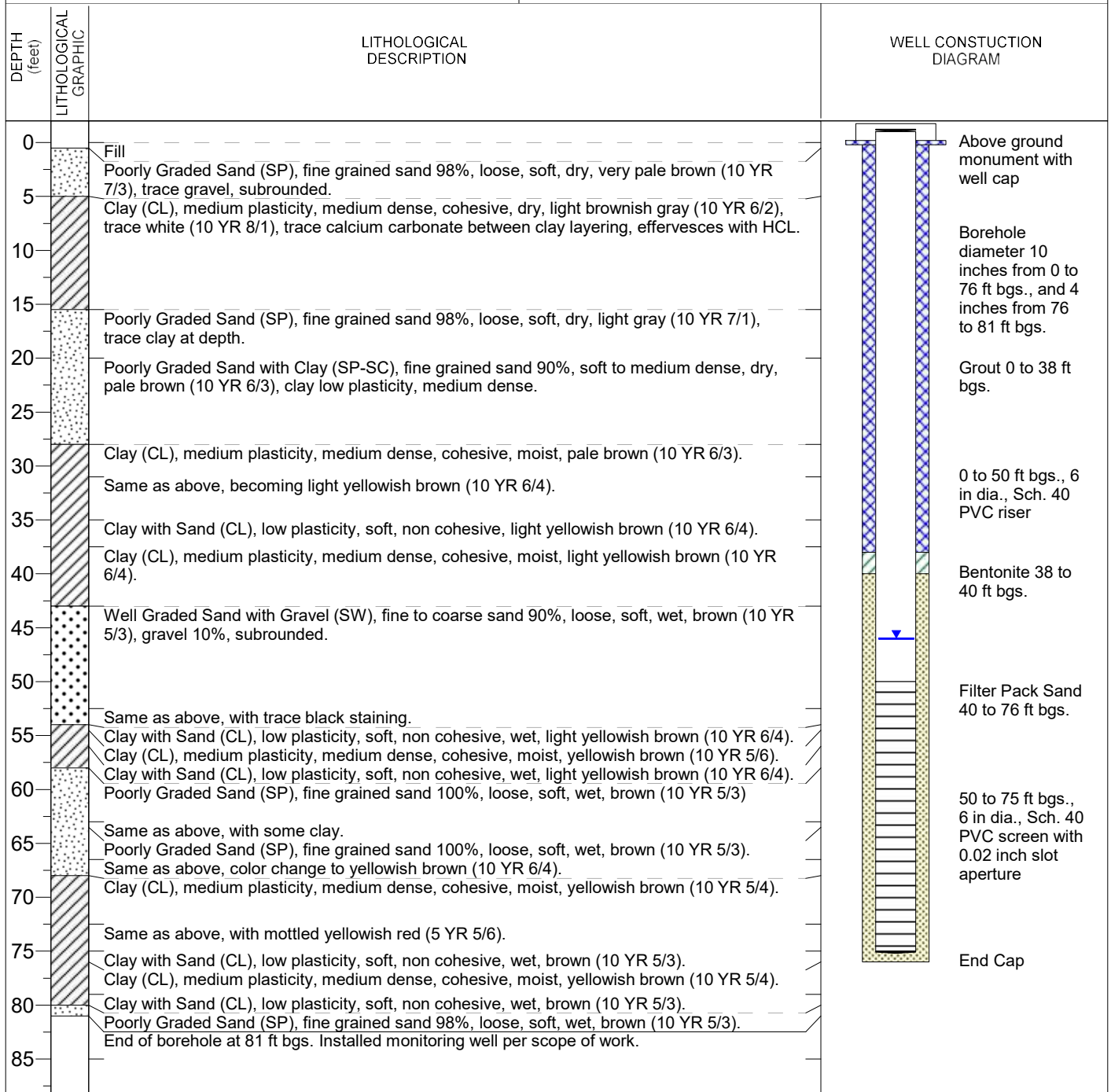
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 81

GROUNDWATER LEVEL (ft. btoc.): 46.03

DATE STARTED: 12/7/2019 DATE FINISHED: 12/9/2019

LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
 dia. = diameter YR = Yellow-Red
 ft = feet

MONITORING WELL ID: **BAC-16**

CLIENT Intermountain Power Service Corporation

PROJECT Monitoring Well Installation

SITE LOCATION Southwest of Bottom Ash Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600 11-77287

SAMPLING METHOD: 4 inch sonic core barrel 0 to 91 ft bgs.,
10 inch sonic core barrel 0 to 91 ft bgs.

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

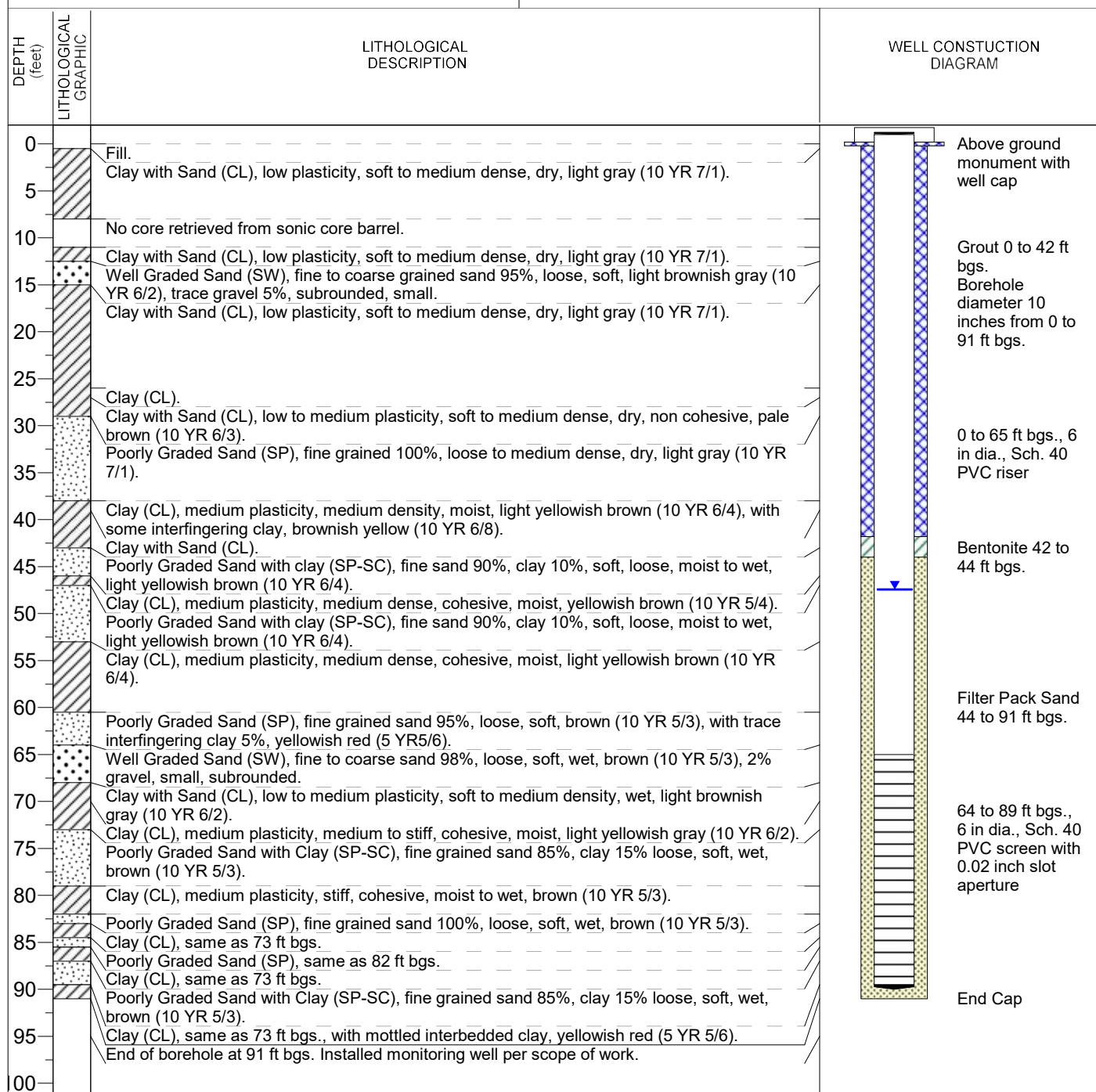
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 91

GROUNDWATER LEVEL (ft. btoc.): 47.45

DATE STARTED: 11/18/2019 DATE FINISHED: 11/21/2019

LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-17**

CLIENT Intermountain Power Service Corporation

PROJECT Monitoring Well Installation

SITE LOCATION Southwest of Bottom Ash Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600 11-77287

SAMPLING METHOD: 4 inch sonic core barrel 0 to 91 ft bgs.,
10 inch sonic core barrel 0 to 91 ft bgs.

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

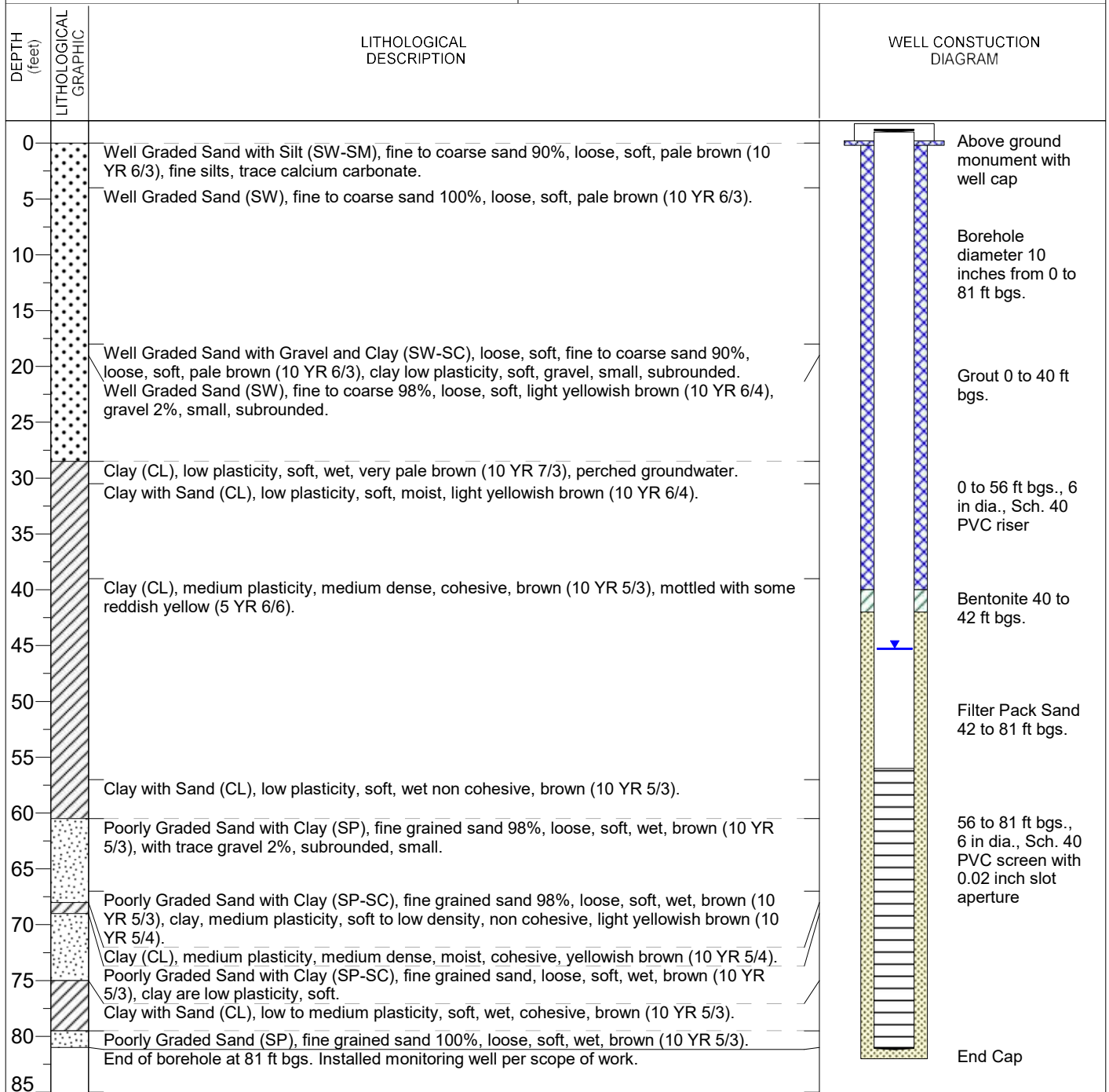
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 82

GROUNDWATER LEVEL (ft. btoc.): 45.3

DATE STARTED: 12/12/9/2019 DATE FINISHED: 12/10/2019

LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet



MONITORNG WELL ID: **BAC-18**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: Down Gradient North



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

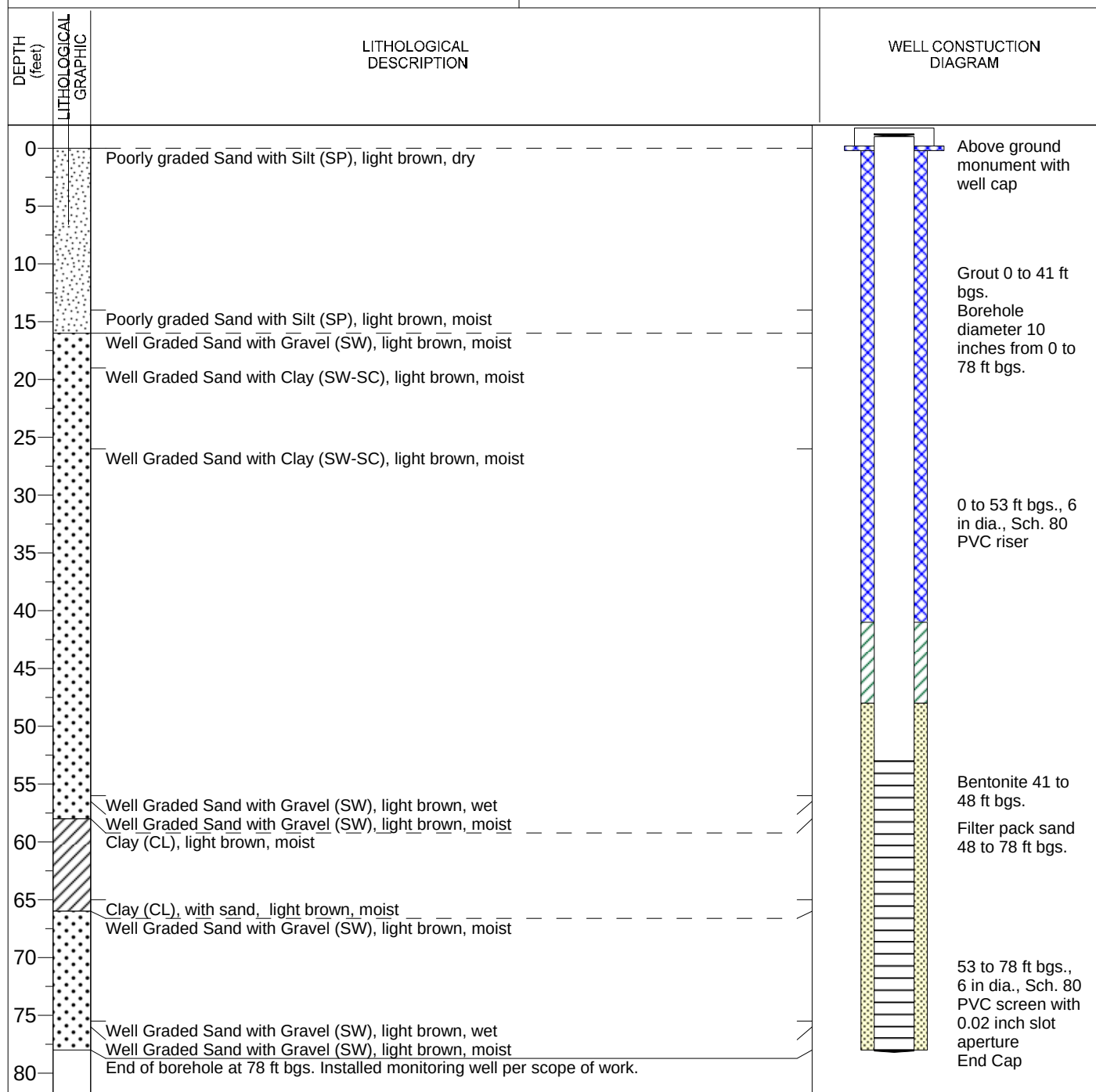
TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/8/2020

DATE FINISHED: 5/9/2020

LOGGED BY: Rich Pratt



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-19**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: Down Gradient South



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 91 ft bgs.,
10 inch sonic core barrel 0 to 91 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

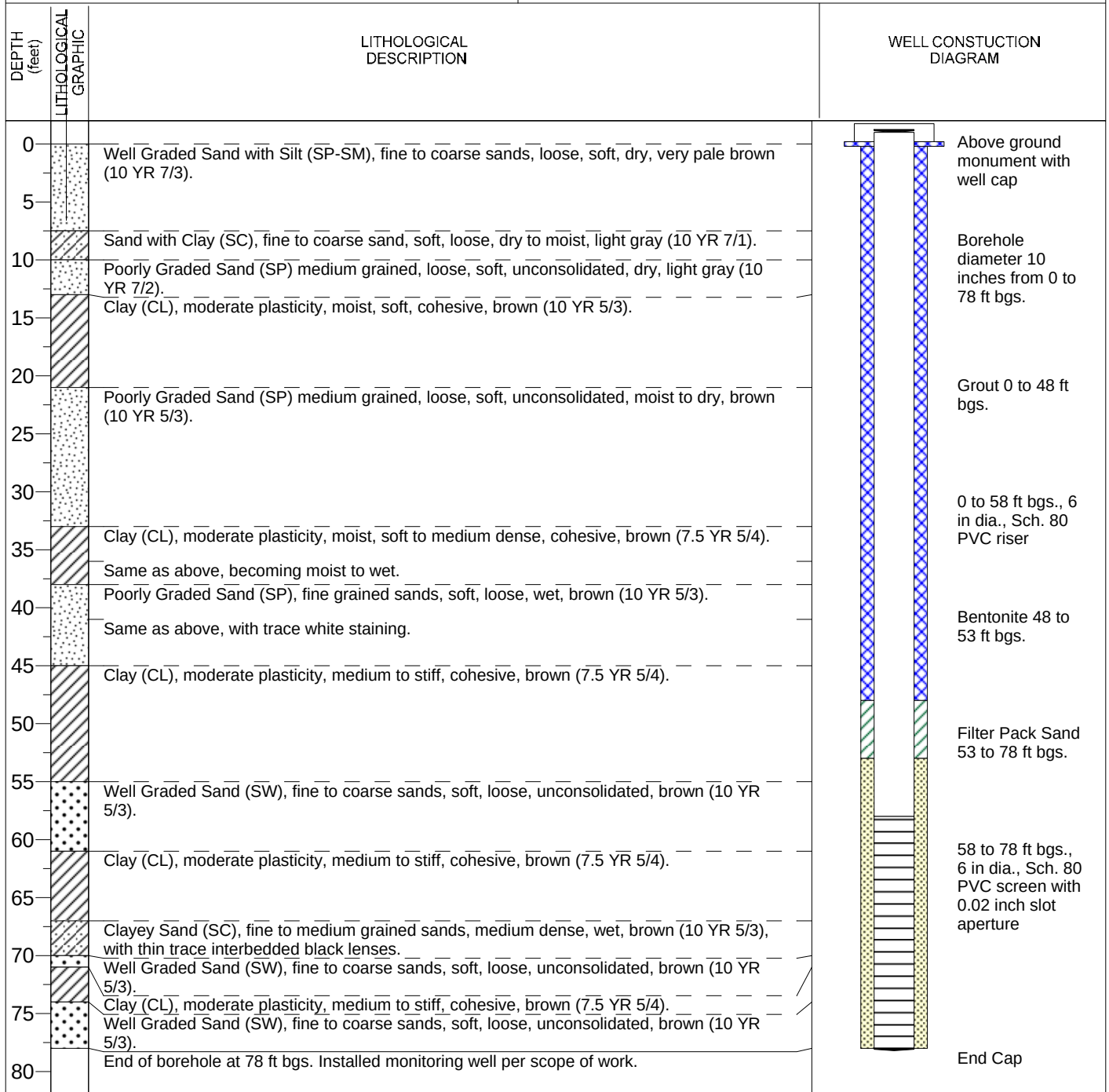
TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/9/2020

DATE FINISHED: 5/9/2020

LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet



MONITORING WELL ID: **BAC-20**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

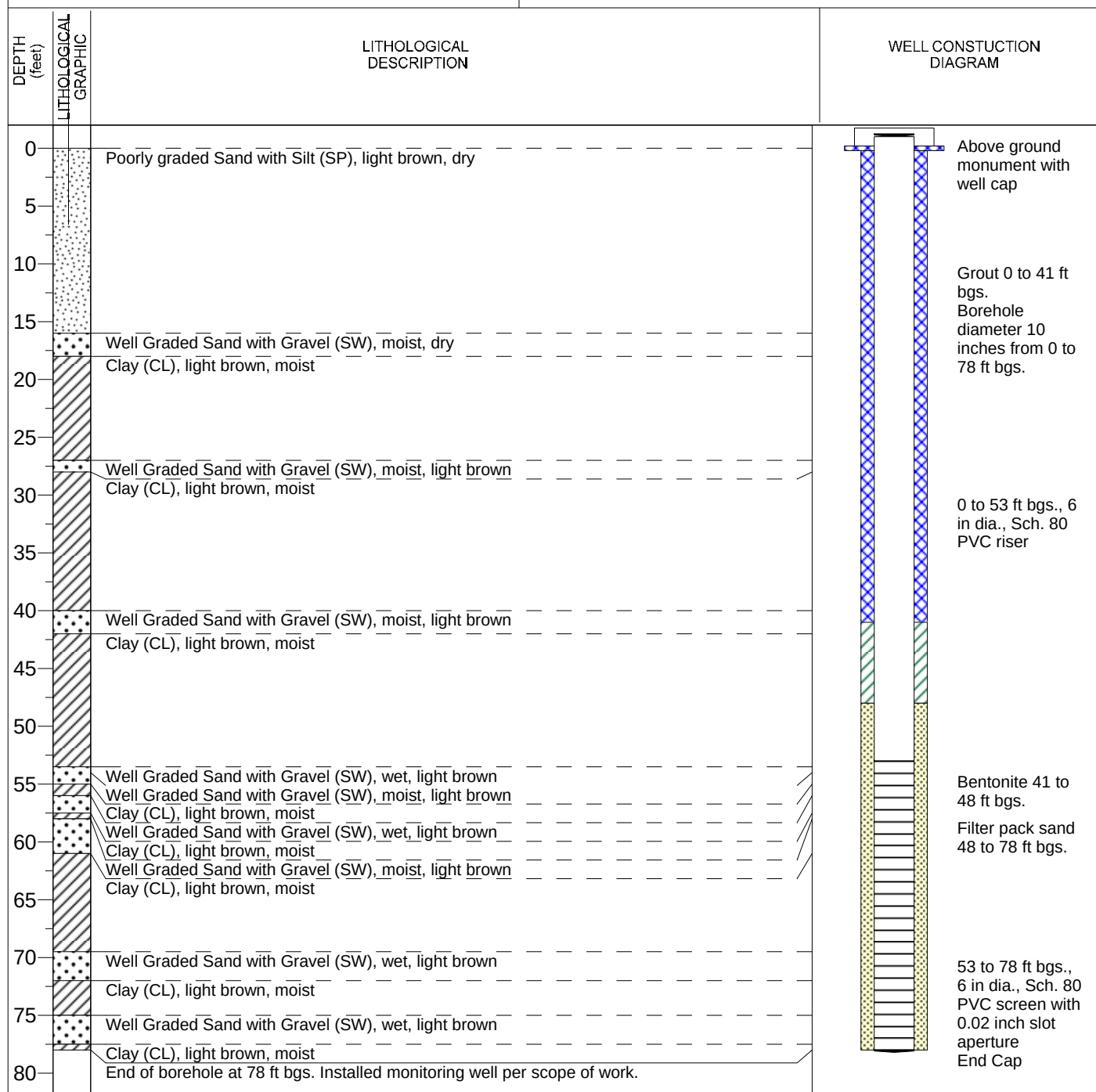
TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/9/2020

DATE FINISHED: 5/10/2020

LOGGED BY: Rich Pratt



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-21**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 91 ft bgs.,
10 inch sonic core barrel 0 to 91 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

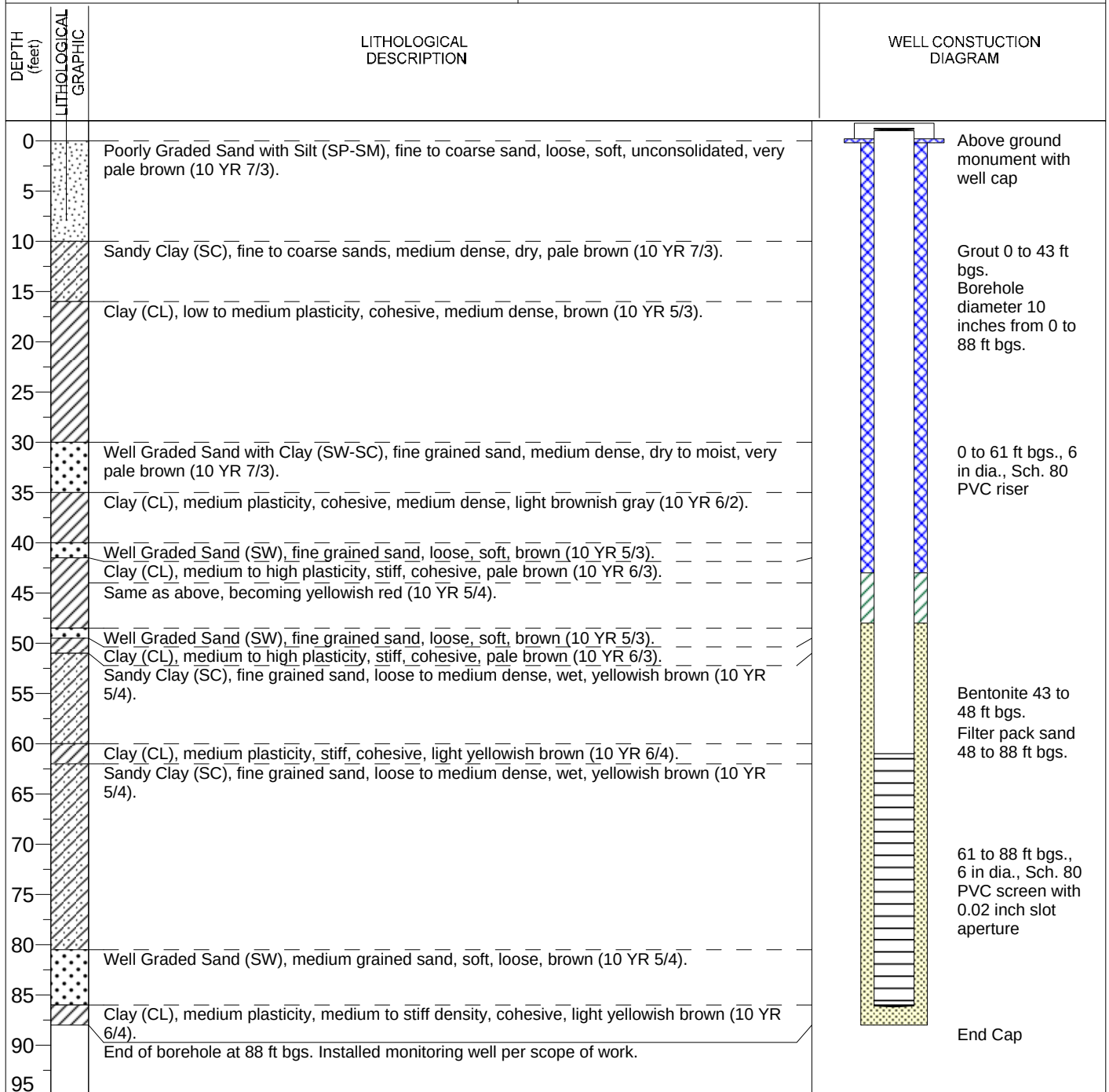
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 88

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/10/2020 DATE FINISHED: 5/10/2020

LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet



MONITORING WELL ID: **BAC-22**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

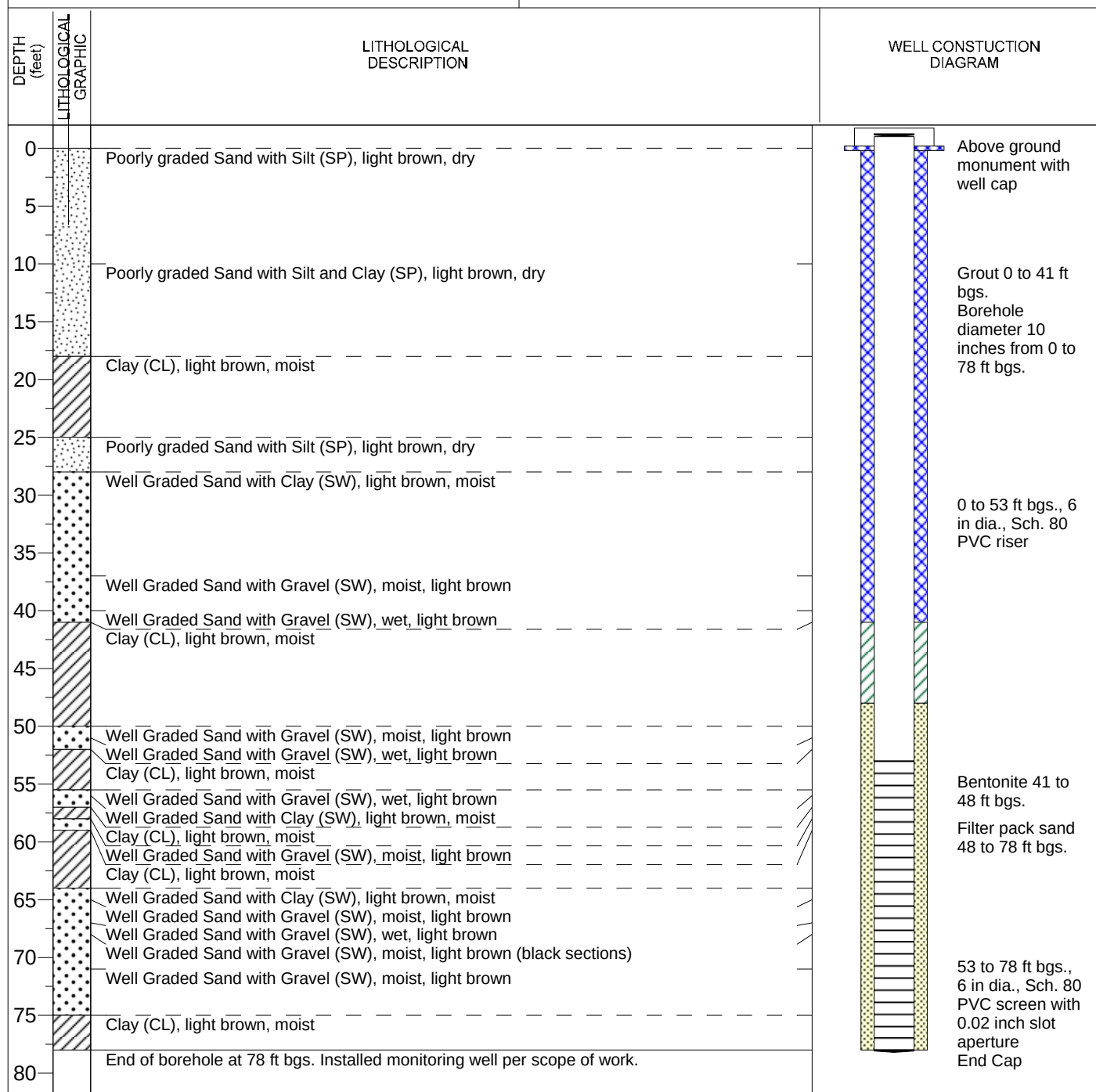
TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/10/2020

DATE FINISHED: 5/10/2020

LOGGED BY: Rich Pratt



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet



MONITORNG WELL ID: **BAC-24**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

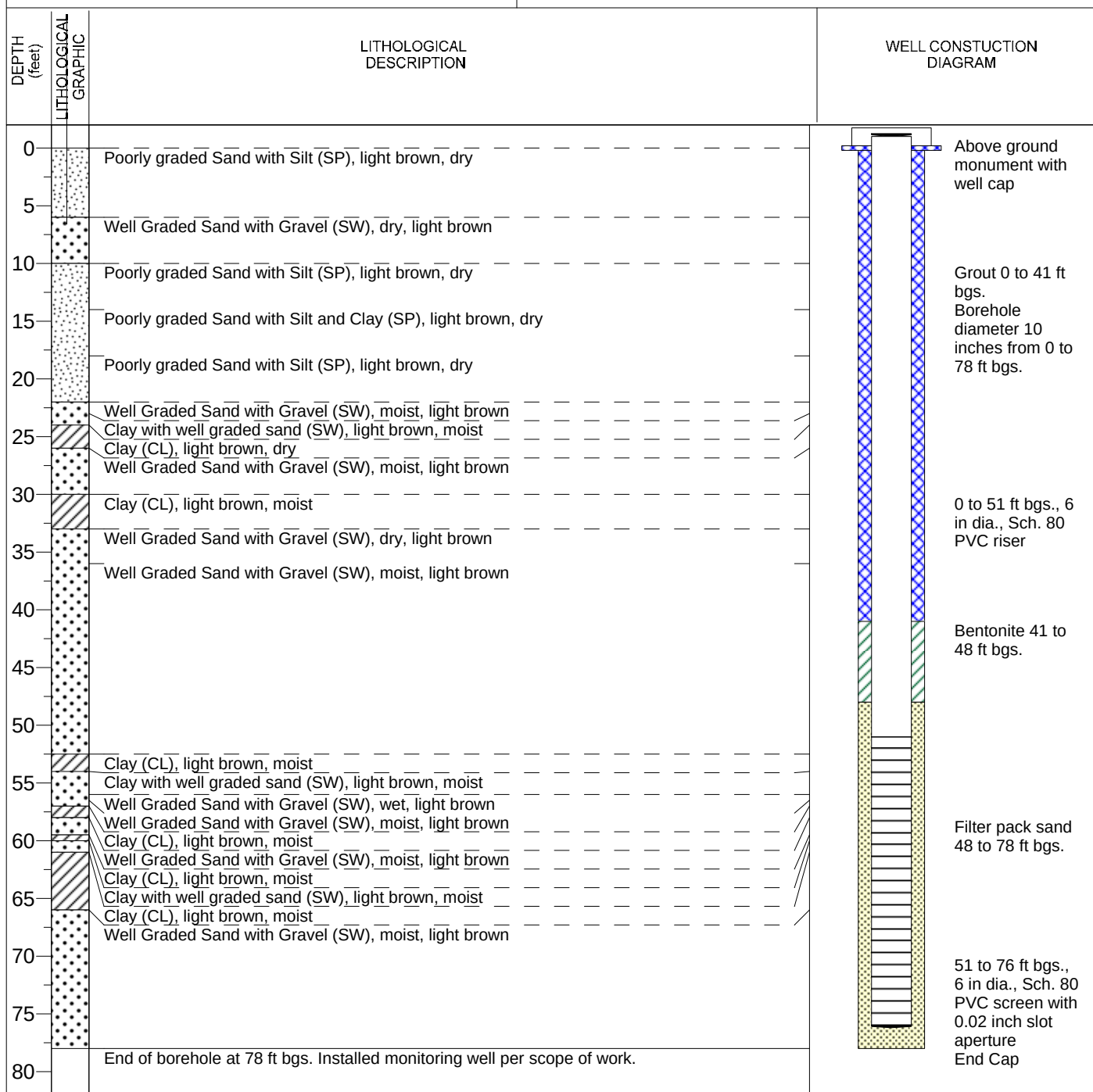
TOTAL DEPTH (ft.): 76.2

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/12/2020

DATE FINISHED: 5/12/2020

LOGGED BY: Rich Pratt



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-25**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

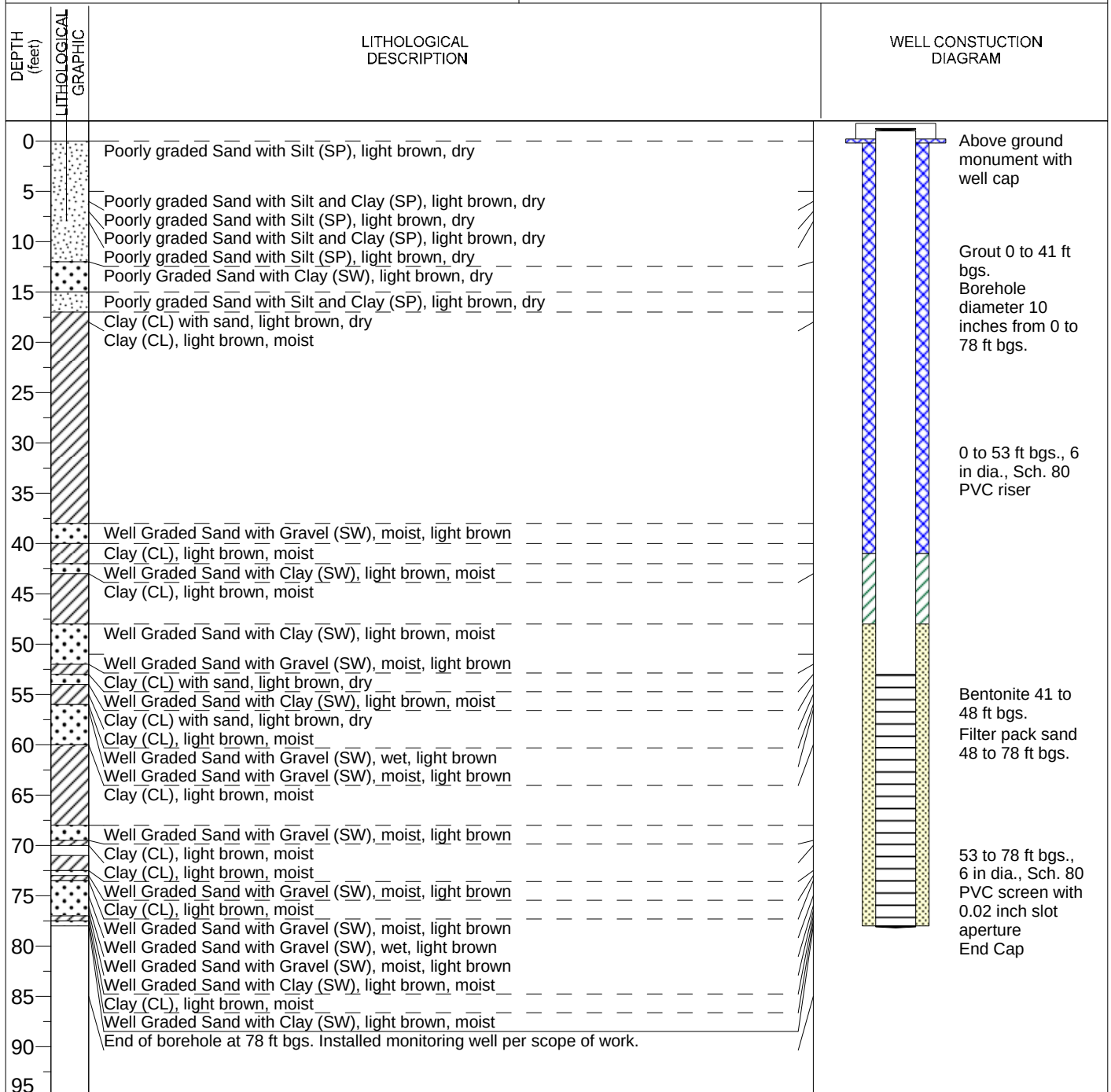
TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/12/2020

DATE FINISHED: 5/12/2020

LOGGED BY: Rich Pratt



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet



MONITORING WELL ID: **BAC-26**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

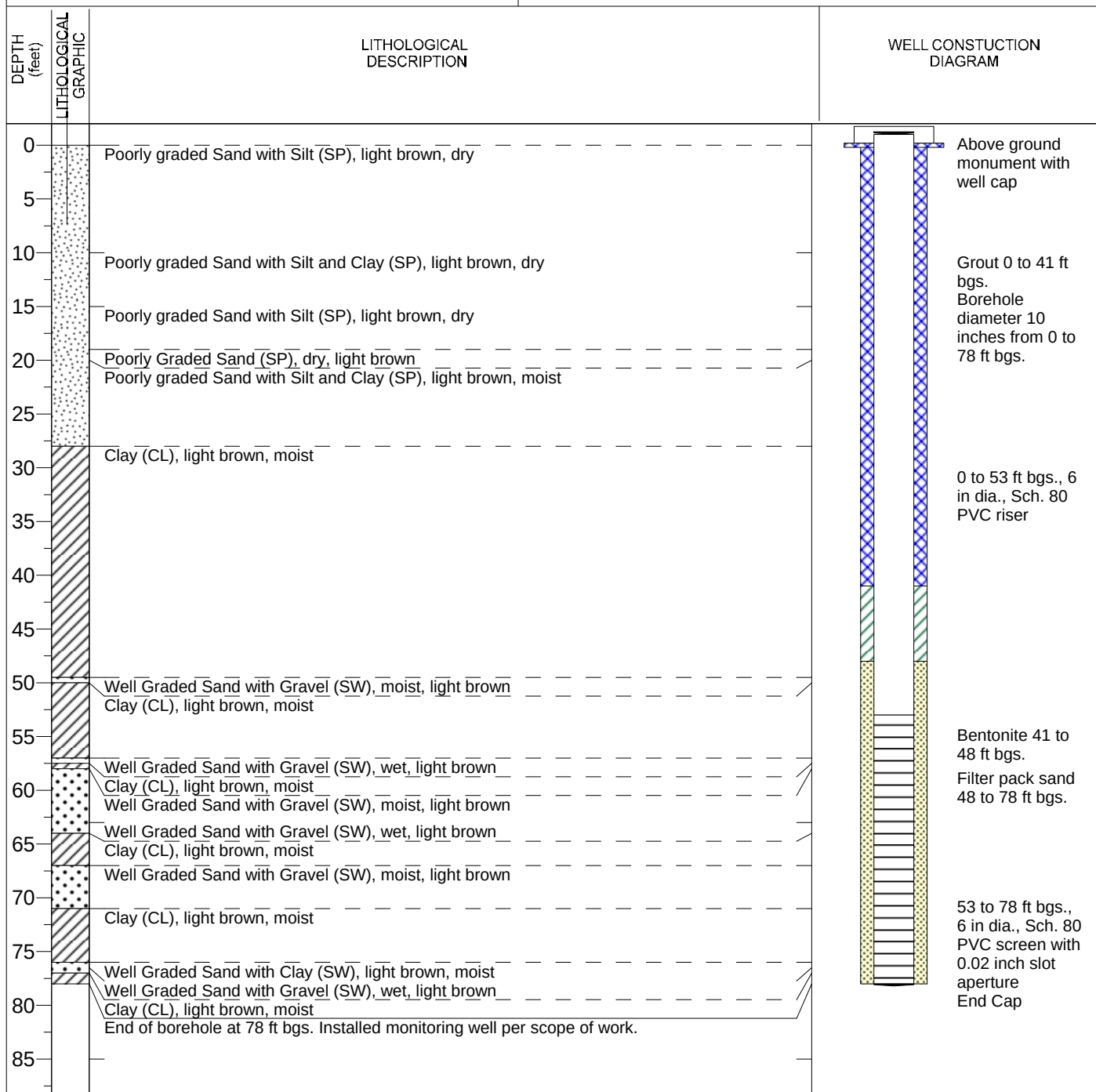
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/13/2020 DATE FINISHED: 5/13/2020

LOGGED BY: Rich Pratt



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-27**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: North Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

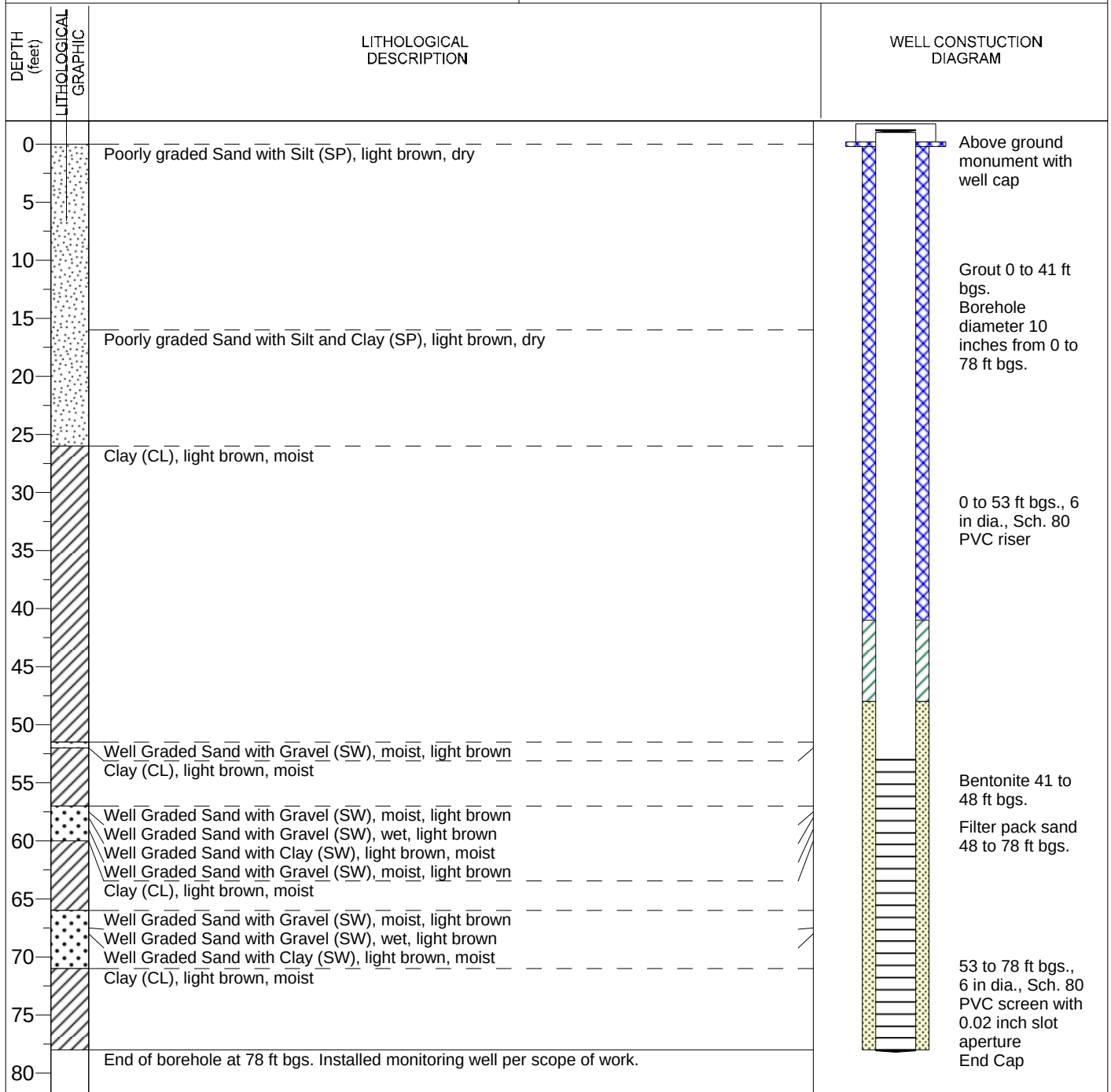
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/13/2020 DATE FINISHED: 5/13/2020

LOGGED BY: Rich Pratt



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet



MONITORING WELL ID: **BAC-28**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: North Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

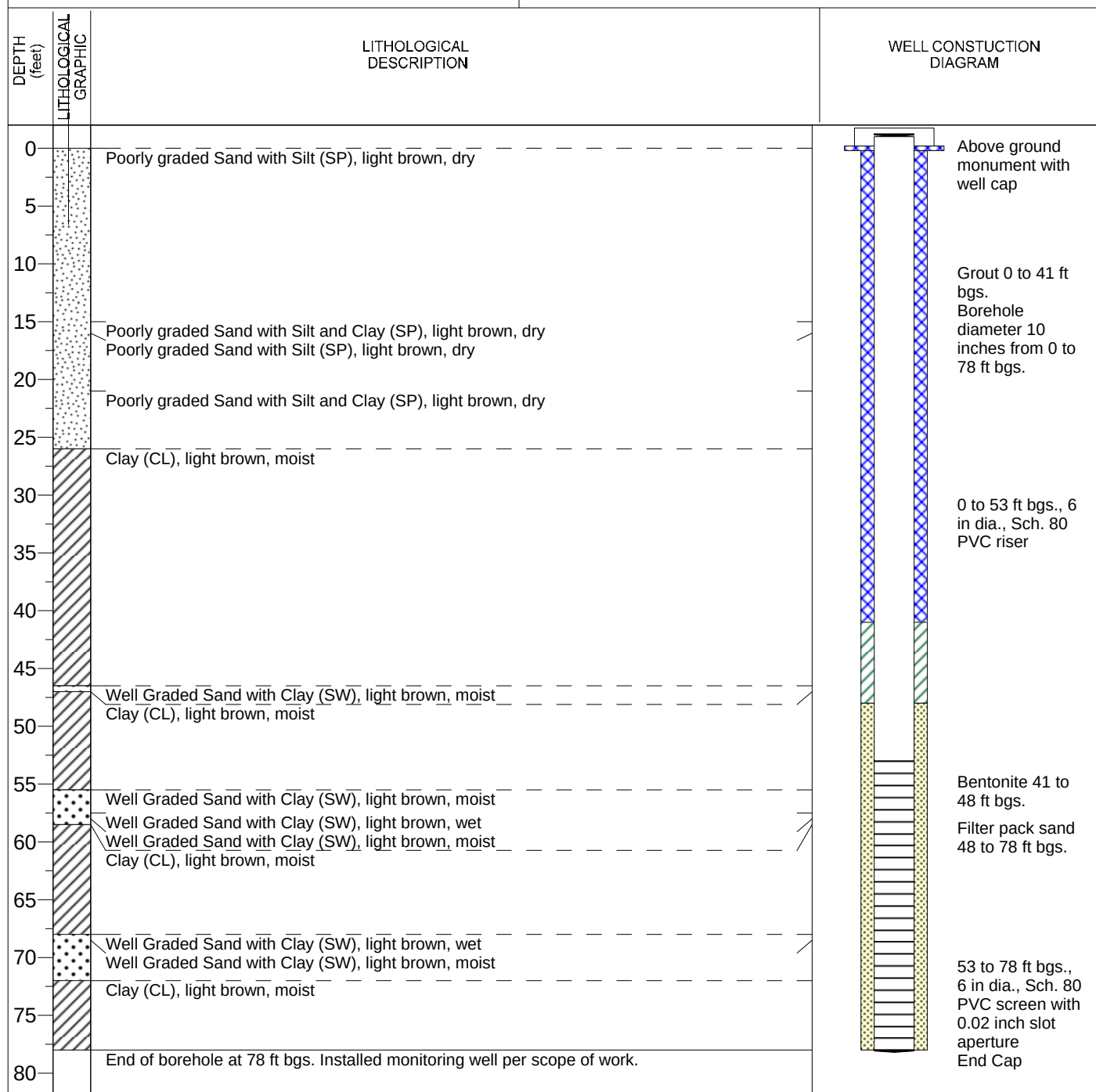
TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/14/2020

DATE FINISHED: 5/14/2020

LOGGED BY: Rich Pratt



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet



MONITORING WELL ID: **BAC-29**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: North Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

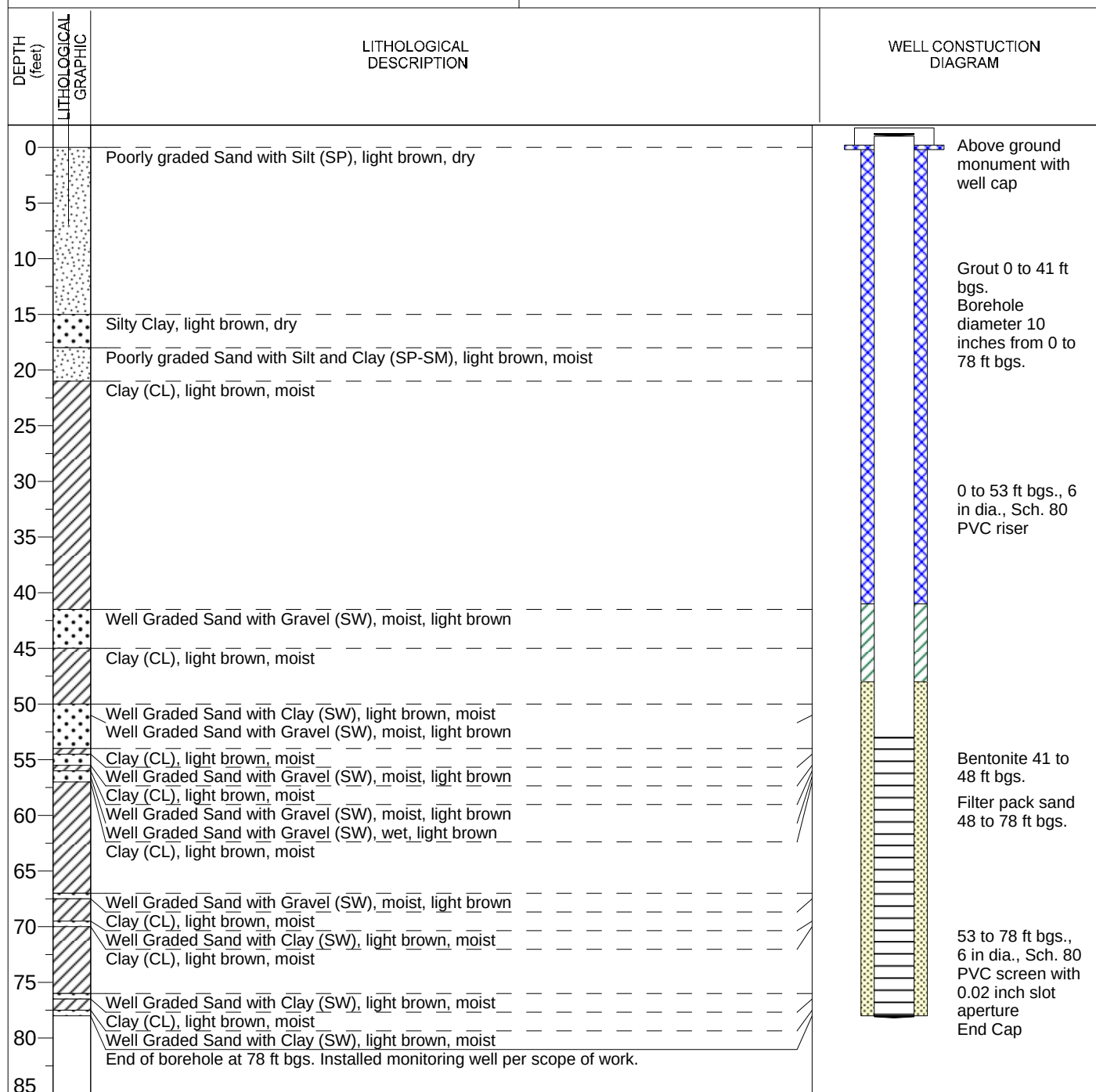
TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/15/2020

DATE FINISHED: 5/15/2020

LOGGED BY: Rich Pratt



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-30**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: North Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

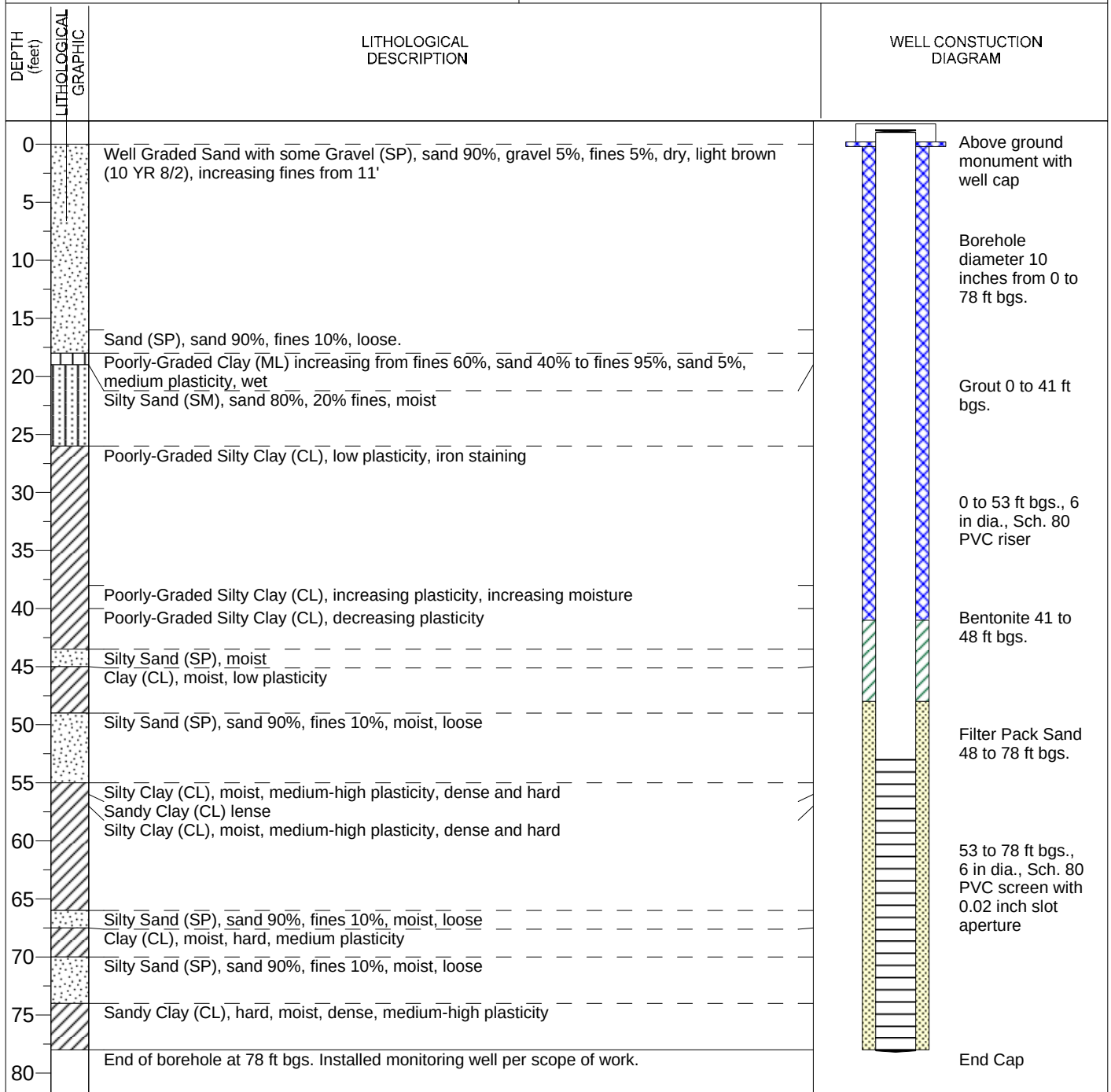
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/14/2020 DATE FINISHED: 5/15/2020

LOGGED BY: Joel Pierson



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-31**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: North Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

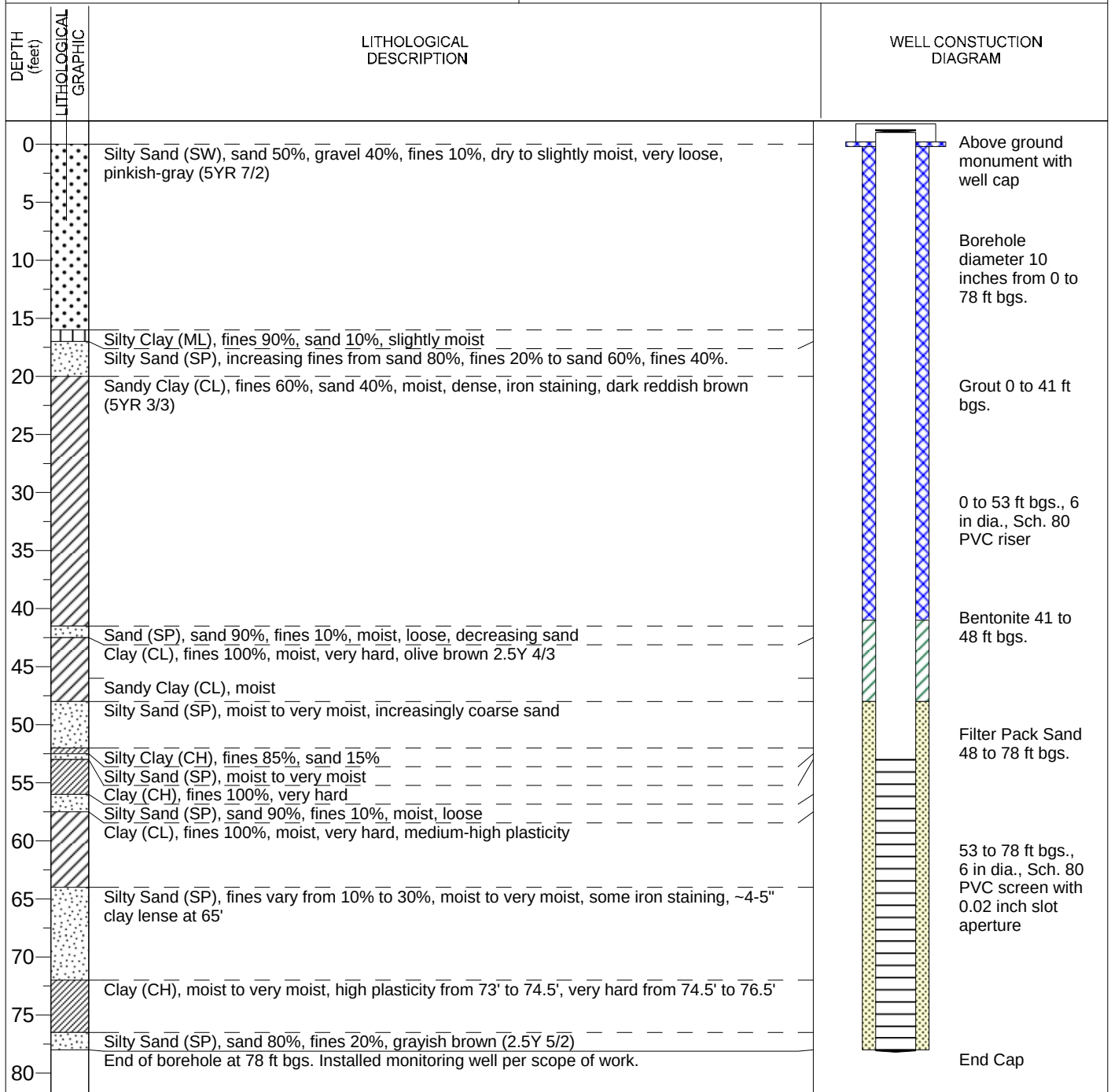
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/15/2020 DATE FINISHED: 5/18/2020

LOGGED BY: Joel Pierson



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-32**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: North Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

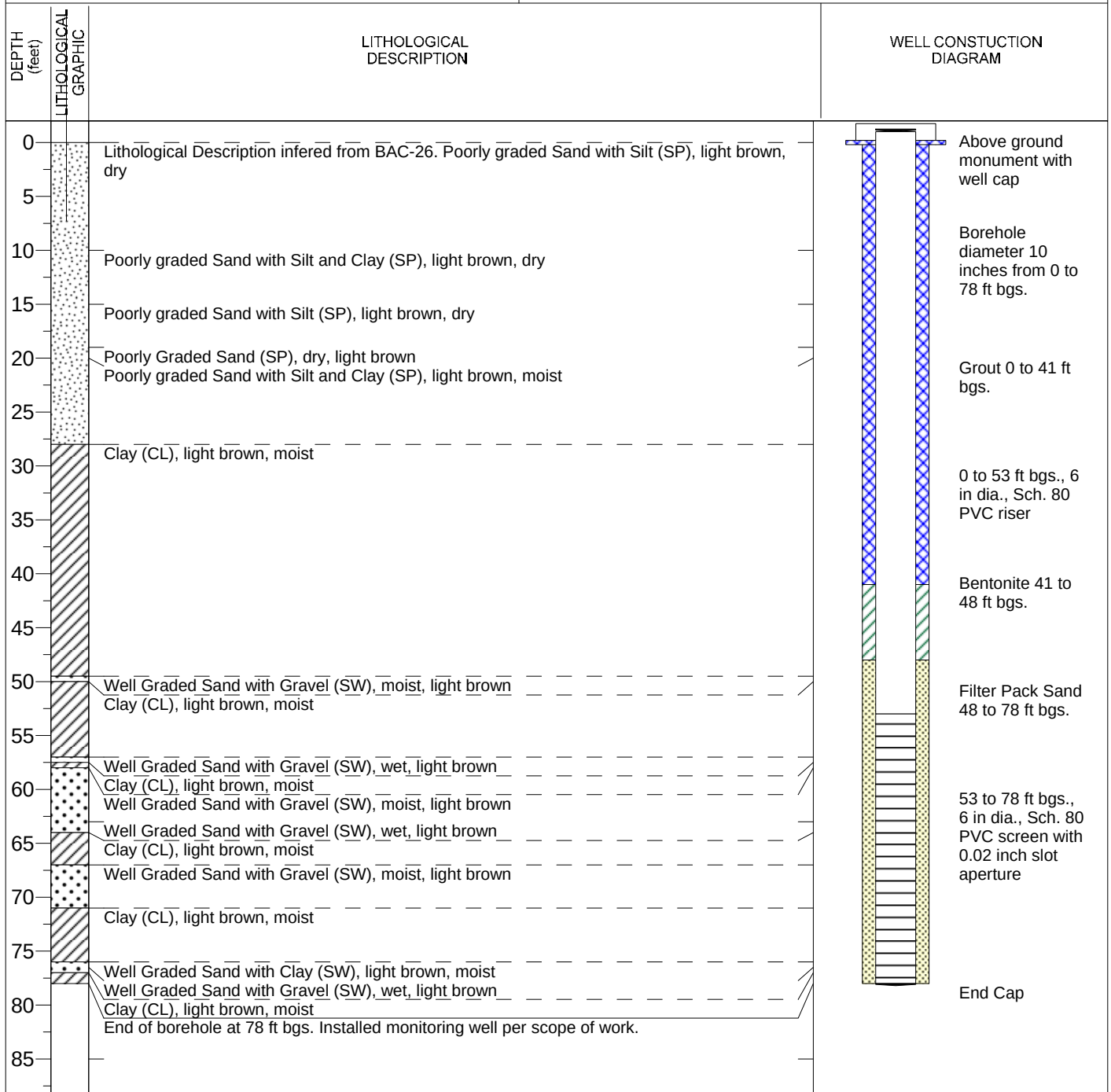
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/19/2020 DATE FINISHED: 5/19/2020

LOGGED BY: Not Available



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-33**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: North Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

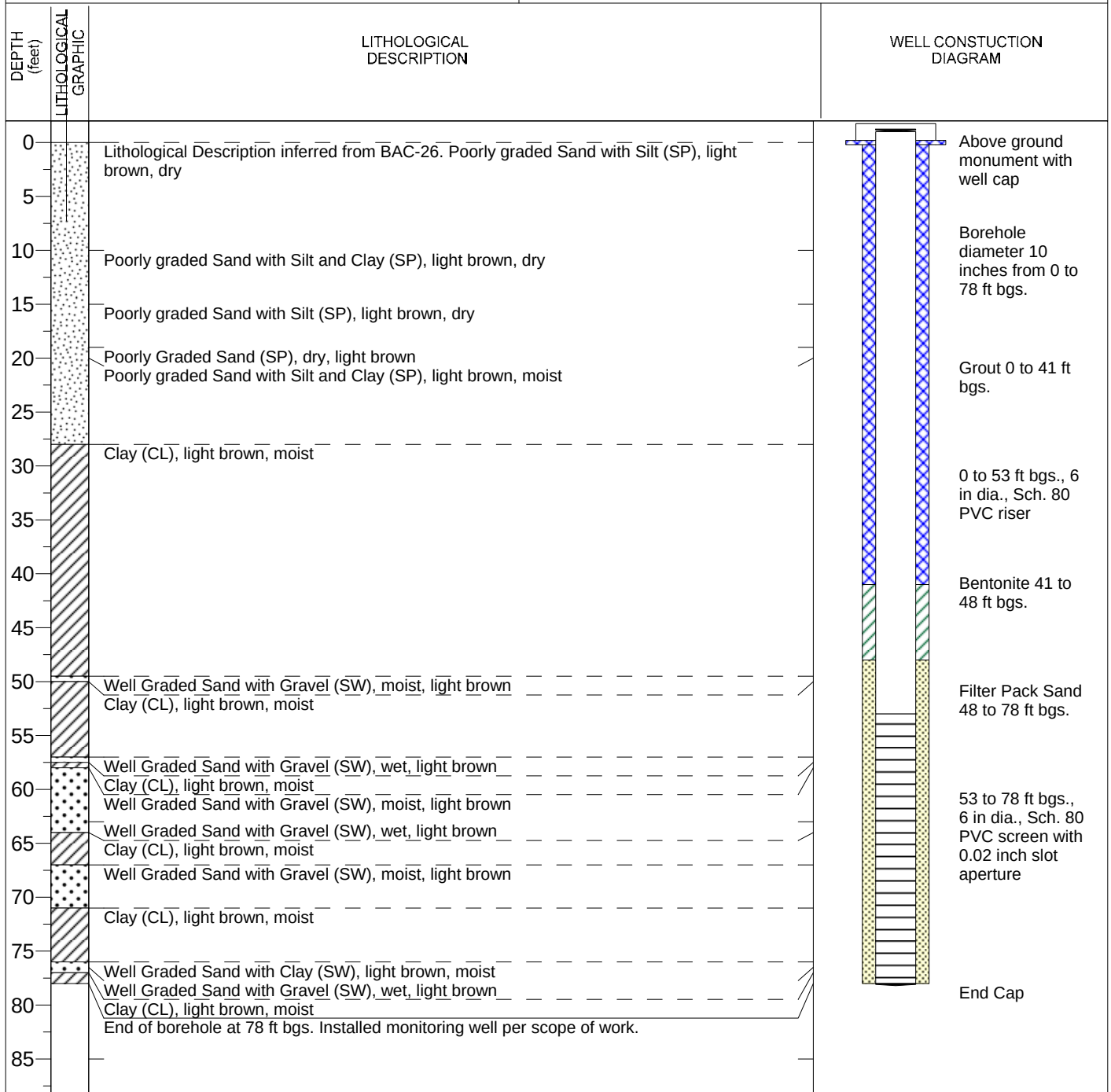
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/18/2020 DATE FINISHED: 5/18/2020

LOGGED BY: Not Available



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet



MONITORNG WELL ID: **BAC-34**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: North Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

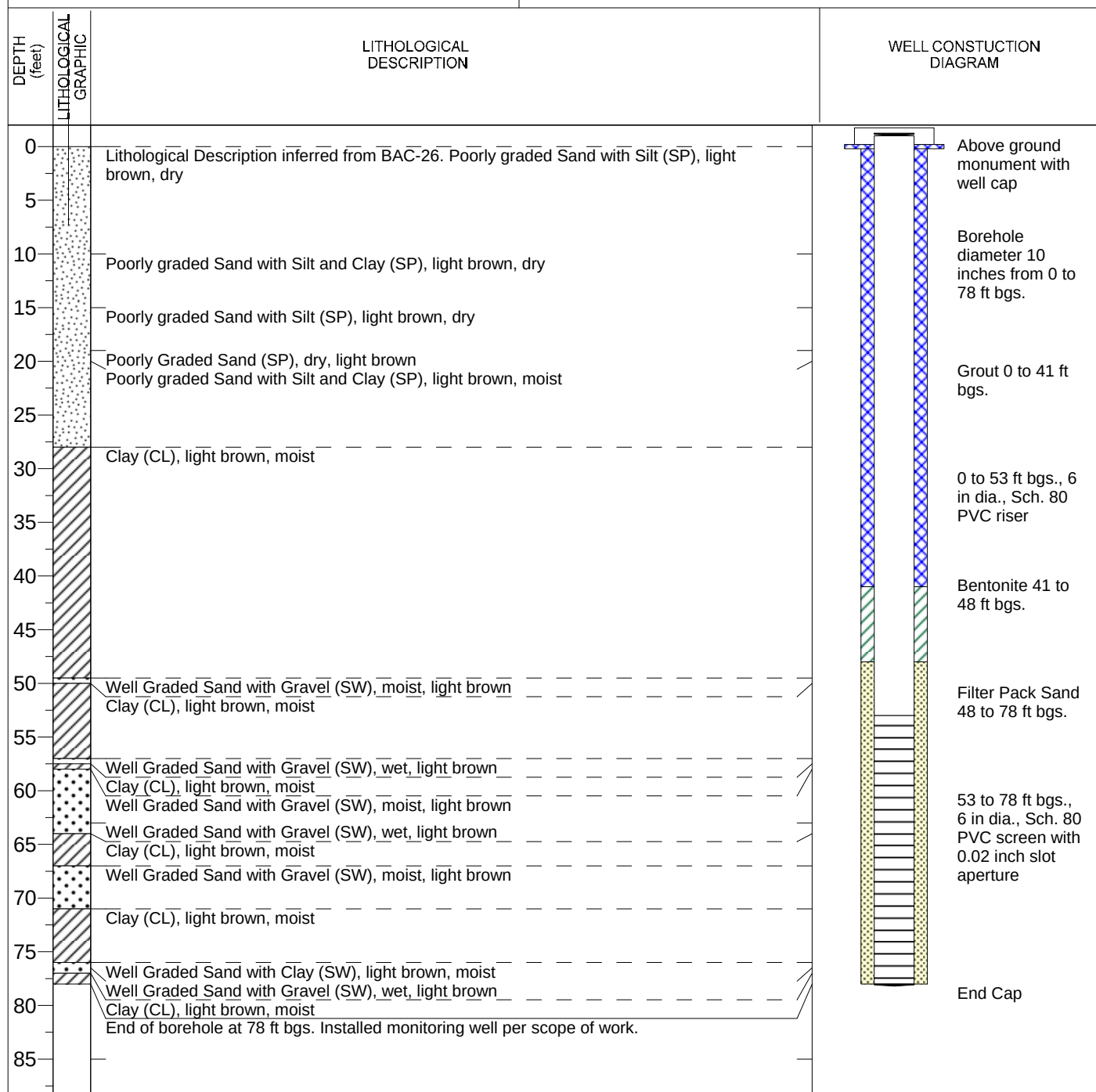
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/21/2020 DATE FINISHED: 5/21/2020

LOGGED BY: Not Available



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-35**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: North Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

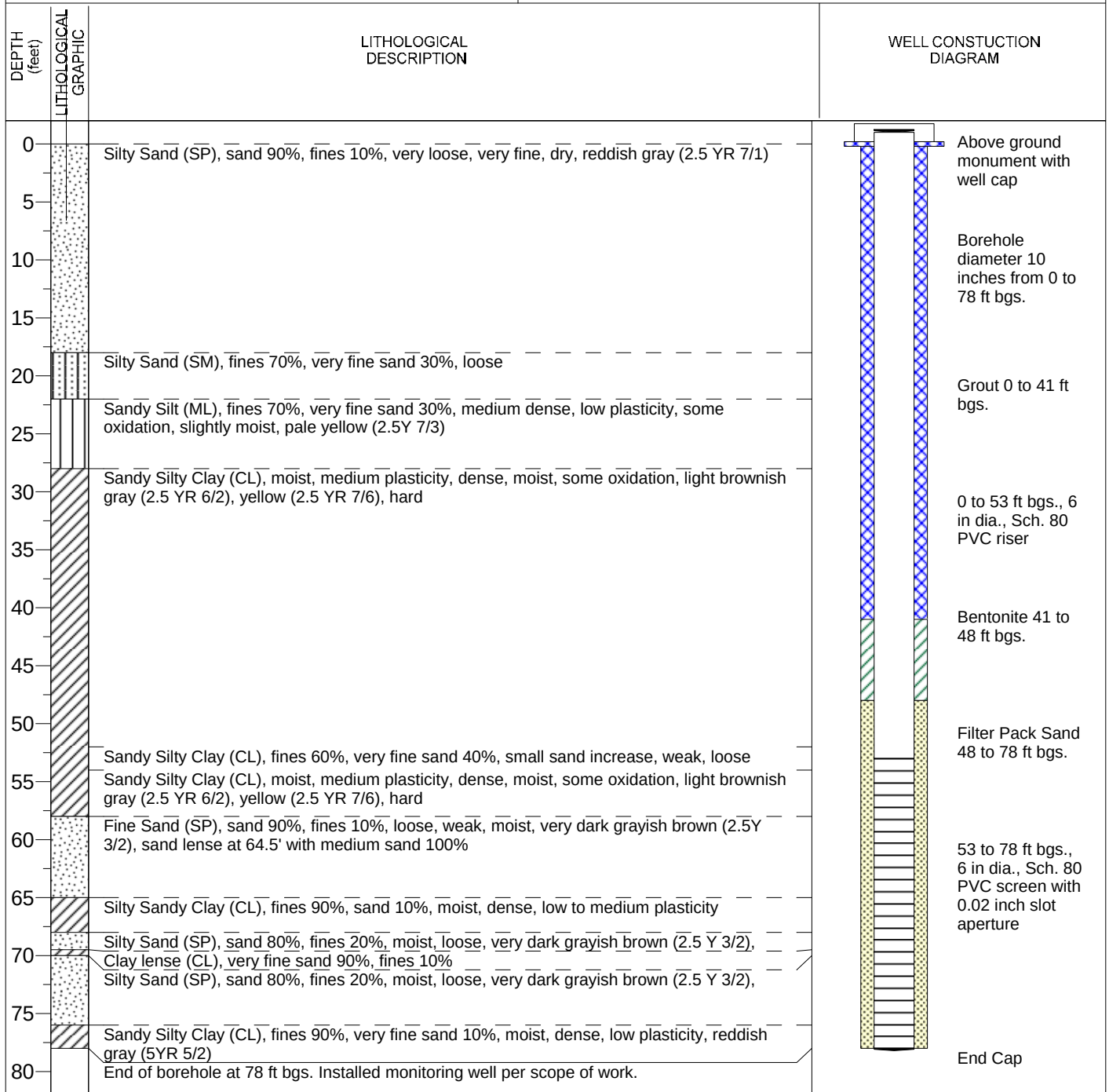
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/28/2020 DATE FINISHED: 5/29/2020

LOGGED BY: Joel Pierson



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-36**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

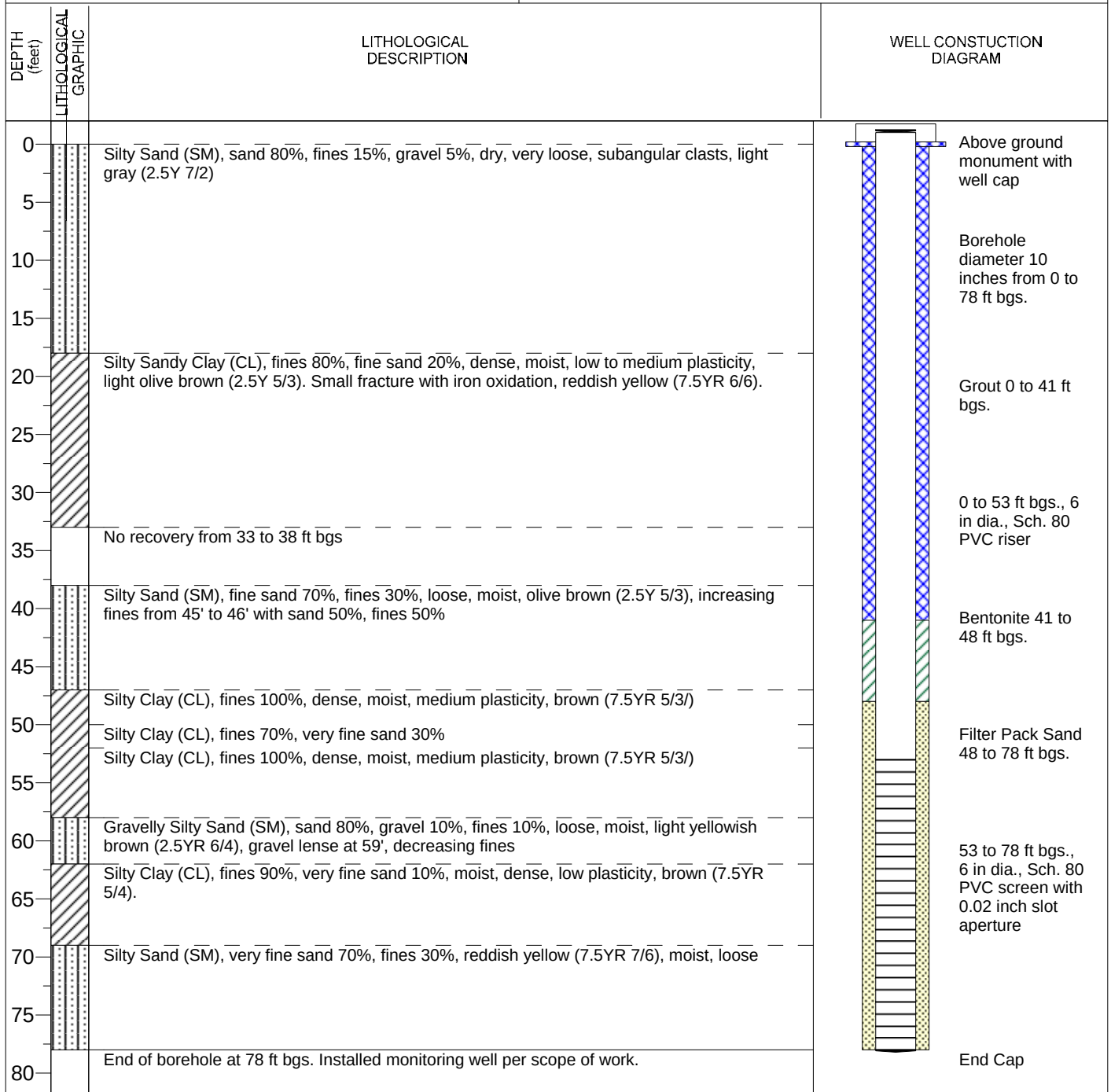
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/30/2020 DATE FINISHED: 5/31/2020

LOGGED BY: Joel Pierson



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet



MONITORING WELL ID: **BAC-37**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

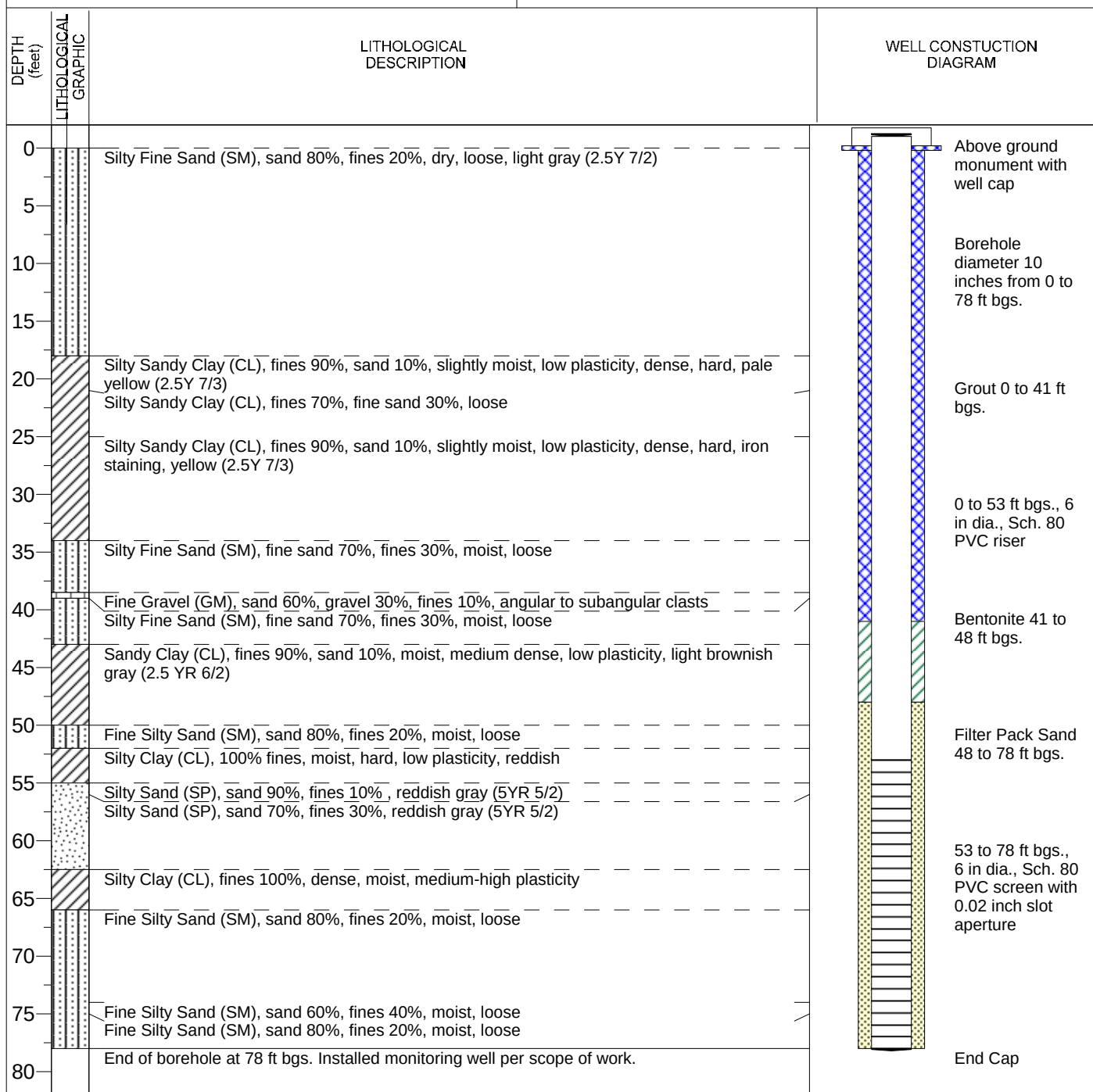
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/29/2020 DATE FINISHED: 5/30/2020

LOGGED BY: Joel Pierson



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **BAC-38**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South Wells



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 78 ft bgs.,
10 inch sonic core barrel 0 to 78 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

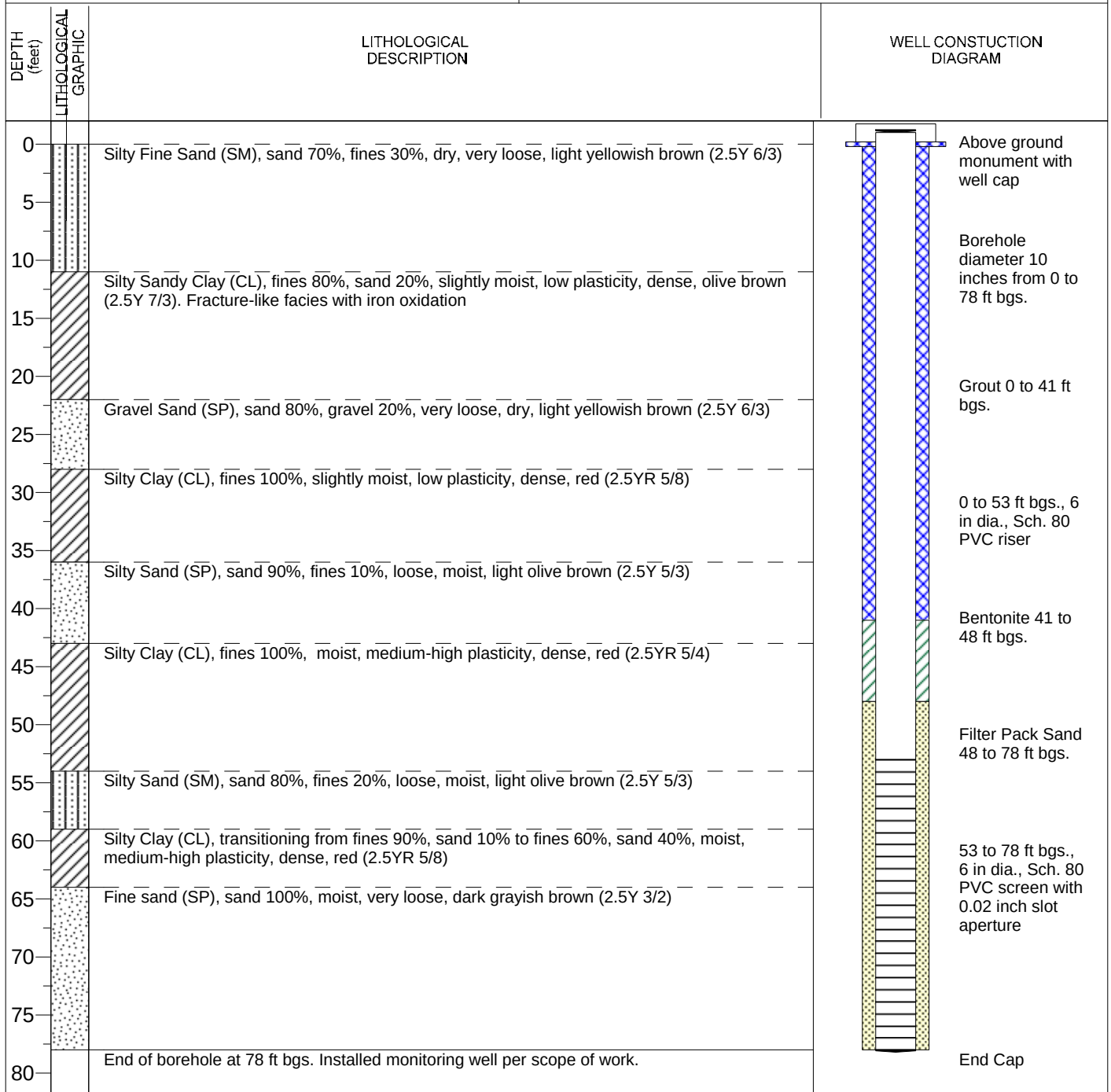
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 78

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/31/2020 DATE FINISHED: 5/31/2020

LOGGED BY: Joel Pierson



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

BA-U-1

Interval (feet)	Drilling Method	USCS	Sample Description
7/24/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-1.5	8" Sonic	SM	Silty SAND:
1.5-2.5	8" Sonic	SC	Clayey SAND:
2.5-3.5	8" Sonic	ML	Sandy SILT:
3.5-5	8" Sonic	SM/ML	Silty SAND/Sandy Silt:
5-6	8" Sonic	SP	SAND:
6-9.5	8" Sonic		SAND:
9.5-11	8" Sonic		SAND:
11-11.5	8" Sonic	SM	Silty SAND:
11.5-12	8" Sonic		Silty SAND:
12-13	8" Sonic	SP/SM	SAND with silt:
13-17	8" Sonic	SP	SAND:
17-17.5	8" Sonic	SP/SM	SAND with silt:
17.5-20	8" Sonic	SP	SAND:
20-22.5	8" Sonic		SAND:
22.5-25	8" Sonic	SM	Silty SAND:
25-26	8" Sonic	SP	SAND:
26-27.5	8" Sonic	SP/SM	SAND with silt:
27.5-28.25	8" Sonic	SM	Silty SAND with clay:
28.25-29.25	8" Sonic	SP/SM	SAND with silt:
29.25-30	8" Sonic	CL	CLAY:
30-31.5	8" Sonic		Sandy CLAY:
31.5-33	8" Sonic	ML	Sandy SILT:
33-35	8" Sonic	SM	Silty SAND with clay:
35-36.25	8" Sonic	SP/SM	SAND with silt:
36.25-40	8" Sonic	CH	CLAY:
40-46.5	8" Sonic		CLAY:
46.5-47.5	8" Sonic	SP/SM	SAND with silt:
47.5-50	8" Sonic	SM	Silty SAND with clay:
50-51	8" Sonic	SC	Clayey SAND:
51-51.75	8" Sonic	SW	SAND:
51.75-52.5	8" Sonic	SP	SAND:
52.5-53	8" Sonic	CH	Sandy CLAY:
53-54	8" Sonic		Sandy CLAY:
54-55	8" Sonic		CLAY:

TD = 55'; PVC 4-inch screen from 45 to 55; PVC 4-inch riser from -2.5 to 45
Drilling Method: Guspech GS24-300RS, 8" Rotasonic

Drilling Company - Cascade Drilling
Driller - Daniel Dodge
Geologist - Michael Sauerwein

Above-grade, 5-feet. long, 8-in. dia., steel
Wellhead Protective Monument set in a 2X2
Concrete Pad ~ 2.5-feet. stick-up

Ground Surface

8-inch diameter,
from 0 to 55-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 45 feet below ground surface (bgs)

Portland Cement-Bentonite gel (~ 10:1)
Grout, Tremie-Pipe Slurry,
from 0 to 38-feet bgs

Bentonite medium chips,
from 38 to 43 feet bgs

At Time of Drilling,
Depth to Uppermost Ground Water
~ 46.25-feet bgs

Centralizers placed ~ the bottom
and the top of the well screen.

16/30 washed silica sand,
2-feet above screen
from 43 to 55 feet bgs

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 45 to 55 feet bgs

Total Depth (TD) = 55 feet bgs



IPSC – BOTTOM ASH BASIN AREA
DELTA, UTAH

Well BA-U-1 Schematic

Date Drawn
7/24/15

Design by

Drawn by

MS

Scale

Last Revision
Date

Boring Logs
ISPC
Delta, Utah

BA-U-2

Interval (feet)	Drilling Method	USCS	Sample Description
7/25/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-1.5	8" Sonic	ML	Sandy SILT:
1.5-2.5	8" Sonic	SP/SM	SAND with silt:
2.5-4	8" Sonic		SAND with silt:
4-5	8" Sonic	ML	SILT with sand and clay:
5-6	8" Sonic	SP/SM	SAND with silt:
6-7	8" Sonic	SP	SAND:
7-9	8" Sonic	SW	Gravelly SAND:
9-9.75	8" Sonic		Gravelly SAND:
9.75-10.25	8" Sonic	SP	Gravelly SAND:
10.25-11	8" Sonic	SP/SM	SAND with silt:
11-12.5	8" Sonic	CL	CLAY:
12.5-13	8" Sonic	SP	SAND:
13-15.5	8" Sonic		SAND:
15.5-18	8" Sonic		SAND:
18-22.5	8" Sonic		SAND:
22.5-23	8" Sonic		SAND:
23-23.5	8" Sonic	SM	Silty SAND:
23.5-25	8" Sonic	SP/SM	SAND with silt:
25-30	8" Sonic	SM	Silty SAND:
30-32.5	8" Sonic	SC	Clayey SAND:
32.5-35	8" Sonic	SM	Silty SAND with clay:
35-37.5	8" Sonic		Silty SAND:
37.5-40	8" Sonic	CL	Sandy CLAY:
40-42	8" Sonic	SC	Clayey SAND:
42-45	8" Sonic	CH	CLAY:
45-47.5	8" Sonic		Sandy CLAY:
47.5-51.75	8" Sonic		CLAY:
51.75-53	8" Sonic	SM	Silty SAND:
53-54	8" Sonic		Silty SAND:
54-55	8" Sonic	SC/SM	Clayey SAND with silt:
55-56.5	8" Sonic	CH	CLAY:
56.5-57.5	8" Sonic		CLAY:
57.5-60	8" Sonic	SC	Clayey SAND:
60-60.75	8" Sonic	SM	Silty SAND with clay:
60.75-61.5	8" Sonic	SC	Clayey SAND:
61.5-62.5	8" Sonic	SP	SAND:
62.5-63.5	8" Sonic		SAND:
63.5-65	8" Sonic	SW	SAND:
65-67.5	8" Sonic	SP	SAND:
67.5-70	8" Sonic		SAND:

TD = 70'; PVC 4-inch screen from 60 to 70; PVC 4-inch riser from -2.5 to 60

Drilling Method: Guspech GS24-300RS, 8" Rotasonic

Drilling Company - Cascade Drilling

Driller - Daniel Dodge

Geologist - Michael Sauerwein

Above-grade, 5-feet. long, 8-in. dia., steel
Wellhead Protective Monument set in a 2X2
Concrete Pad ~ 2.5-feet. stick-up

Ground Surface

8-inch diameter,
from 0 to 70-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 60 feet below ground surface (bgs)

Portland Cement-Bentonite gel (~ 10:1)
Grout, Tremie-Pipe Slurry,
from 0 to 52.5-feet bgs

At Time of Drilling,
Depth to Uppermost Ground
Water ~ 60.0-feet bgs

Bentonite medium chips, from 52.5
to 57.5 feet bgs

16/30 washed silica sand,
2-feet above screen
from 57.5 to 70 feet bgs

Centralizers - placed at the bottom
and the top of the well screen.

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 60 to 70 feet bgs

Total Depth (TD) = 70 feet bgs



IPSC – BOTTOM ASH BASIN AREA
DELTA, UTAH

Well BA-U-2 Schematic

Date Drawn
7/25/15

Design by

Drawn by

MS

Scale

Last Revision
Date

WWC-1

Interval (feet)	Drilling Method	USCS	Sample Description
7/26/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-2	8" Sonic	ML	Sandy SILT:
2-2.5	8" Sonic	SP	SAND:
2.5-5	8" Sonic		SAND:
5-6.75	8" Sonic	SM	Silty SAND:
6.75-7.5	8" Sonic	ML	Sandy SILT:
7.5-10	8" Sonic		Sandy SILT:
10-12	8" Sonic		Sandy SILT:
12-12.5	8" Sonic	SP/SM	SAND with silt:
12.5-13	8" Sonic	SM	Silty SAND:
13-15	8" Sonic	CL	Silty CLAY:
15-17.5	8" Sonic		Silty CLAY:
17.5-18.5	8" Sonic		Silty CLAY:
18.5-19	8" Sonic		Sandy CLAY:
19-20	8" Sonic		Silty CLAY:
20-22	8" Sonic	CH	CLAY:
22-24.5	8" Sonic		Sandy CLAY:
24.5-25.5	8" Sonic		Sandy CLAY:
25.5-27	8" Sonic		Sandy CLAY:
27-31	8" Sonic		CLAY:
31-31.5	8" Sonic		CLAY:
31.5-33	8" Sonic		CLAY:
33-34.5	8" Sonic		Sandy CLAY:
34.5-35	8" Sonic		Sandy CLAY:
35-37.5	8" Sonic	SM	Silty SAND:
37.5-40	8" Sonic		Silty SAND:
40-41.5	8" Sonic	SP	SAND:
41.5-42.5	8" Sonic		SAND:
42.5-44	8" Sonic		SAND:
44-45	8" Sonic	CH	SAND:
45-46.5	8" Sonic		CLAY:
46.5-47.5	8" Sonic		Sandy CLAY:
47.5-50.5	8" Sonic	SC/SM	SAND with silt and clay:
50.5-52.5	8" Sonic	SW	SAND:
52.5-53.5	8" Sonic		SAND:
53.5-55	8" Sonic	SM	Silty SAND:
55-57	8" Sonic		Silty SAND:
57-57.5	8" Sonic	CH	CLAY:
57.5-60			CLAY:

TD = 60'; PVC 4-inch screen from 48 to 58; PVC 4-inch riser from -2.5 to 48

Drilling Method: Guspech GS24-300RS, 8" Rotasonic

Drilling Company - Cascade Drilling

Driller - Daniel Dodge

Geologist - Michael Sauerwein

Above-grade, 5-foot long, 6-inch diameter, steel Wellhead Protective Monument set in Concrete
~ 2.5-foot. stick-up

Ground Surface

8-inch diameter,
from 0 to 60-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 48 feet below ground surface (bgs)

Cement-Bentonite gel (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 41-feet bgs

At Time of Drilling,
Depth to Uppermost Ground
Water ~ 47.5-feet bgs

Bentonite medium chips,
from 41 to 46 feet bgs

16/30 washed silica sand,
2-feet above screen
from 46 to 60 feet bgs

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 48 to 58 feet bgs

Centralizers - placed at the bottom
and the top of the well screen.

Total Depth (TD) = 60 feet bgs



IPSC – WASTEWATER SURFACE IMPOUNDMENT
DELTA, UTAH

Well WWC-1 Schematic

Date Drawn
7/26/15

Design by

Drawn by

MS

Scale

Last Revision
Date

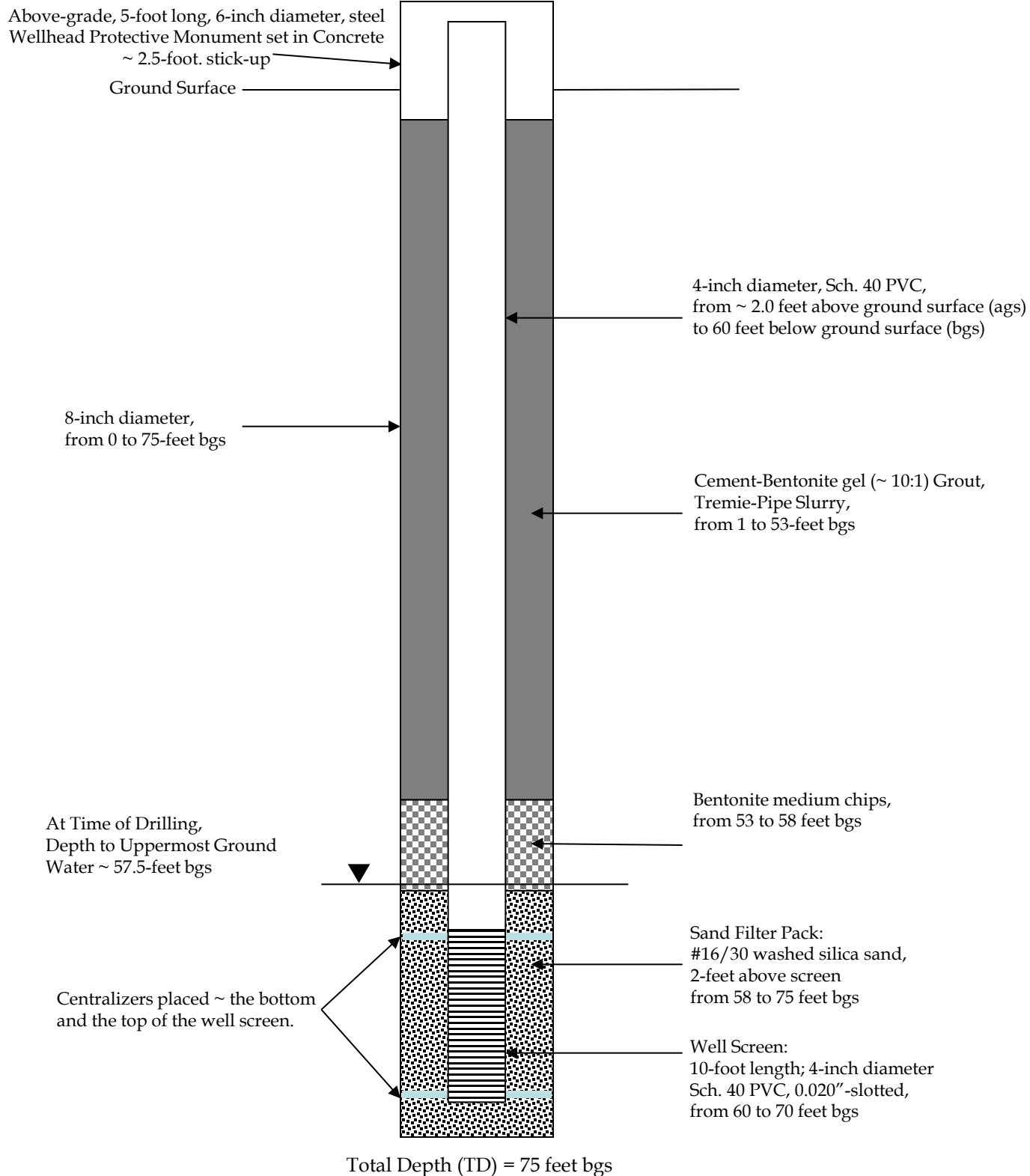
Boring Logs
IPSC
Delta, Utah

WWC-2

Interval (feet)	Drilling Method	USCS	Sample Description
7/27/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-2.5	8" Sonic	SM	Silty SAND:
2.5-5	8" Sonic	SP	SAND:
5-7	8" Sonic		SAND:
7-9.5	8" Sonic	SW	Gravelly SAND:
9.5-10	8" Sonic	SW/SP	SAND:
10-12	8" Sonic	SP	SAND:
12-12.5	8" Sonic	SP/SW	Gravelly SAND:
12.5-14.5	8" Sonic	SW	Gravelly SAND:
14.5-15	8" Sonic	SP	SAND with gravel:
15-16	8" Sonic		SAND:
16-17.5	8" Sonic	CL	Sandy CLAY:
17.5-19	8" Sonic	SC	Clayey SAND:
19-20	8" Sonic		Clayey SAND:
20-21	8" Sonic		Clayey SAND:
21-22	8" Sonic	CH	CLAY:
22-24	8" Sonic		CLAY:
24-25	8" Sonic	SM	Silty SAND with clay:
25-26.5	8" Sonic	SM/SC	Silty SAND and clay:
26.5-27.5	8" Sonic	SC	Clayey SAND with silt:
27.5-31.5	8" Sonic	CH	CLAY:
31.5-34	8" Sonic		Silty CLAY:
34-35.5	8" Sonic	SP	SAND:
35.5-37	8" Sonic	ML	Sandy SILT with clay:
37-38.5	8" Sonic	CL	Silty CLAY:
38.5-40	8" Sonic	SM	Silty SAND:
40-42	8" Sonic	CH	CLAY:
42-42.5	8" Sonic		Silty CLAY:
42.5-45	8" Sonic	SC	Clayey SAND:
45-46.25	8" Sonic	CH	CLAY:
46.25-46.75	8" Sonic	SW/SM	SAND with silt:
46.75-47	8" Sonic	ML	Sandy SILT:
47-47.5	8" Sonic	SM	Silty SAND:
47.5-50	8" Sonic	CH	CLAY:
50-51.5	8" Sonic	SM	Silty SAND:
51.5-52	8" Sonic	CH	Sandy CLAY:
52-52.5	8" Sonic	SM	CLAY:
52.5-53.5	8" Sonic	CH	Sandy CLAY:
53.5-55	8" Sonic	SM	Silty SAND:
55-56.25	8" Sonic	ML	Sandy SILT:
56.25-57.5	8" Sonic		SILT:
57.5-60	8" Sonic	SP/SM	SAND with silt:
60-61.5	8" Sonic	SM	Silty SAND:
61.5-62.5	8" Sonic	CH	CLAY:
62.5-63.75	8" Sonic	SP/SM	SAND with silt:
63.75-65	8" Sonic	SW	SAND:
65-67.5	8" Sonic		SAND:
67.5-70	8" Sonic		Gravelly SAND:
70-70.5	8" Sonic	SC/SM	Silty SAND and clay:
70.5-72.5	8" Sonic	CH	CLAY:
72.5-75	8" Sonic		CLAY:

TD = 75'; PVC 4-inch screen from 60 to 70; PVC 4-inch riser from -2.5 to 60
Drilling Method: Guspech GS24-300RS, 8" Rotasonic

Drilling Company - Cascade Drilling
Driller - Daniel Dodge
Geologist - Michael Sauerwein



IPSC – WASTEWATER SURFACE IMPOUNDMENT
DELTA, UTAH

Well WWC-2 Schematic

Date Drawn
7/27/15

Design by

Drawn by

MS

Scale

Last Revision
Date

Boring Logs
ISPC
Delta, Utah

WWC-3

Interval (feet)	Drilling Method	USCS	Sample Description
7/30/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-1	8" Sonic	SP	Gravelly SAND:
1-2.5	8" Sonic	SM	Silty SAND:
2.5-3.5	8" Sonic		Silty SAND:
3.5-5	8" Sonic	SP/SM	SAND with silt:
5-6.5	8" Sonic	ML	Sandy SILT:
6.5-7.5	8" Sonic	CL	Sandy CLAY:
7.5-8	8" Sonic	SM	Silty SAND:
8-10	8" Sonic	SC	Clayey SAND:
10-11	8" Sonic	SM	Silty SAND:
11-12.5	8" Sonic		Silty SAND with clay:
12.5-13.5	8" Sonic		Silty SAND:
13.5-14	8" Sonic	SC	Clayey SAND:
14-15	8" Sonic	SM	Silty SAND:
15-15.5	8" Sonic	CH	CLAY:
15.5-16	8" Sonic		CLAY:
16-16.5	8" Sonic		Sandy CLAY:
16.5-17.5	8" Sonic		Sandy CLAY:
17.5-20	8" Sonic		CLAY:
20-21	8" Sonic		CLAY:
21-22	8" Sonic		CLAY:
22-24	8" Sonic		CLAY:
24-25	8" Sonic	SM	Silty SAND:
25-26.25	8" Sonic	SP/SM	SAND with silt:
26.25-27	8" Sonic	SP	SAND:
27-29	8" Sonic	SM	Silty SAND:
29-30	8" Sonic	CH	CLAY:
30-31	8" Sonic		CLAY:
31-32.5	8" Sonic	SP	SAND:
32.5-34	8" Sonic		SAND:
34-36	8" Sonic	CH	CLAY:
36-37	8" Sonic		CLAY:
37-39.5	8" Sonic	SP/SM	SAND with silt:
39.5-40.5	8" Sonic	SP	SAND:
40.5-41.5	8" Sonic		SAND:
41.5-43	8" Sonic	CH	CLAY:
43-44	8" Sonic	SP/SM	SAND with silt:
44-45	8" Sonic	SM	Silty SAND:
45-47.5	8" Sonic	SP	SAND:
47.5-50	8" Sonic	CH	CLAY:
50-52.5	8" Sonic		CLAY:
52.5-55	8" Sonic	SP	SAND:
55-61	8" Sonic		SAND:
61-62.5	8" Sonic	SW	SAND:
62.5-65	8" Sonic		SAND:
65-67.5	8" Sonic	SP	SAND:
67.5-69.5	8" Sonic	SW	SAND:
69.5-70	8" Sonic	CH	CLAY:

TD = 70'; PVC 4-inch screen from 55 to 65; PVC 4-inch riser from -2.5 to 55

Drilling Method: Guspech GS24-300RS, 8" Rotosonic

Drilling Company - Cascade Drilling

Driller - Daniel Dodge

Geologist - Michael Sauerwein

Above-grade, 5-foot long, 6-inch diameter, steel
Wellhead Protective Monument set in Concrete

~ 2.5-foot. stick-up

Ground Surface

8-inch diameter,
from 0 to 70-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 55 feet below ground surface (bgs)

Cement-Bentonite gel (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 48-feet bgs

At Time of Drilling,
Depth to Uppermost Ground
Water ~ 52.5-feet bgs

Bentonite medium chips,
from 48 to 53 feet bgs

Centralizers - placed at the bottom
and the top of the well screen.

Sand Filter Pack:
16/30 washed silica sand,
2-feet above screen
from 53 to 70 feet bgs

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 55 to 65 feet bgs

Total Depth (TD) = 70 feet bgs



IPSC – WASTEWATER SURFACE IMPOUNDMENT
DELTA, UTAH UTAH

Well WWC-3 Schematic

Date Drawn
7/30/15

Design by

Drawn by

MS

Scale

Last Revision
Date

WWC-4

Interval (feet)	Drilling Method	USCS	Sample Description
7/29/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-2.5	8" Sonic	SP/SM	SAND with silt:
2.5-5	8" Sonic		SAND with silt:
5-6.25	8" Sonic	ML	Sandy SILT:
6.25-7.25	8" Sonic	CL	CLAY:
7.25-8	8" Sonic	SC	Clayey SAND:
8-9	8" Sonic	SP/SC	SAND with clay:
9-10	8" Sonic	SP	SAND:
10-11	8" Sonic	ML	SILT:
11-12.5	8" Sonic	ML/CL	Clayey SILT:
12.5-14	8" Sonic	CL	CLAY:
14-15	8" Sonic		Sandy CLAY:
15-16	8" Sonic	SC	Clayey SAND:
16-18	8" Sonic		Clayey SAND:
18-19.5	8" Sonic	SM	Silty SAND:
19.5-20	8" Sonic	CH	CLAY:
20-21.25	8" Sonic		Sandy CLAY:
21.25-22.5	8" Sonic	SM	Silty SAND:
22.5-23.75	8" Sonic	CH	CLAY:
23.75-25	8" Sonic	SM	Silty SAND:
25-25.75	8" Sonic	SC	Clayey SAND:
25.75-27.5	8" Sonic	CL	Sandy CLAY:
27.5-29	8" Sonic	CH	CLAY:
29-30.5	8" Sonic		CLAY:
30.5-31.5	8" Sonic	SM	Silty SAND:
31.5-32.25	8" Sonic	CL	Sandy CLAY:
32.25-32.5	8" Sonic		Sandy CLAY:
32.5-33	8" Sonic	CH	CLAY:
33-36	8" Sonic	SP/SM	SAND with silt:
36-37	8" Sonic	SM	Silty SAND:
37-40	8" Sonic	SP	SAND:
40-42.5	8" Sonic		SAND:
42.5-45	8" Sonic		SAND:
45-46	8" Sonic	SP/SW	SAND:
46-46.5	8" Sonic	CH	CLAY:
46.5-47.5	8" Sonic		Sandy CLAY:
47.5-48.5	8" Sonic		CLAY:
48.5-50	8" Sonic		CLAY:
50-50.5	8" Sonic		CLAY:
50.5-52.5	8" Sonic	SM	Silty SAND:
52.5-54	8" Sonic	CH	CLAY:
54-55	8" Sonic	SP	SAND:
55-57	8" Sonic	CH	Sandy CLAY:
57-57.5	8" Sonic	SP	SAND:
57.5-60	8" Sonic	SM	Silty SAND:
60-62	8" Sonic		Silty SAND:
62-62.5	8" Sonic	SC	Clayey SAND:
62.5-63	8" Sonic	CH	Sandy CLAY:
63-65	8" Sonic	SM	Silty SAND:
65-67.5	8" Sonic	SW	SAND:
67.5-69.5	8" Sonic	SP	SAND:
69.5-70	8" Sonic	SW	SAND:
70-72	8" Sonic		SAND:
72-72.5	8" Sonic	SP/SM	SAND with silt:
72.5-75	8" Sonic	SM	Silty SAND:
75-80	8" Sonic	CH	CLAY:

TD = 80'; PVC 4-inch screen from 65 to 75; PVC 4-inch riser from -2.5 to 65
Drilling Method: Guspech GS24-300RS, 8" Rotasonic

Drilling Company - Cascade Drilling
Driller - Daniel Dodge
Geologist - Michael Sauerwein

Above-grade, 5-foot long, 6-inch diameter, steel
Wellhead Protective Monument set in Concrete

~ 2.5-foot. stick-up

Ground Surface

8-inch diameter,
from 0 to 80-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 65 feet below ground surface (bgs)

Cement-Bentonite gel (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 58-feet bgs

Bentonite medium chips,
from 58 to 63 feet bgs

At Time of Drilling,
Depth to Uppermost Ground
Water ~ 65-feet bgs

Centralizers placed ~ the bottom
and the top of the well screen.

Sand Filter Pack:
16/30 washed silica sand,
2-feet above screen
from 63 to 80 feet bgs

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 65 to 75 feet bgs

Total Depth (TD) = 80 feet bgs



IPSC – WASTEWATER SURFACE IMPOUNDMENT
DELTA, UTAH

Well WWC-4 Schematic

Date Drawn
7/29/15

Design by

Drawn by

MS

Scale

Last Revision
Date

Boring Logs
ISPC
Delta, Utah

WWC-5

Interval (feet)	Drilling Method	USCS	Sample Description
7/28/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand, Gravel, roots, coal ash.
0.5-2	8" Sonic	ML	Sandy SILT:
2-2.5	8" Sonic	SP/SM	SAND with silt:
2.5-4.25	8" Sonic	SM	Silty SAND:
4.25-5	8" Sonic	SP	SAND:
5-7.5	8" Sonic	ML	Clayey SILT:
7.5-9	8" Sonic	CL	Silty CLAY:
9-10	8" Sonic		Sandy CLAY:
10-10.5	8" Sonic	SC	Clayey SAND:
10.5-11.25	8" Sonic	CL	CLAY:
11.25-12.5	8" Sonic	ML	Clayey SILT:
12.5-13.25	8" Sonic	SM	Silty SAND:
13.25-13.75	8" Sonic	SC	Clayey SAND:
13.75-15	8" Sonic	CL	CLAY:
15-16	8" Sonic		CLAY:
16-17.5	8" Sonic	CH	CLAY:
17.5-19	8" Sonic	SC	Clayey SAND:
19-20.5	8" Sonic	CH	CLAY:
20.5-21.25	8" Sonic		Sandy CLAY:
21.25-22	8" Sonic		CLAY:
22-22.5	8" Sonic	SC	Clayey SAND:
22.5-24	8" Sonic	SM	Silty SAND:
24-25	8" Sonic	CH	CLAY:
25-26	8" Sonic	SM/CH	Silty SAND / CLAY:
26-27.5	8" Sonic	CH	CLAY:
27.5-28	8" Sonic		Sandy CLAY:
28-28.25	8" Sonic	SM	Silty SAND:
28.25-30	8" Sonic	CH	CLAY:
30-32.5	8" Sonic	SP	SAND:
32.5-34	8" Sonic		SAND:
34-37.5	8" Sonic		SAND:
37.5-40	8" Sonic	SP/SM	SAND with silt:
40-42.5	8" Sonic	CH	CLAY:
42.5-42.75	8" Sonic	SM	Silty SAND:
42.75-44	8" Sonic	CH	Sandy CLAY:
44-44.5	8" Sonic	SM	Silty SAND:
44.5-45	8" Sonic		Silty SAND:
45-45.5	8" Sonic		Silty SAND:
45.5-46.75	8" Sonic		Silty SAND:
46.75-47.5	8" Sonic	CH	CLAY:
47.5-50	8" Sonic		CLAY:
50-50.5	8" Sonic		Sandy CLAY:
50.5-51.5	8" Sonic		CLAY:
51.5-52	8" Sonic	SM	Silty SAND:
52-53.25	8" Sonic	CH	CLAY:
53.25-53.5	8" Sonic		CLAY:
53.5-54	8" Sonic	SC	Clayey SAND:
54-55	8" Sonic	SM/SC	Silty SAND and clay:
55-57.5	8" Sonic	SP	SAND:
57.5-60	8" Sonic		SAND:
60-60.75	8" Sonic		SAND:
60.75-61.5	8" Sonic	CH	CLAY:
61.5-62.5	8" Sonic	SP/SM	SAND with silt:
62.5-64	8" Sonic		SAND with silt:
64-65	8" Sonic	SW	SAND:
65-67.5	8" Sonic		SAND with gravel:
67.5-70	8" Sonic		Gravelly SAND:
70-72.5	8" Sonic		SAND:
72.5-75	8" Sonic		SAND:

TD = 75'; PVC 4-inch screen from 64 to 74; PVC 4-inch riser from -2.5 to 64
Drilling Method: Guspech GS24-300RS, 8" Rotasonic

Drilling Company - Cascade Drilling
Driller - Daniel Dodge
Geologist - Michael Sauerwein

Above-grade, 5-foot long, 6-inch diameter, steel
Wellhead Protective Monument set in Concrete

~ 2.5-foot. stick-up

Ground Surface

8-inch diameter,
from 0 to 75-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 64 feet below ground surface (bgs)

Cement-Bentonite gel (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 57-feet bgs

At Time of Drilling,
Depth to Uppermost Ground
Water ~ 61.5-feet bgs

Bentonite medium chips,
from 57 to 62 feet bgs

16/30 washed silica sand,
2-feet above screen
from 62 to 75 feet bgs

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 64 to 74 feet bgs

Centralizers - placed at the bottom
and the top of the well screen.

Total Depth (TD) = 75 feet bgs



IPSC – WASTEWATER SURFACE IMPOUNDMENT
DELTA, UTAH

Well WWC-5 Schematic

Date Drawn
7/28/15

Design by

Drawn by

MS

Scale

Last Revision
Date

Boring Logs

ISPC

Delta, Utah

WWC-6

Interval (feet)	Drilling Method	USCS	Sample Description
03/23/2018 - 03/24/2018			
0-0.5	8" Sonic	SM	Silty sand
0.7-7	8" Sonic	SP	Sand, poorly graded, dry
7-12.5	8" Sonic	CH	Silty clay
12.5-15.5	8" Sonic	SM	Sand, some silt
15.5-19.5	8" Sonic	SP	Sand, poorly graded
19.5-21.5	8" Sonic	SW/GW	Sand and gravel
21.5-27	8" Sonic	SP	Sand, poorly graded, running sands @ ~26
27-29.5	8" Sonic	SP	Sand, poorly graded, running sands
29.5-30	8" Sonic	SW	Sand with gravel
30-37	8" Sonic	CH	Clay, stiff
37-41	8" Sonic	CH	Clay, trace silt, moist, stiff
41-47	8" Sonic	CH	Clay, stiff, moist
47-48	8" Sonic	SP	Sand
48-57	8" Sonic	SW	Sand, silt and gravel
57-59	8" Sonic	SP	Sand
59-60.5	8" Sonic	CH	Clay wet
60.5-64.5	8" Sonic	MH	Silt, trace clay
64.5-67	8" Sonic	CH	Clay wet
67-72	8" Sonic	CH	Clay wet
72-77	8" Sonic	SP	Sand, saturated
77-87	8" Sonic	CH	Clay

TD = 87'; PVC sump 87-77; 4" screen 77-67; sand 87-62 centralizers 67.5 and 76.5

Drilling Method: Sonic

Drilling Company - Cascade Drilling

Driller - David Donnely

Geologist - Tom Fendler

Flush-mount, Wellhead Protective Vault, 8-inch diameter, steel lid

Ground Surface

Concrete Apron

Borehole:
8-inch diameter,
from 0 to 87-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 0.25 - 67 feet bgs

Cement-Bentonite (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 57-feet bgs

Bentonite medium chips, from 57
to 62 feet bgs

At Time of Drilling, Depth to
Uppermost Ground Water ~ 72 to 77-
feet bgs

Centralizers placed ~ the bottom
and the top of the well screen.

Sand Filter Pack:
(16/30 washed silica sand,
2-feet above screen
from 62 to 87 feet bgs)

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 67 to 77 feet bgs...with 10-ft. solid
PVC sump at 77 to 87 feet bgs.

Total Depth (TD) = 87 feet bgs



IPSC – WASTEWATER SURFACE IMPOUNDMENT
Delta, Utah

Well WWC-6 Schematic

Date Drawn
10/24/1
8
Last Revision
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Boring Logs

ISPC

Delta, Utah

WWC-7

Interval (feet)	Drilling Method	USCS	Sample Description
03/20/2018 - 03/23/2018			
0-1.5	8" Sonic	SM	Silty sand, dry
1.5-8.5	8" Sonic	SP	Sand, poorly graded, saturated at 7.5
8.5-9	8" Sonic	CH	Sandy clay
9-14	8" Sonic	SC	Clay with trace sand
14-24	8" Sonic	SP	Sand, poorly graded, saturated with heaving sands at 17'
24-25	8" Sonic	SW/GW	Gravel/sand and gravel
25-27	8" Sonic	CH	Clay, moist
27-34.5	8" Sonic	SP	Sandy, wet
34.5-35.5	8" Sonic	SW/GW	Sand, some gravel
35.5-37	8" Sonic	CH	Clay, moist, stiff
37-47	8" Sonic	CH	Clay, moist, stiff
47-49.5	8" Sonic	CH	Clay, moist, stiff
49.5-50.5	8" Sonic	SP	Sand, poorly sorted, moist
50.5-57	8" Sonic	CH	Clay, moist, stiff
57-67	8" Sonic	CH	Clay, moist, stiff
67-72	8" Sonic	CH	Clay, moist, stiff
72-77	8" Sonic	SP	Sand, poorly graded, saturated @76.5
77-87	8" Sonic	SP	Sand, poorly graded, saturated

TD = 87'; PVC 4-inch screen from 77 to 87; sand pack 72-87; bentonite pellets 67-72; grout 67-grade

Drilling Method: Sonic

Drilling Company - Cascade Drilling

Driller - David Donnelly

Geologist - Tom Fendler

Flush-mount, Wellhead Protective Vault, 8-inch diameter, steel lid

Ground Surface

Concrete Apron

4-inch diameter, Sch. 40 PVC,
from ~ 0.25 - 77 feet bgs

Borehole:
8-inch diameter,
from 0 to 87-feet bgs

Cement-Bentonite (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 67-feet bgs

Bentonite medium chips, from 67
to 72 feet bgs

At Time of Drilling, Depth to
Uppermost Ground Water ~ 72 to 77-
feet bgs

Centralizers placed ~ the bottom
and the top of the well screen.

Sand Filter Pack:
(16/30 washed silica sand,
2-feet above screen
from 72 to 87 feet bgs)

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 77 to 87 feet bgs

Total Depth (TD) = 87 feet bgs



IPSC – WASTEWATER SURFACE IMPOUNDMENT
DELTA, UTAH

Well WWC-7 Schematic

Date Drawn
10/24/1
8
Last Revision
Date

Design by

Drawn by JR

Scale



Project Name: Intermountain Power Service Corporation

Boring Monitor Well: WWC-8

Drilling Firm: Cascade

Boring Method: Sonic

Boring Diameter: 10 inches

Project No.: 203709098

Completion Date: 2019-04-25

Driller: Ryan Miller

Logged by: Rich Pratt

Depth to Water at Drilling: 77 feet

Depth to Water at Drilling (static at 24 hours): 27 feet

WWC-8

Interval (feet)	Description
0 - 3	Light brown sand, moist
3 - 7	Light brown sand with silt, dry
7 - 9	Medium brown clay with sand, moist
9 - 13	Medium brown clay, moist
13 - 15	Light brown clay, moist
15 - 17	Light brown clay, dry
17 - 26	Light brown clay, moist
26 - 35	Light brown clay with sand, moist
35 - 37	Light brown clay, moist
37 - 41	Medium brown medium grained sand, moist
41 - 43	Medium brown medium grained sand, moist
43 - 55	Medium brown medium grained sand, moist
55 - 59	Light brown clay, moist
59 - 63	Light brown clay with sand, moist
63 - 66	Light brown clay, moist
66 - 67	Light brown clay with sand, moist
67 - 68	Light brown sand, moist
68 - 77	Light brown clay with sand, moist
77 - 88	Medium brown sand, saturated
88 - 93	Light brown clay
93 - 94	Light brown clay with sand
94 - 96	Light brown clay
96 - 97	Medium brown sand

Well Completion materials and Depth Intervals (feet) Below Ground Surface

Surface Completion: Stick-up

Casing, solid (6-inch PVC): 0-69.38 feet

Screen (6 inch, 0.02 slotted, PVC): 69.38-94.38 feet

Sand Pack: 16/30 sand, 64.38-94.38 feet

Bentonite Seal: Hydrolyzed bentonite pellet seal
57.38-64.38 feet

Top of 6 in. PVC Casing Elevation (Relative Datum Survey): NA

Top of Manhole Cover (Relative Datum Survey):
NA

Top of PVC casing above ground surface ~ 2.02 feet. stick-up

Above-grade, 5-feet. long, 8-in. square, steel Wellhead Protective Monument ~ 2.57 feet. stick-up

Ground Surface

6-inch Diameter, Sch 40 PVC Well Casing from below top of casing - 96.4 feet

Cement-Bentonite (~ 10:1) Grout, Tremie-Pipe Slurry from 0 to 57.38 feet below ground surface (bgs)

10-inch boring from 0 to 94.38-feet bgs

Medium bentonite chips From 57.38 to 64.38 feet bgs

Sand Filter Pack (16/30 washed, silica sand, 5 feet above screen from 64.38 to 94.38 feet bgs)

At Time of Drilling, Depth to Uppermost Ground Water ~ 77 feet bgs

Centralizers - placed at the bottom and at 25-30 foot intervals

25-feet; 6-inch 0.020-slotted, PVC well screen from 69.38 to 94.38 feet bgs

Total Depth (TD) = 94.38 feet bgs



IPSC – WASTEWATER SURFACE IMPOUNDMENT
DELTA, UTAH

WWC-8 Schematic

Date Drawn
6-4-19

Design by

Drawn by

RP

Scale

Last Revision
Date



Project Name: Intermountain Power Service Corporation

Boring Monitor Well: WWC-9

Project No.: 203709098

Completion Date: 2019-04-28

Drilling Firm: Cascade

Boring Method: Sonic

Boring Diameter: 10 inches

Driller: Ryan Miller

Logged by: Rich Pratt

Depth to Water at Drilling: 67 feet

Depth to Water at Drilling (static at 24 hours):
23.75 feet

WWC-9

Interval (feet)	Description
0 - 0.5	Medium brown silt, dry
0.5 - 1	Medium brown clay, dry
1 - 4	Light brown fine-grained sand, dry
4 - 8	Light brown clay, dry
8 - 13	Light brown fine-grained sand, dry
13 - 15	Light brown clay, dry
15 - 16	Light brown clay with sand, dry
16 - 17	Light brown clay, dry
17 - 18	Light brown clay with sand, moist
18 - 21.5	Light brown clay, moist
21.5 - 22	Light brown clay with sand, moist
22 - 23	Light brown clay, moist
23 - 26	Light brown clay with sand, moist
26 - 27	Light brown clay, moist
27 - 30	Light brown clay, moist
30 - 31	Light brown clay, saturated
31 - 32	Light brown clay with sand, moist
32 - 36	Light brown clay, moist
36 - 37	Light brown clay with sand, moist
37 - 38	Light brown clay with sand, moist
38 - 51	Medium brown medium grained sand, moist
51 - 54	Light brown clay, moist
54 - 58	Medium brown medium grained sand, moist
58 - 59	Medium brown medium grained sand, moist
59 - 62	Medium brown medium grained sand, moist
62 - 63	Light brown clay, moist to moist
63 - 66	Light brown clay with sand, moist
66 - 67	Light brown clay, moist
67 - 69	Light brown clay with sand, saturated

Interval (feet)	Description
69 – 69.5	Medium brown sand
69.5 - 70	Light brown clay with sand
70 - 71	Light brown clay
71 - 74	Light brown clay with sand
74 - 75	Medium brown sand
75 - 77	Light brown clay
77 - 83	Medium brown sand
83 - 85	Light brown clay
85 - 87	Light brown clay with sand

Well Completion materials and Depth Intervals (feet) Below Ground Surface

Surface Completion: Stick-up

Casing, solid (6-inch PVC): 0-61.7 feet

Screen (6 inch, 0.02 slotted, PVC): 61.7-86.7 feet

Sand Pack: 16/30 sand, 56.7-86.7 feet

Bentonite Seal: Hydrolyzed bentonite pellet seal
49.7-56.7 feet

Top of 6 in. PVC Casing Elevation (Relative Datum Survey): NA

Top of Manhole Cover (Relative Datum Survey):
NA

Top of PVC casing above ground surface ~ 2.45 feet. stick-up

Above-grade, 5-feet. long, 8-in. square, steel Wellhead Protective Monument ~ 3.24 feet. stick-up

Ground Surface

6-inch Diameter, Sch 40 PVC Well Casing from below top of casing - 89.15 feet

Cement-Bentonite (~ 10:1) Grout, Tremie-Pipe Slurry from 0 to 49.7 feet below ground surface (bgs)

10-inch boring from 0 to 86.7-feet bgs

Medium bentonite chips From 49.7 to 56.7 feet bgs

Sand Filter Pack (16/30 washed, silica sand, 5 feet above screen from 56.7 to 86.7 feet bgs)

At Time of Drilling, Depth to Uppermost Ground Water ~ 67 feet bgs

Centralizers - placed at the bottom and at 25-30 foot intervals

25-feet; 6-inch 0.020-slotted, PVC well screen from 61.7 to 86.7 feet bgs

Total Depth (TD) = 86.7 feet bgs



IPSC – WASTEWATER SURFACE IMPOUNDMENT
Delta, Utah

WWC-9 Schematic

Date Drawn
6-4-19

Design by

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RP

Scale

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Date



Project Name: Intermountain Power Service Corporation

Boring Monitor Well: WWC-10

Project No.: 203709098

Completion Date: 2019-04-26

Drilling Firm: Cascade

Boring Method: Sonic

Boring Diameter: 10 inches

Driller: Ryan Miller

Logged by: Rich Pratt

Depth to Water at Drilling: 67 feet

Depth to Water at Drilling (static at 24 hours):
17.65 feet

WWC-10

Interval (feet)	Description
0 - 5	Light brown sand, moist
5 - 9.5	Light brown clay with sand, moist
9.5 - 13	Dark gray clay, moist
13 - 14	Dark brown silt with organic plant matter, moist
14 - 15	Dark gray clay, moist
15 - 17	Gray medium grained sand, moist
17 - 34	Gray medium grained sand, moist
34 - 45	Brown medium grained sand, moist
45 - 47	Medium brown clay, moist
47 - 49	Medium brown clay with sand, moist
49 - 50	Medium brown medium grained sand, moist
50 - 51	Medium brown clay with sand, moist
51 - 52	Medium brown medium grained sand, moist
52 - 53	Medium brown clay with sand, moist
53 - 54	Medium brown medium grained sand, moist
54 - 60	Medium brown clay, moist
60 - 61	Medium brown clay with sand, moist
61 - 67	Medium brown clay, moist
67 - 68	Medium brown clay, saturated
68 - 69	Medium brown clay with sand
69 - 70	Medium brown clay
70 - 76	Medium brown clay with sand
76 - 87	Medium brown clay

Well Completion materials and Depth Intervals (feet) Below Ground Surface

Surface Completion: Stick-up

Casing, solid (6-inch PVC): 0-62.75 feet

Screen (6 inch, 0.02 slotted, PVC): 62.75-87.75 feet

Sand Pack: 16/30 sand, 57.75-87.75 feet

Bentonite Seal: Hydrolyzed bentonite pellet seal
50.75-57.75 feet

Top of 6 in. PVC Casing Elevation (Relative Datum Survey): NA

Top of Manhole Cover (Relative Datum Survey):
NA

Top of PVC casing above ground surface ~ 2.35 feet. stick-up

Above-grade, 5-feet. long, 8-in. square, steel Wellhead Protective Monument ~ 3.17 feet. stick-up

Ground Surface

6-inch Diameter, Sch 40 PVC Well Casing from below top of casing - 90.1 feet

Cement-Bentonite (~ 10:1) Grout, Tremie-Pipe Slurry from 0 to 50.75 feet below ground surface (bgs)

10-inch boring from 0 to 87.75-feet bgs

Medium bentonite chips From 50.75 to 57.75 feet bgs

Sand Filter Pack (16/30 washed, silica sand, 5 feet above screen from 57.75 to 87.75 feet bgs)

At Time of Drilling, Depth to Uppermost Ground Water ~ 67 feet bgs

Centralizers - placed at the bottom and at 25-30 foot intervals

25-feet; 6-inch 0.020-slotted, PVC well screen from 62.75 to 87.75 feet bgs

Total Depth (TD) = 87.75 feet bgs



IPSC – WASTEWATER SURFACE IMPOUNDMENT
DELTA, UTAH

WWC-10 Schematic

Date Drawn
6-4-19

Design by

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RP

Scale

Last Revision
Date

MONITORING WELL ID: **WWC-11**

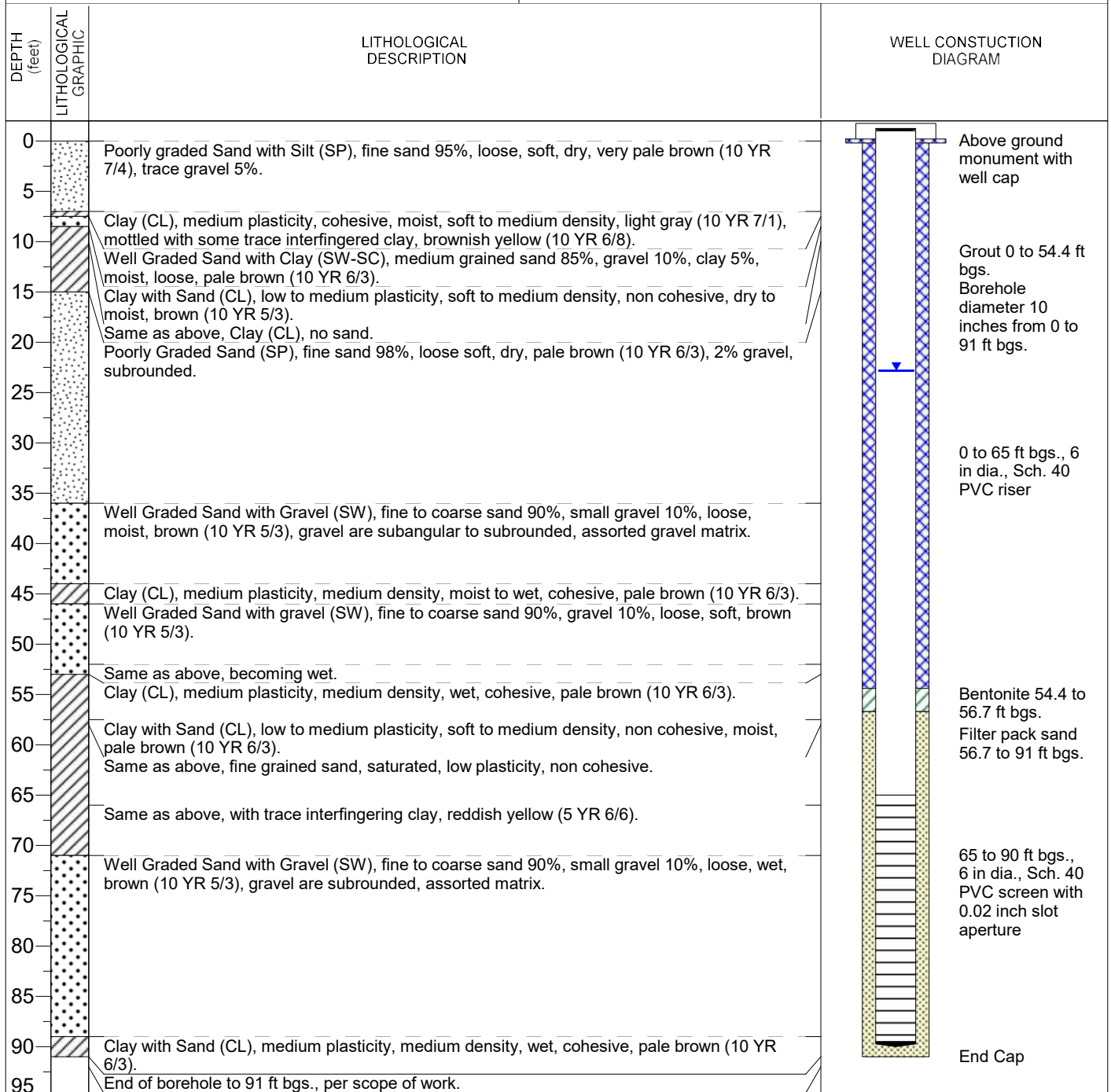


CLIENT: Intermountain Power Service Corporation
 PROJECT: Monitoring Well Installation
 SITE LOCATION: South of Waste Water Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling
 DRILLING METHOD: Sonic
 DRILLING EQUIPMENT: Pro Sonic 600 11-77287
 SAMPLING METHOD: 4 inch sonic core barrel 0 to 91 ft bgs.,
 10 inch sonic core barrel 0 to 91 ft bgs.

COORDINATE SYSTEM:
 EASTING: NORTHING:
 ELEVATION: BOREHOLE ANGLE: 90 degrees
 TOTAL DEPTH (ft.): 91 GROUNDWATER LEVEL (ft. btoc.): 22.82
 DATE STARTED: 11/15/2019 DATE FINISHED: 11/16/2019
 LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
 dia. = diameter YR = Yellow-Red
 ft = feet

MONITORING WELL ID: **WWC-12**



CLIENT: Intermountain Power Service Corporation
 PROJECT: Monitoring Well Installation
 SITE LOCATION: South of Waste Water Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600 11-77287

SAMPLING METHOD: 4 inch sonic core barrel 0 to 91 ft bgs.,
 10 inch sonic core barrel 0 to 91 ft bgs.

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

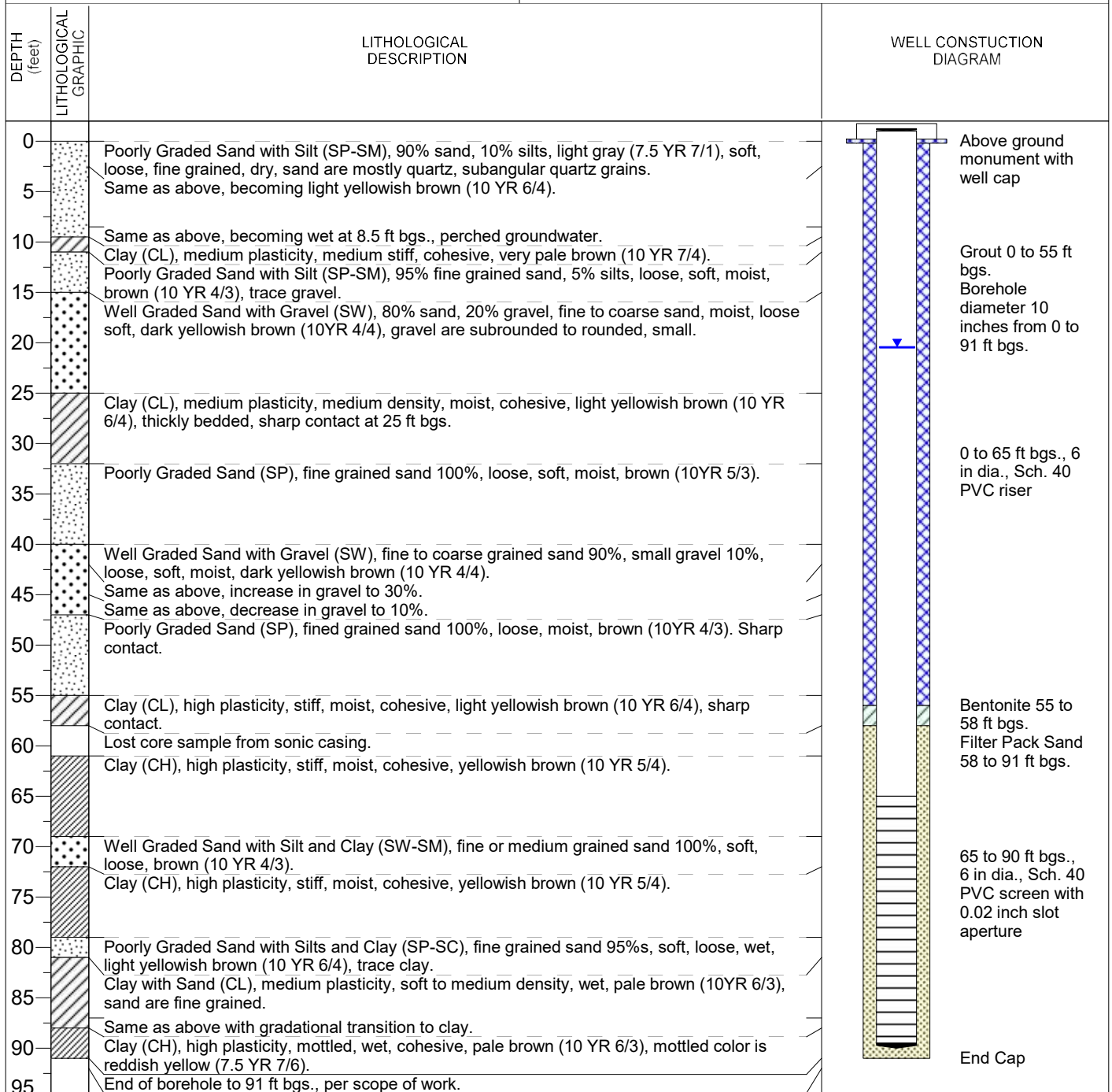
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 91

GROUNDWATER LEVEL (ft. btoc.): 20.46

DATE STARTED: 11/11/2019 DATE FINISHED: 11/12/2019

LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
 dia. = diameter YR = Yellow-Red
 ft = feet

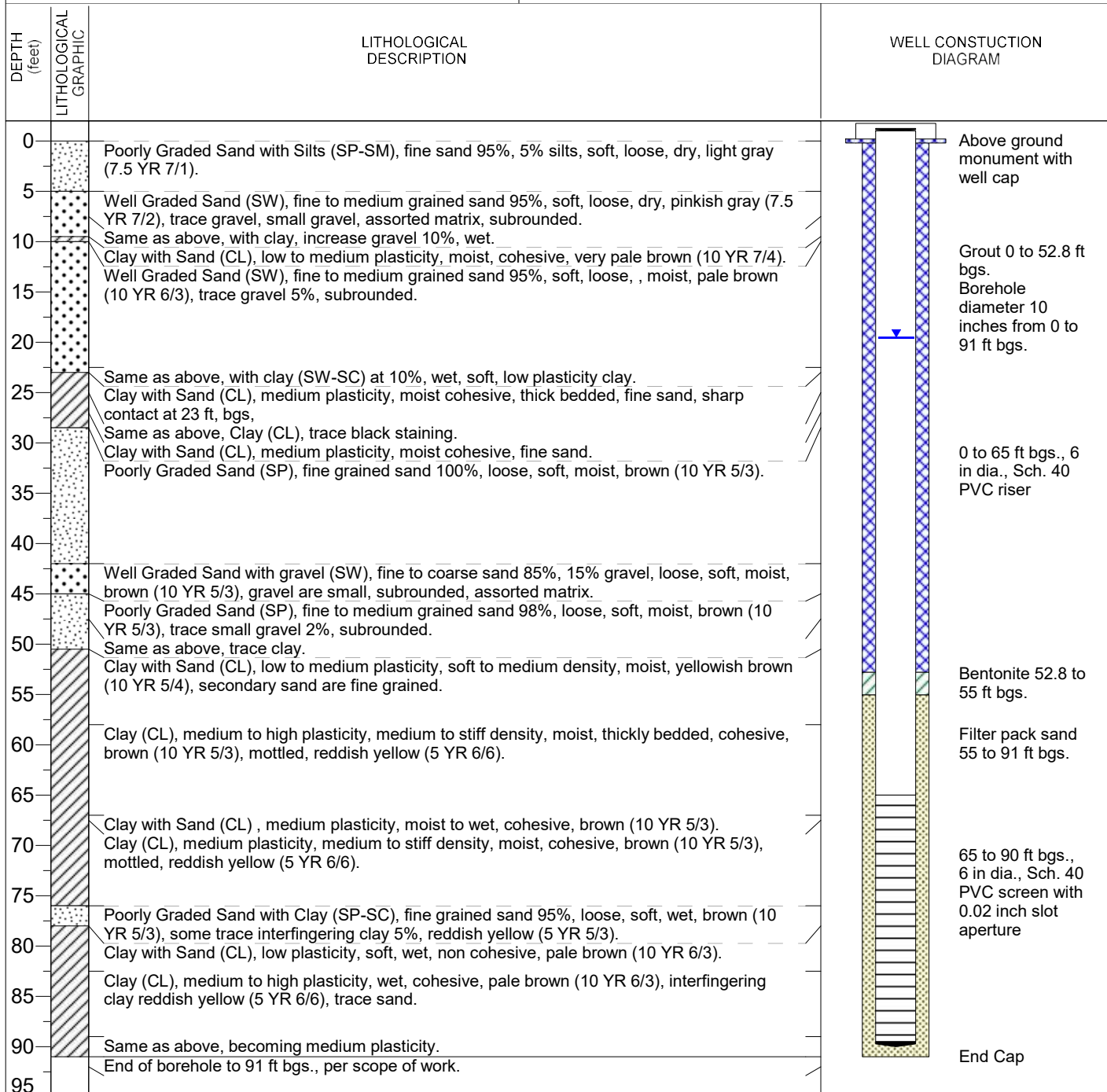
MONITORING WELL ID: **WWC-13**



CLIENT: Intermountain Power Service Corporation
 PROJECT: Monitoring Well Installation
 SITE LOCATION: South of Waste Water Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling	COORDINATE SYSTEM:
DRILLING METHOD: Sonic	EASTING: NORTHING:
DRILLING EQUIPMENT: Pro Sonic 600 11-77287	ELEVATION: BOREHOLE ANGLE: 90 degrees
SAMPLING METHOD: 4 inch sonic core barrel 0 to 91 ft bgs., 10 inch sonic core barrel 0 to 91 ft bgs.	TOTAL DEPTH (ft.): 91 GROUNDWATER LEVEL (ft. btoc.): 19.55
	DATE STARTED: 11/13/2019 DATE FINISHED: 11/15/2019
	LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
 dia. = diameter YR = Yellow-Red
 ft = feet

MONITORING WELL ID: **WWC-14**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South of Waste Water Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 88 ft bgs.,
10 inch sonic core barrel 0 to 88 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

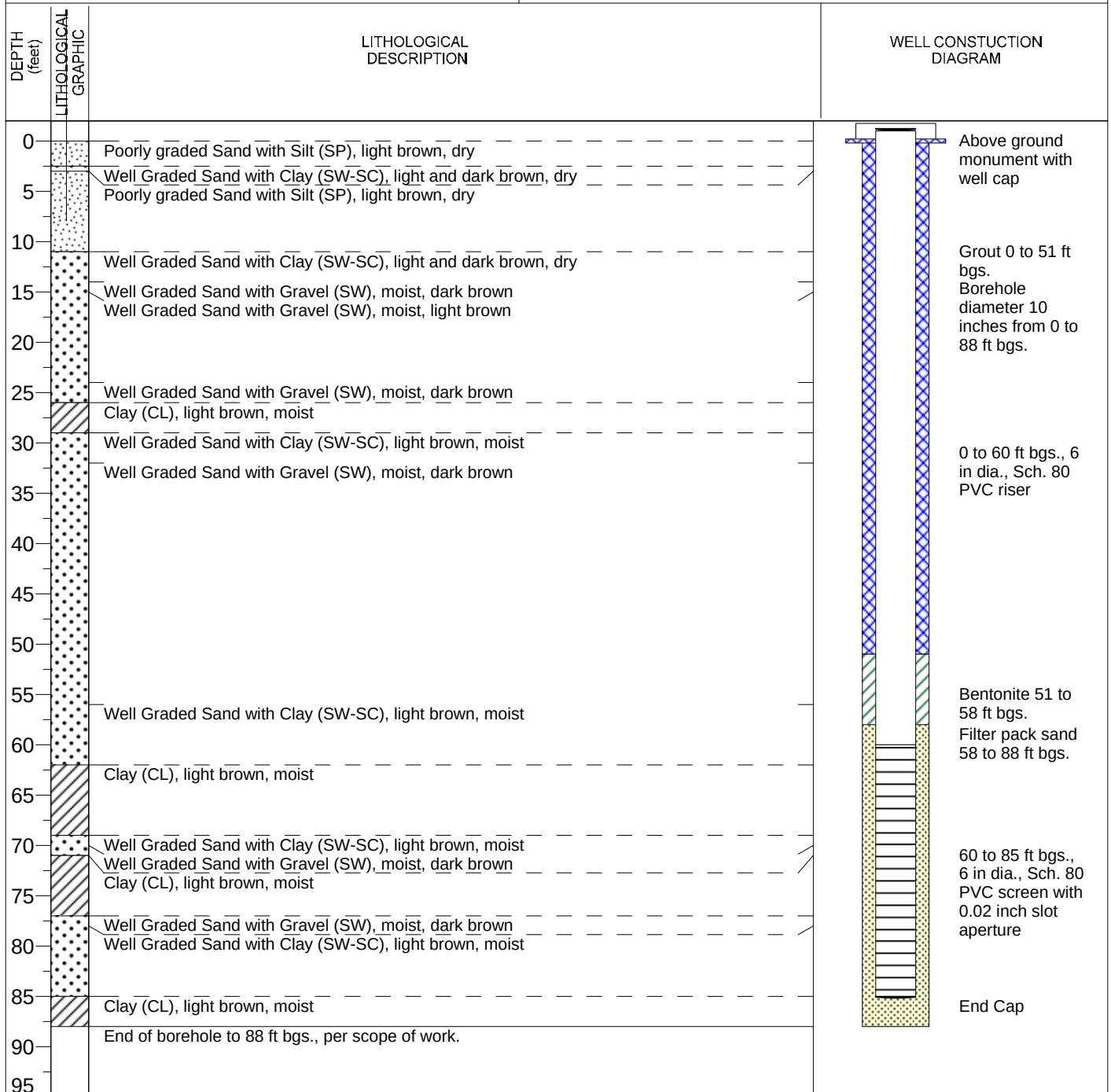
TOTAL DEPTH (ft.): 88

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/6/2020

DATE FINISHED: 5/7/2020

LOGGED BY: Rich Pratt



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **WWC-15**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South of Waste Water Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 88 ft bgs.,
10 inch sonic core barrel 0 to 88 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

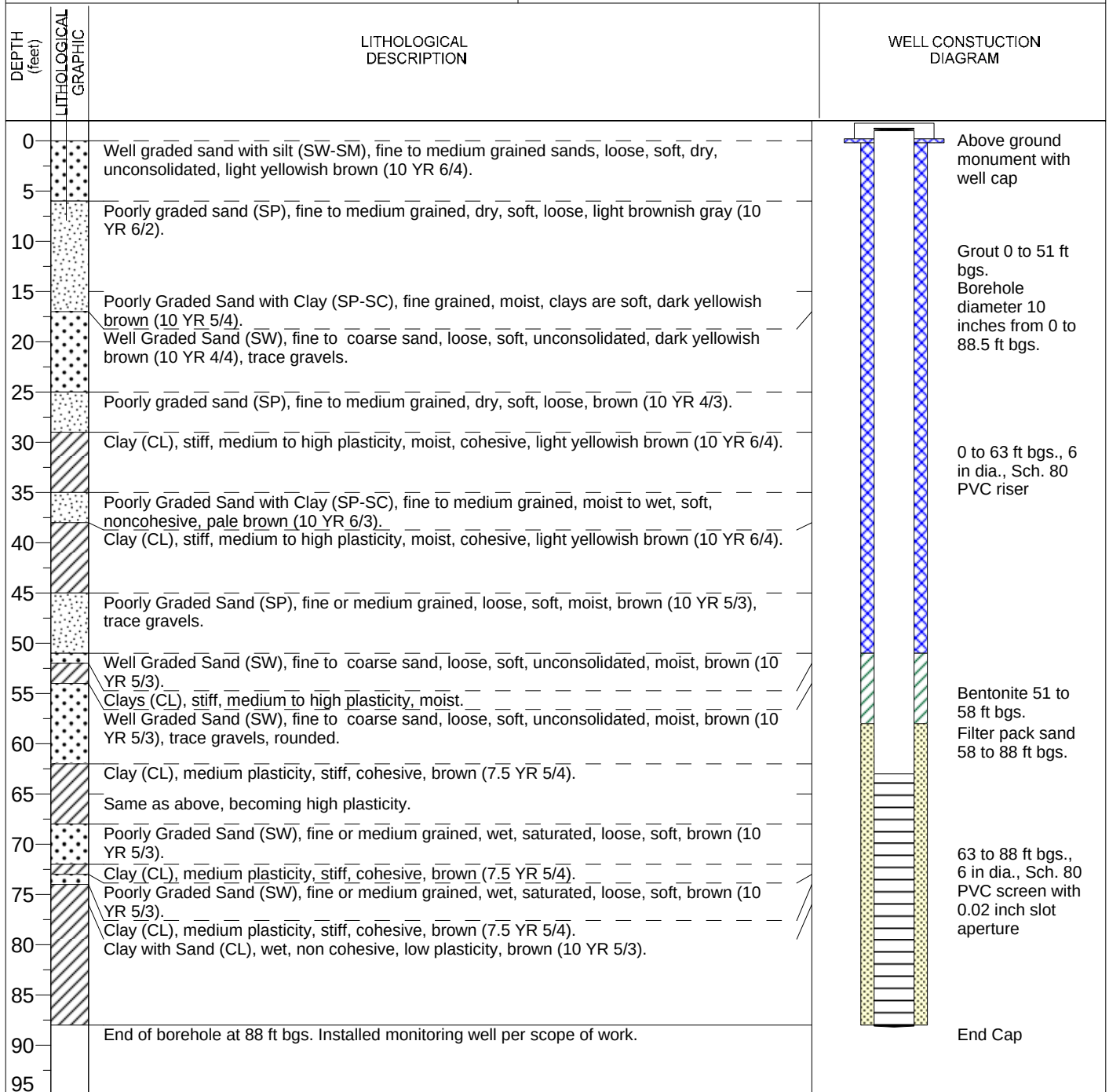
TOTAL DEPTH (ft.): 88

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/6/2020

DATE FINISHED: 5/7/2020

LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet



MONITORING WELL ID: **WWC-16**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South of Waste Water Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 88 ft bgs.,
10 inch sonic core barrel 0 to 88 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

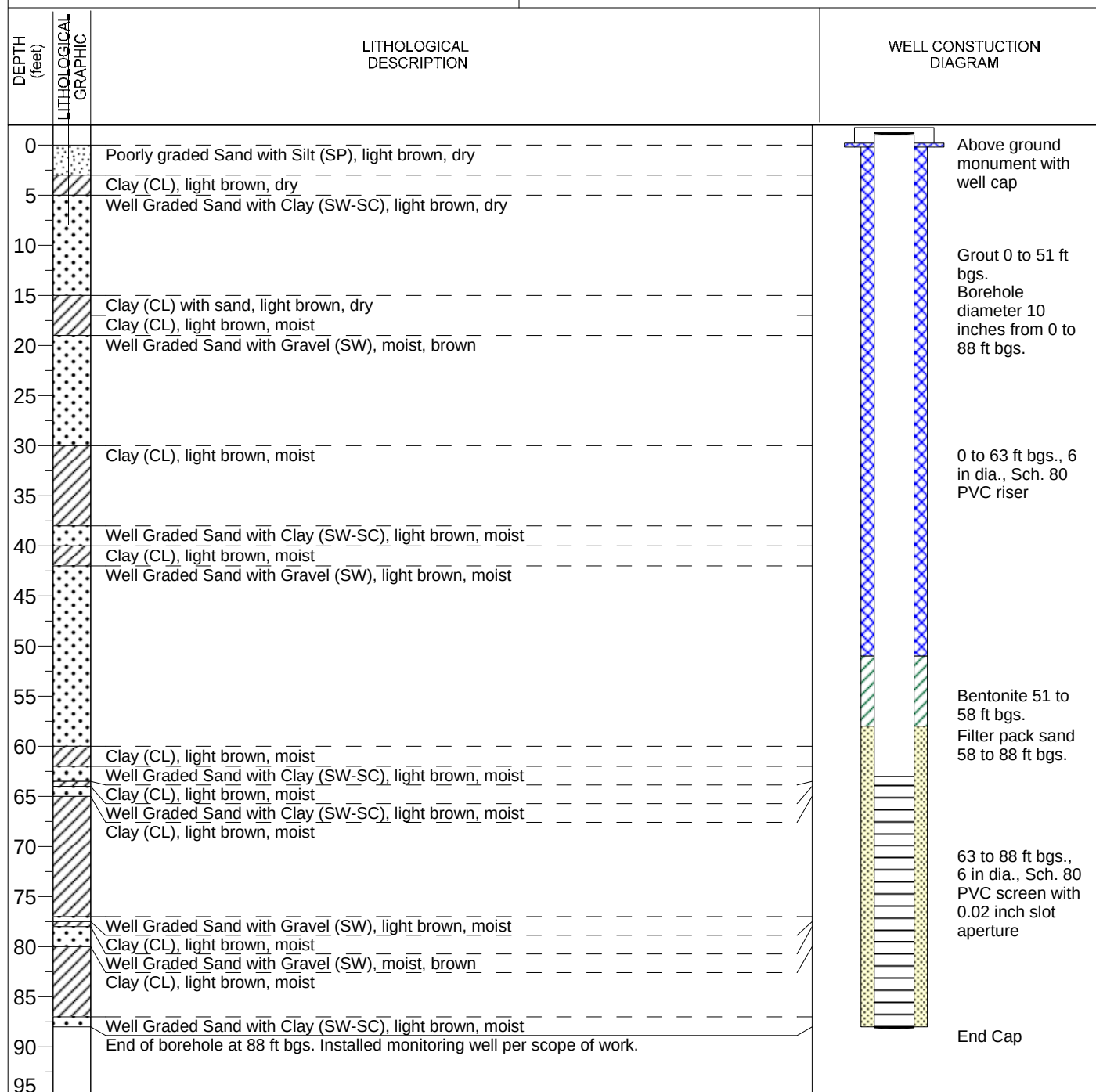
TOTAL DEPTH (ft.): 88

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/7/2020

DATE FINISHED: 5/8/2020

LOGGED BY: Rich Pratt



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **WWC-17**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: South of Waste Water Basin Surface Impoundment



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600

SAMPLING METHOD: 4 inch sonic core barrel 0 to 91 ft bgs.,
10 inch sonic core barrel 0 to 91 ft bgs.,

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

BOREHOLE ANGLE: 90 degrees

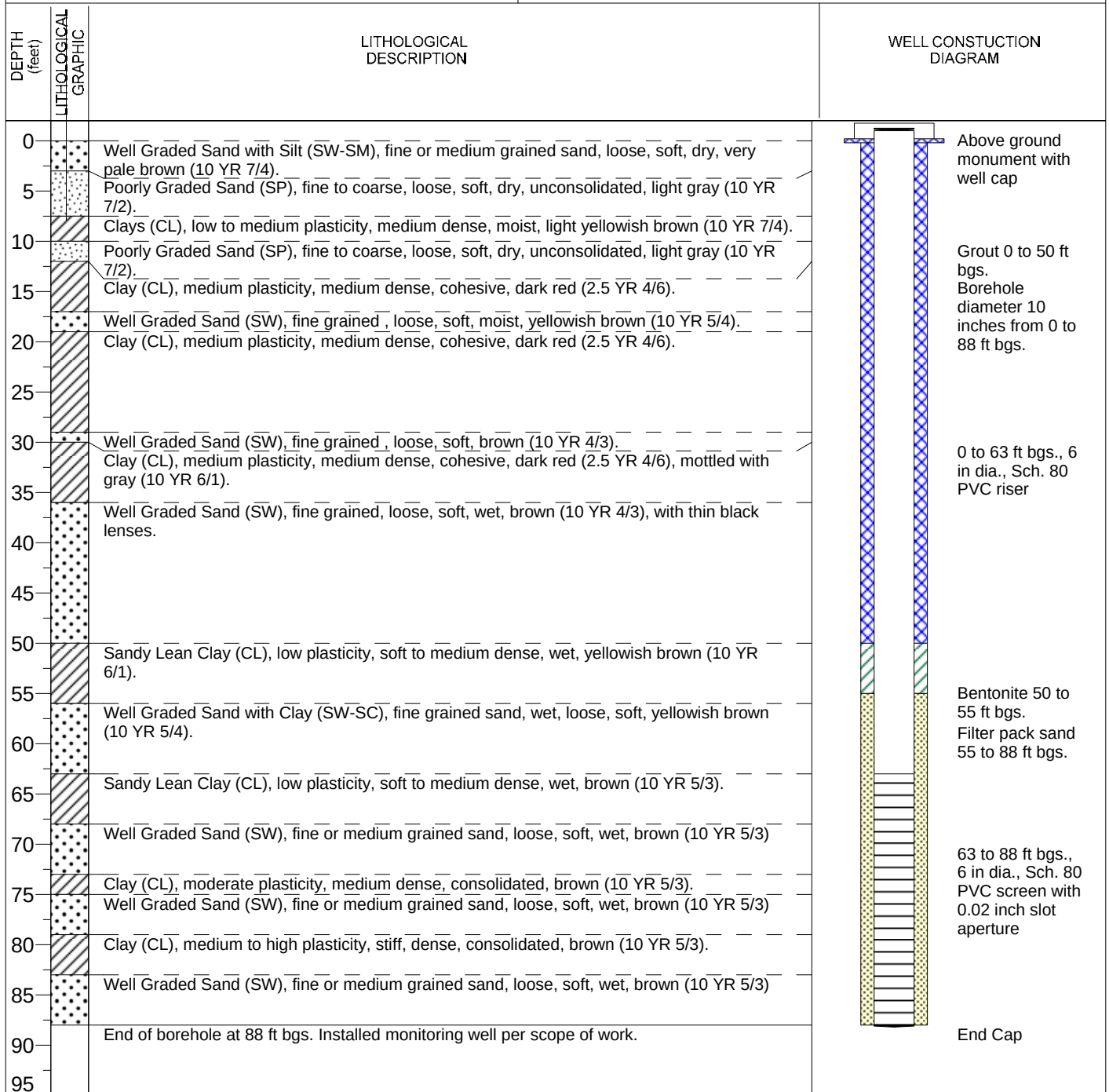
TOTAL DEPTH (ft.): 88

GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 5/8/2020

DATE FINISHED: 5/8/2020

LOGGED BY: Michael Ward



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

WWU-1

Interval (feet)	Drilling Method	USCS	Sample Description
8/11/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand and Gravel.
0.5-1.5	8" Sonic	SM	Silty SAND:
1.5-2.5	8" Sonic	SP/SM	SAND with silt:
2.5-3.5	8" Sonic	ML	Sandy SILT:
3.5-4.75	8" Sonic	SP	SAND:
4.75-5	8" Sonic	SC	Clayey SAND:
5-7	8" Sonic	SP/SM	SAND with silt:
7-10.75	8" Sonic	SC	Clayey SAND:
10.75-12.5	8" Sonic	SP/SM	SAND with silt:
12.5-13	8" Sonic	SC	Clayey SAND:
13-14	8" Sonic	SM	Silty SAND:
14-15	8" Sonic	SP	SAND:
15-17.5	8" Sonic	SP/SM	SAND with silt:
17.5-20	8" Sonic	SP	SAND:
20-22	8" Sonic	SP/SM	SAND with silt:
22-22.5	8" Sonic	SC	Clayey SAND:
22.5-25	8" Sonic	CL	Sandy CLAY:
25-27.5	8" Sonic		Sandy CLAY:
27.5-28	8" Sonic	SC	Clayey SAND:
28-30	8" Sonic	SW	Gravelly SAND:
30-32.5	8" Sonic	SP/SM	SAND with silt:
32.5-35	8" Sonic	SM	Silty SAND:
35-37.5	8" Sonic	SP	SAND:
37.5-40	8" Sonic		SAND:
40-42.5	8" Sonic	SW/SM	SAND with silt:
42.5-43.25	8" Sonic	SM	Silty SAND:
43.25-44.25	8" Sonic		Silty SAND:
44.25-45	8" Sonic	SP/SW	SAND:
45-47.5	8" Sonic	SW	SAND:
47.5-50	8" Sonic	SP	SAND:
50-50.5	8" Sonic		SAND:
50.5-51.75	8" Sonic	ML	Sandy SILT:
51.75-52.5	8" Sonic	SP	SAND:
52.5-53.25	8" Sonic	SC	Clayey SAND:
53.25-55	8" Sonic		Clayey SAND:
55-56.5	8" Sonic		Clayey SAND:
56.5-57.5	8" Sonic		Clayey SAND:
57.5-60	8" Sonic		Clayey SAND:
60-61	8" Sonic	ML	Clayey SILT with sand:
61-62.5	8" Sonic	SM	Silty SAND:
62.5-63.75	8" Sonic	CL	Sandy CLAY:
63.75-64.75	8" Sonic	SM	Silty SAND:
64.75-65.5	8" Sonic	SP	SAND:
65.5-66.5	8" Sonic	ML	Clayey SILT with sand:
66.5-67.5	8" Sonic	SC	Clayey SAND:
67.5-70	8" Sonic	SM	Silty SAND with clay:

TD = 70'; PVC 4-inch screen from 60 to 70; PVC 4-inch riser from -2.5 to 60

Drilling Method: Prosonic T600, 8" Rotasonic

Drilling Company - Cascade Drilling

Driller - Rick Mallett

Geologist - Michael Sauerwein

Above-grade, 5-foot long, 6-inch diameter, steel
Wellhead Protective Monument set in Concrete
~ 2.5-foot. stick-up

Ground Surface

8-inch diameter,
from 0 to 70-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 60 feet below ground surface (bgs)

Portland Cement-Bentonite gel (~ 10:1)
Grout, Tremie-Pipe Slurry,
from 0 to 53-feet bgs

Bentonite medium chips,
from 53 to 58 feet bgs

At Time of Drilling,
Depth to Uppermost Ground
Water ~ 61-feet bgs

Centralizers - placed at the bottom
and the top of the well screen.

Sand Filter Pack
16/30 washed silica sand,
2-feet above screen
from 58 to 70 feet bgs

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 60 to 70 feet bgs

Total Depth (TD) = 70 feet bgs



IPSC – WASTEWATER HOLDING BASIN AREA
DELTA, UTAH

Well WW-U-1 Schematic

Date Drawn
8/11/15

Design by

Drawn by

MS

Scale

Last Revision
Date

WWU-2

Interval (feet)	Drilling Method	USCS	Sample Description
8/11/2015			
0-0.5	8" Sonic	TOPSOIL	Surface - Sand and Gravel.
0.5-2.5	8" Sonic	ML	Gravelly SILT with sand:
2.5-4	8" Sonic	SP	SAND:
4-5	8" Sonic		SAND:
5-5.5	8" Sonic		SAND:
5.5-7.5	8" Sonic		SAND:
7.5-9.5	8" Sonic	SP/SW	SAND:
9.5-10	8" Sonic	SP	SAND:
10-11	8" Sonic	SW	SAND:
11-12.5	8" Sonic	SP/SM	SAND with silt:
12.5-13	8" Sonic	SM	Silty SAND:
13-15	8" Sonic	ML	Sandy SILT:
15-15.5	8" Sonic	SP	SAND:
15.5-17	8" Sonic	SC	Clayey SAND with gravel:
17-17.5	8" Sonic	SW	Gravelly SAND with sand:
17.5-19	8" Sonic		SAND:
19-20	8" Sonic		SAND:
20-22.5	8" Sonic	GW	Sandy GRAVEL:
22.5-23.5	8" Sonic	SW	SAND:
23.5-25	8" Sonic	SP/SM	SAND with silt:
25-32.5	8" Sonic		SAND with silt:
32.5-33.5	8" Sonic	SW/SC	Gravelly SAND with clay:
33.5-35	8" Sonic	SP/SM	SAND with silt:
35-37.5	8" Sonic		SAND with silt:
37.5-39	8" Sonic	SC/CL	Clayey SAND/Sandy CLAY:
39-40	8" Sonic	SC	Clayey SAND:
40-45	8" Sonic	SC/CL	Clayey SAND/Sandy CLAY:
45-45.5	8" Sonic	SM	Silty SAND with clay:
45.5-47.5	8" Sonic	SC/CL	Clayey SAND/Sandy CLAY:
47.5-49.5	8" Sonic	CH/SC	Sandy CLAY/Clayey SAND:
49.5-50	8" Sonic	SP/SM	SAND with silt:
50-51.5	8" Sonic	SC	Clayey SAND:
51.5-52.5	8" Sonic	SP/SC	SAND with clay:
52.5-55	8" Sonic	SP	SAND:
55-56.5	8" Sonic	CH	Sandy CLAY:
56.5-57.5	8" Sonic	SC	Clayey SAND:
57.5-59	8" Sonic	ML	Clayey SILT with sand:
59-60	8" Sonic	CH	Sandy CLAY:
60-62.5	8" Sonic	SC	Clayey SAND:
62.5-64	8" Sonic	CH	Sandy CLAY:
64-65	8" Sonic	SM	Silty SAND:
65-66.5	8" Sonic	SP	SAND:
66.5-67.5	8" Sonic	SM	Silty SAND:
67.5-75	8" Sonic	SW	SAND:

TD = 75'; PVC 4-inch screen from 65 to 75; PVC 4-inch riser from -2.5 to 65

Drilling Method: Prosonic T600, 8" Rotosonic

Drilling Company - Cascade Drilling

Driller - Rick Mallett

Geologist - Michael Sauerwein

Above-grade, 5-feet. long, 8-in. dia., steel
Wellhead Protective Monument set in a 2X2
Concrete Pad ~ 2.5-feet. stick-up

Ground Surface

8-inch diameter,
from 0 to 75-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 65 feet below ground surface (bgs)

Cement-Bentonite gel (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 58-feet bgs

At Time of Drilling,
Depth to Uppermost
Ground Water ~ 61-feet bgs

Bentonite medium chips,
from 58 to 63 feet bgs

Sand Filter Pack:
16/30 washed silica sand,
2-feet above screen
from 63 to 75 feet bgs

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 65 to 75 feet bgs

Centralizers - placed at the bottom
and the top of the well screen.

Total Depth (TD) = 75 feet bgs



IPSC – WASTEWATER HOLDING BASIN AREA
DELTA, UTAH

Well WW-U-2 Schematic

Date Drawn
8/11/15

Design by

Drawn by

MS

Scale

Last Revision
Date

SI-U-1

Interval (feet)	USCS	Sample Description
8/12/2015		
0-0.5	TOPSOIL	Surface - Sand and Gravel, roots and grass.
0.5-2.5	SP/SM	SAND with silt:
2.5-5	SP	SAND:
5-6.5	SP/SM	SAND with silt:
6.5-7.5	SW/SM	SAND with silt:
7.5-8	SW	SAND:
8-12.5	SP	SAND:
12.5-17.5		SAND:
17.5-18	SP/SM	SAND with silt:
18-19	SM	Silty SAND:
19-20	CL	CLAY:
20-21.5	SP	SAND:
21.5-22.5	SP/SM	Gravelly SAND with silt:
22.5-26.5	SW	SAND:
26.5-27.5	SW/SC	SAND with clay:
27.5-29.5	ML	Sandy SILT with clay:
29.5-30	SP	SAND:
30-32	ML	Sandy SILT with clay:
32-32.5	SW	SAND with gravel:
32.5-38	SC	Clayey SAND:
38-40	SM	Silty SAND:
40-42.5	SP/SM	SAND with silt:
42.5-44.25	GW	Sandy GRAVEL with clay:
44.25-45	SM	Silty SAND:
45-46.5	SC	Clayey SAND:
46.5-47.75	SP/SC	SAND with clay:
47.75-52.5	SP	SAND:
52.5-54	CH	CLAY:
54-55	SC/CH	Clayey SAND/Sandy CLAY:
55-60	CH	CLAY:
60-62.5		CLAY:
62.5-66		CLAY:
66-70	SC	Clayey SAND:
70-70.75	ML	Clayey SILT with sand:
70.75-71.5	CH	CLAY:
71.5-72.5	SP/SC	SAND with clay:
72.5-75	SP/SM	SAND with silt:
75-75.75	SM	Silty SAND:
75.75-77	SC	Clayey SAND:
77-80	SP/SM	SAND with silt:

TD = 80'; PVC 4-inch screen from 69 to 79; PVC 4-inch riser from -2.5 to 69
Drilling Method: Prosonic T600, 8" Rotasonic

Drilling Company - Cascade Drilling
Driller - Rick Mallett
Geologist - Michael Sauerwein

Above-grade, 5-foot long, 6-inch diameter, steel
Wellhead Protective Monument set in Concrete

~ 2.5-foot. stick-up

Ground Surface

8-inch diameter,
from 0 to 80-feet bgs

4-inch diameter, Sch. 40 PVC,
from ~ 2.0 feet above ground surface (ags)
to 69 feet below ground surface (bgs)

Cement-Bentonite gel (~ 10:1) Grout,
Tremie-Pipe Slurry,
from 0 to 62-feet bgs

Bentonite medium chips,
from 62 to 67 feet bgs

At Time of Drilling,
Depth to Uppermost
Groundwater ~ 67-feet bgs

Centralizers - placed at the bottom
and the top of the well screen.

#16/30 washed silica sand,
2-feet above screen
from 67 to 80 feet bgs

10-foot length; 4-inch diameter
Sch. 40 PVC, 0.020"-slotted,
from 69 to 79 feet bgs

Total Depth (TD) = 80 feet bgs



IPSC – COAL STORAGE AND UNLOADING AREA
DELTA, UTAH

Well SHU-1 Schematic

Date Drawn
8/12/15

Design by

Drawn by

MS

Scale

Last Revision
Date



DRILLING LOG

PROJECT NAME: Intermountain Power Plant
BORING/MONITORING WELL: WR-101 / RW-2
DRILLING FIRM: Boart Longyear
BORING METHOD: Sonic
BORING DIAMETER: 10.0-inch

PROJECT No.: 07.00408.01
COMPLETION DATE: 12/11/2007
DRILLER: Robert
LOGGED BY: Thomas Hedrick
DEPTH TO WATER (at drilling): ~ 40 ft.
DEPTH TO WATER (static > 24-hrs.): 36.09 ft.

WR-101 / RW-2

Interval (feet)	Drilling Method	Sample Description
0 - 9	SDM	Light Brown fine grained SAND with clay matrix
9 - 17	SDM	Light Brown clayey SILT
17 - 20	SDM	Light Brown silty CLAY
20 - 25	SDM	Brown medium grained SAND with pebbles, Dry and loose
25 - 28	SDM	Light Brown silty CLAY, very tight, MOIST
28 - 38	SDM	Light Brown CLAY, Moist
38 - 42	SDM	Brown fine grained SAND, Moist
42 - 50	SDM	Brownish/Red CLAY, Dry
50 - 56	SDM	Brown medium grained SAND with clay matrix, very moist/saturated
56 - 58	SDM	Brown silty CLAY, moist
60 - 66	SDM	Brown medium grained SAND, Saturated
		Total Depth = 66 feet BGS, Screened from 66 – 46', Sand 40-66', Bentonite 36-40', Grout 0-36'

Well Completion Materials and Depth Intervals (ft.)

Surface Completion: Stick-up

Casing, solid: 6 inch diameter sch. 80 PVC casing, 0-7 ft.

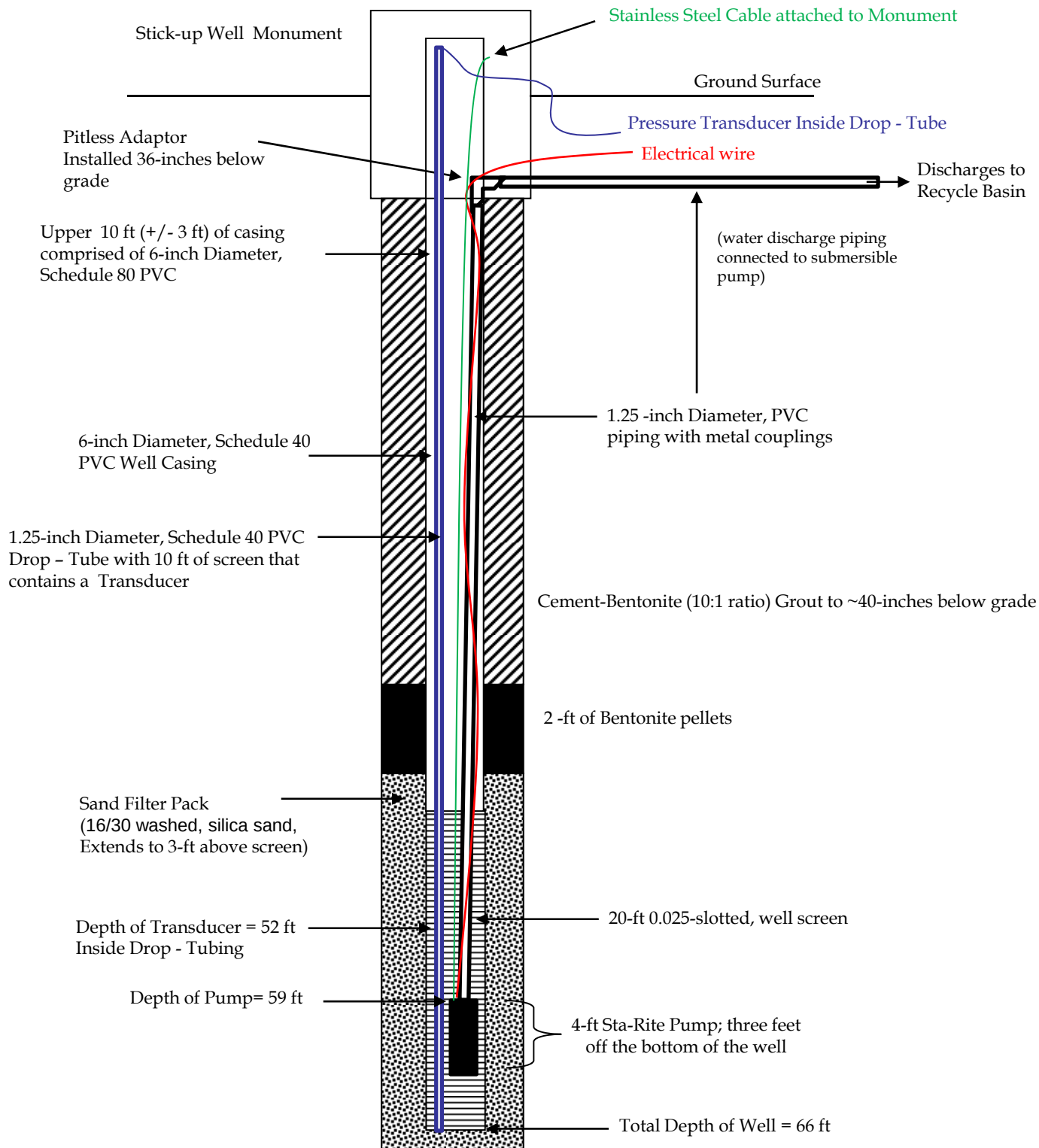
Casing, solid: 6 inch diameter sch. 40 PVC casing, 7 -46 ft.

Screen: 6 inch diameter sch. 40 PVC well screen 0.025-slotted, 46-66 ft.

Sand Pack: 16/30 washed, silica sand, 40-66 ft.

Bentonite Seal: "Pure Gold" Bentonite Pellets, 36-40 ft.

Cement-Bentonite (10:1 ratio) Grout: 0-36 ft.



INTERMOUNTAIN POWER PLANT
850 WEST BRUSH WELLMAN ROAD – DELTA, MILLARD COUNTY, UTAH

Ground Water Recovery Well WR-101 Schematic

Design by

Drawn by

Scale

Date Drawn

Last Revision Date



DRILLING LOG

PROJECT NAME: Intermountain Power Plant
BORING/MONITORING WELL: WR-102

PROJECT No.: 08.00463.01
COMPLETION DATE: 3/30/2009

DRILLING FIRM: Boart Longyear
BORING METHOD: Sonic Drilling Method
BORING DIAMETER: 10.0-inch

DRILLER: Chato
LOGGED BY: Thomas Hedrick
DEPTH TO WATER (at drilling): ~ 40 ft.
DEPTH TO WATER (static > 24-hrs.): ~ 27 ft.

WR-102

Interval (feet)	Drilling Method	Sample Description
0 - 11	SDM	Light Brown fine grained SAND with pebbles present from 3 - 7 feet, Dry
11 - 16	SDM	Light Brown fine grained SAND with interbeds of brown CLAY, Dry
16 - 35	SDM	Light Gray CLAY, moist at ~ 35 feet,
35 - 37	SDM	Light Gray Clay with a fine to medium grained sandy matrix, very moist
37 - 48	SDM	Brown fine to medium grained SAND, saturated
48 - 50	SDM	Brown CLAY, dry
50 - 53	SDM	Brown to Black medium grained SAND, saturated
53 - 57	SDM	Brown CLAY with two fine grained sand layer present
		Total Depth = 57 feet BGS, Screened from 37 – 57', Sand 34-57', Bentonite 31-34, Grout 0-31'

Well Completion Materials and Depth Intervals (ft.)

Surface Completion: Stick-up

Casing, solid: 6 inch diameter sch. 80 PVC casing, 0-9 ft.

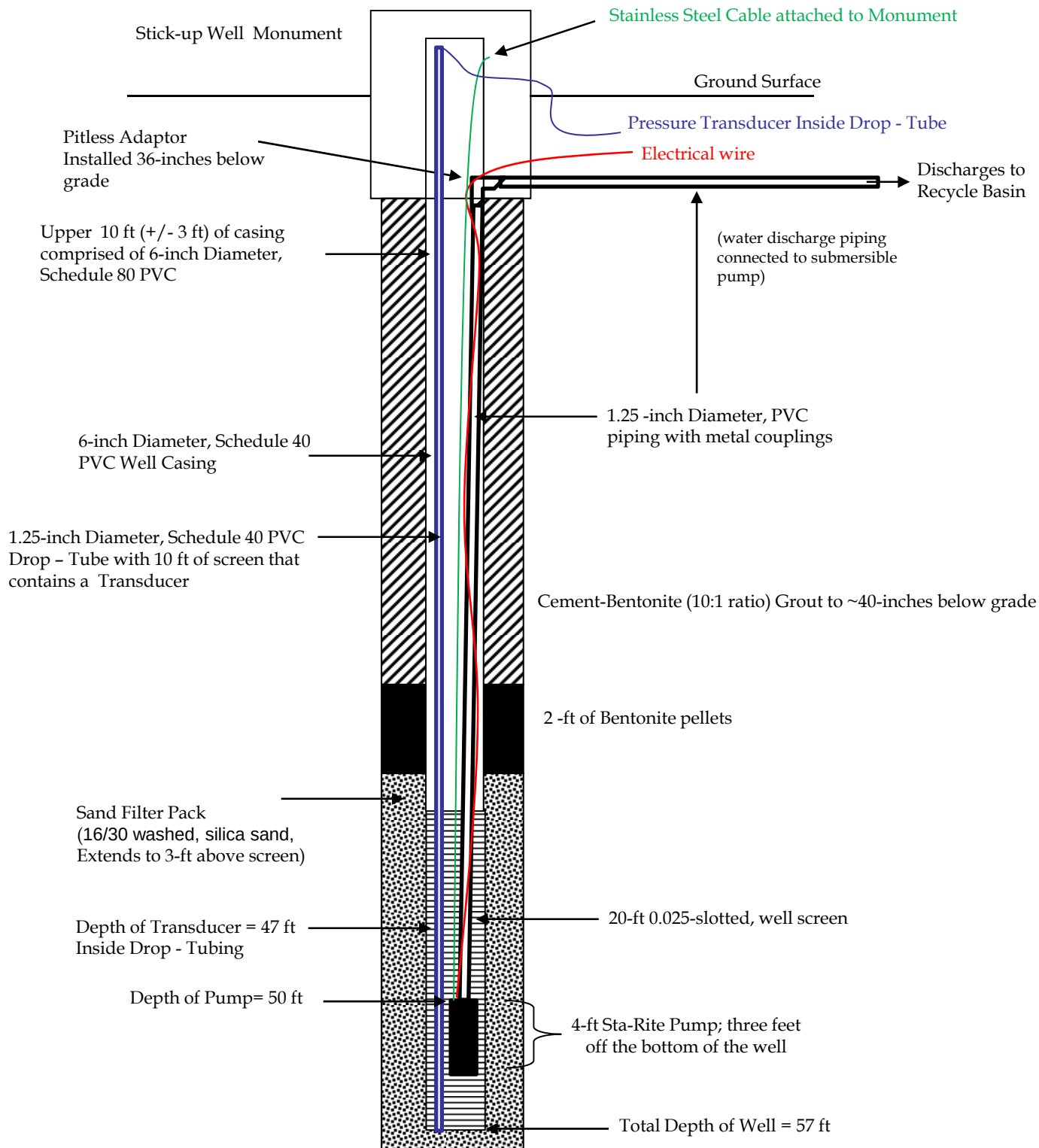
Casing, solid: 6 inch diameter sch. 40 PVC casing, 9 -37 ft.

Screen: 6 inch diameter sch. 40 PVC well screen 0.025-slotted, 37-57 ft.

Sand Pack: 16/30 washed, silica sand, 34-57 ft.

Bentonite Seal: "Pure Gold" Bentonite Pellets, 31-34 ft.

Cement-Bentonite (10:1 ratio) Grout: 0-31 ft.



INTERMOUNTAIN POWER PLANT
850 WEST BRUSH WELLMAN ROAD – DELTA, MILLARD COUNTY, UTAH

Ground Water Recovery Well WR-102 Schematic

Design by

Drawn by

Scale

Date Drawn

Last Revision
Date



DRILLING LOG

PROJECT NAME: Intermountain Power
Plant BORING/MONITORING WELL: WR-103

PROJECT No.: 08.00463.01
COMPLETION DATE: 3/31/2009

DRILLING FIRM: Boart Longyear
BORING METHOD: Sonic
BORING DIAMETER: 10.0-inch

DRILLER: Chato
LOGGED BY: Thomas Hedrick
DEPTH TO WATER (at drilling): ~ 40 ft.
DEPTH TO WATER (static > 24-hrs.): ~ 30 ft.

WR-103

Interval (feet)	Drilling Method	Sample Description
0 - 3	SDM	Brown to Light brown fine grained SAND to silt, Dry
3 - 15	SDM	Light brown fine to medium grained SAND, pebbles present from 3 - 5 feet, Dry
15 - 17	SDM	Light brown fine to medium grained SAND, with interbeds of light brown CLAY with a sandy matrix, Dry
17 - 24	SDM	Light brown CLAY, Dry
24 - 37	SDM	Reddish Gray CLAY, Dry
37 - 45	SDM	Brown to Black medium fine to medium grained SAND, very moist
45 - 47	SDM	Brown fine grained SAND with a CLAY matrix, very moist
47 - 52	SDM	Brown Fine to medium grained SAND, saturated
52 - 55	SDM	Red CLAY, dry
		Total Depth = 55 feet BGS, Screened from 35 – 55', Sand 32-55', Bentonite 29-32, Grout 0-29'

Well Completion Materials and Depth Intervals (ft.)

Surface Completion: Stick-up

Casing, solid: 6 inch diameter sch. 80 PVC casing, 0-6.5 ft.

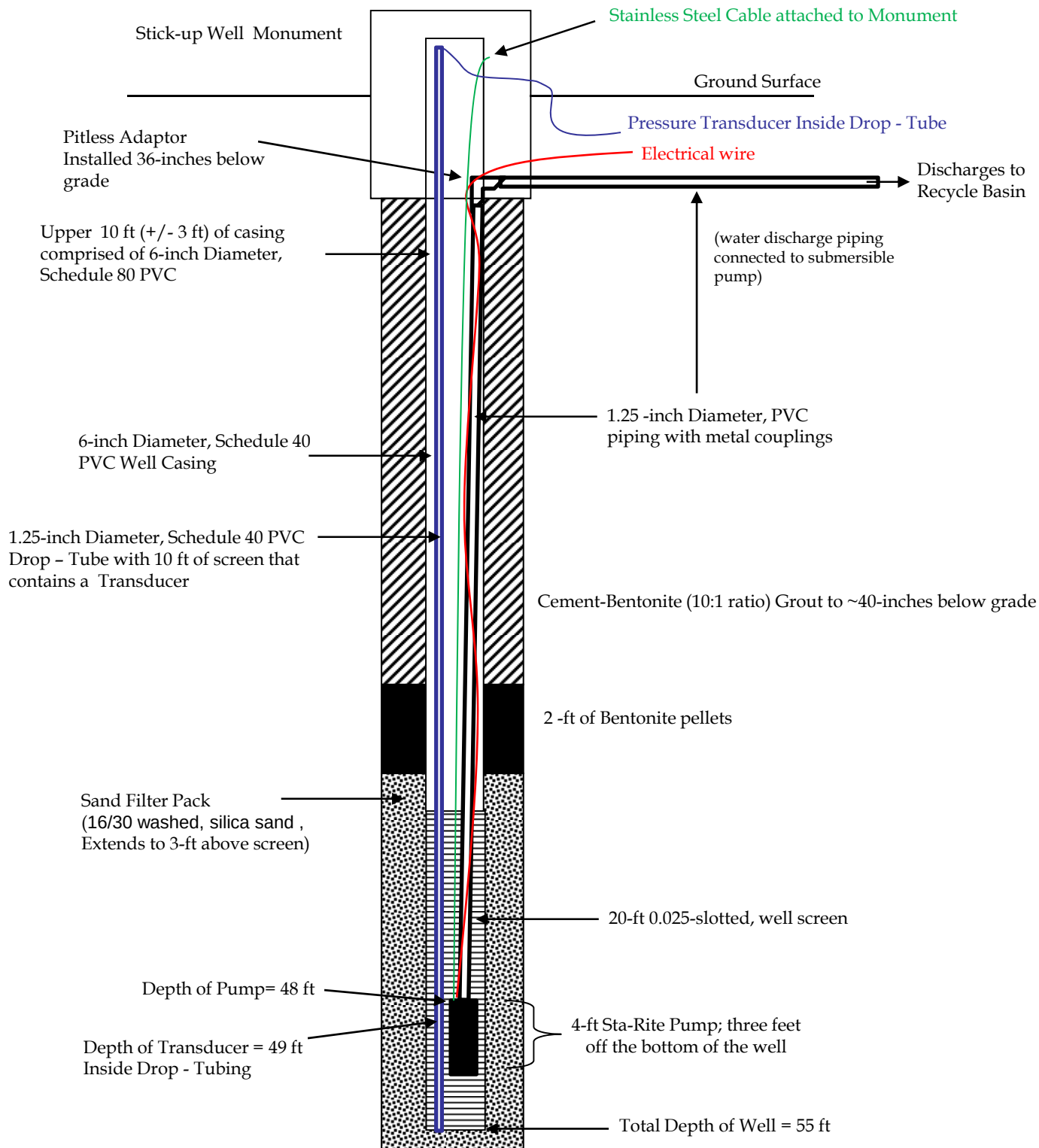
Casing, solid: 6 inch diameter sch. 40 PVC casing, 6.5 -35 ft.

Screen: 6 inch diameter sch. 40 PVC well screen 0.025-slotted, 35-55 ft.

Sand Pack: 16/30 washed, silica sand, 32-55 ft.

Bentonite Seal: "Pure Gold" Bentonite Pellets, 29-32 ft.

Cement-Bentonite (10:1 ratio) Grout: 0-29 ft.



INTERMOUNTAIN POWER PLANT
850 WEST BRUSH WELLMAN ROAD – DELTA, MILLARD COUNTY, UTAH

Ground Water Recovery Well WR-103 Schematic

Design by

Drawn by

Scale

Date Drawn

Last Revision Date

MONITORING WELL ID: **EP-11**

CLIENT: Intermountain Power Service Corporation

PROJECT: Monitoring Well Installation

SITE LOCATION: Property Fence



DRILLING CONTRACTOR: Cascade Drilling

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: Pro Sonic 600 Track

SAMPLING METHOD: 4-inch sonic core barrel 0-77 ft bgs

COORDINATE SYSTEM:

EASTING:

NORTHING:

ELEVATION:

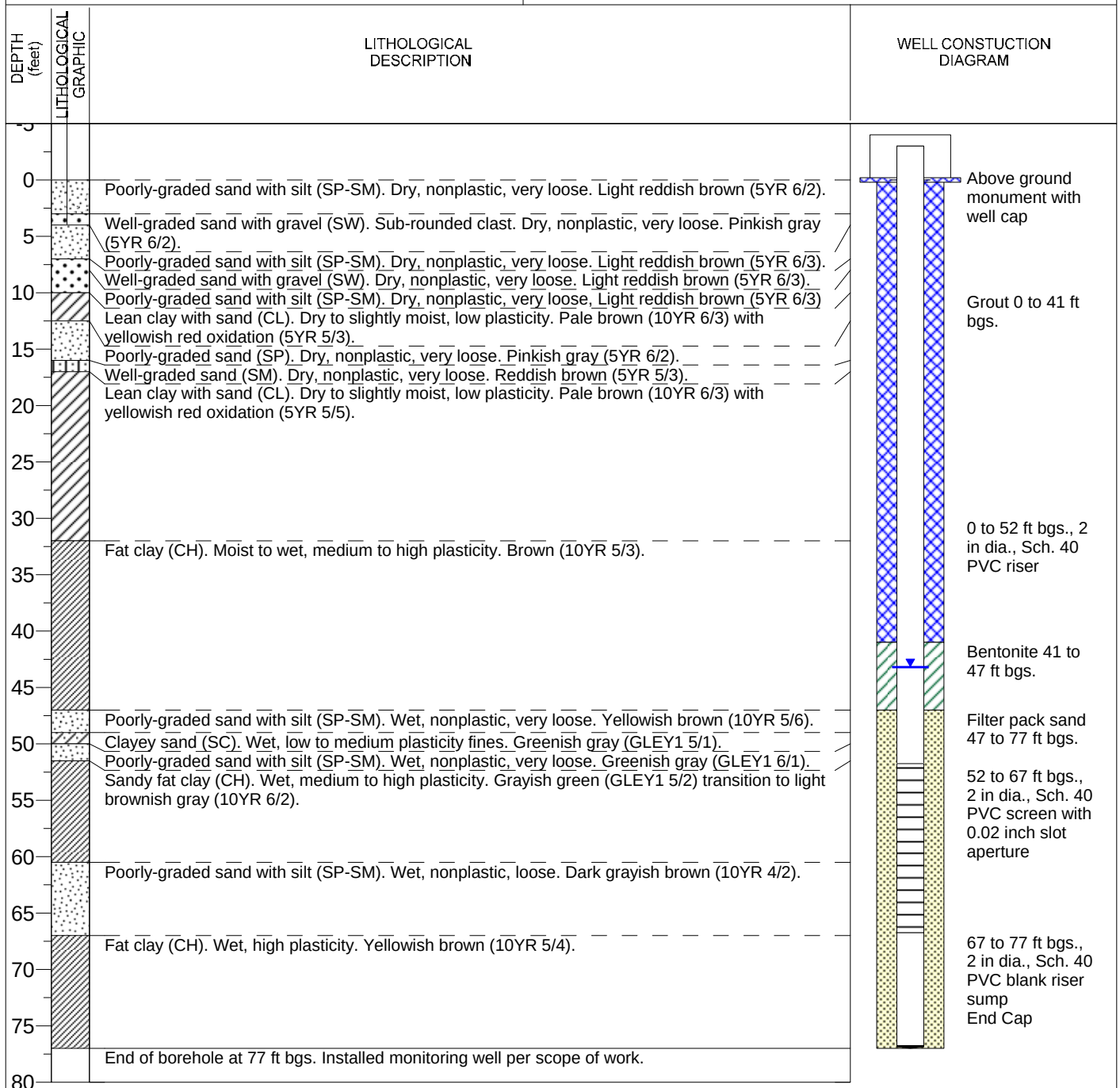
BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 77

GROUNDWATER LEVEL (ft. btoc.): 43.2

DATE STARTED: 10/14/2021 DATE FINISHED: 10/14/2021

LOGGED BY: Joel Pierson



Notes: bgs. = below ground surface Sch. = Schedule
 dia. = diameter YR = Yellow-Red
 ft = feet

MONITORING WELL ID: **EP-16**

CLIENT: Intermountain Power Service Corporation

PROJECT: 203709098

SITE LOCATION:



DRILLING CONTRACTOR: Cascade

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: TSi 150C

SAMPLING METHOD:

COORDINATE SYSTEM:

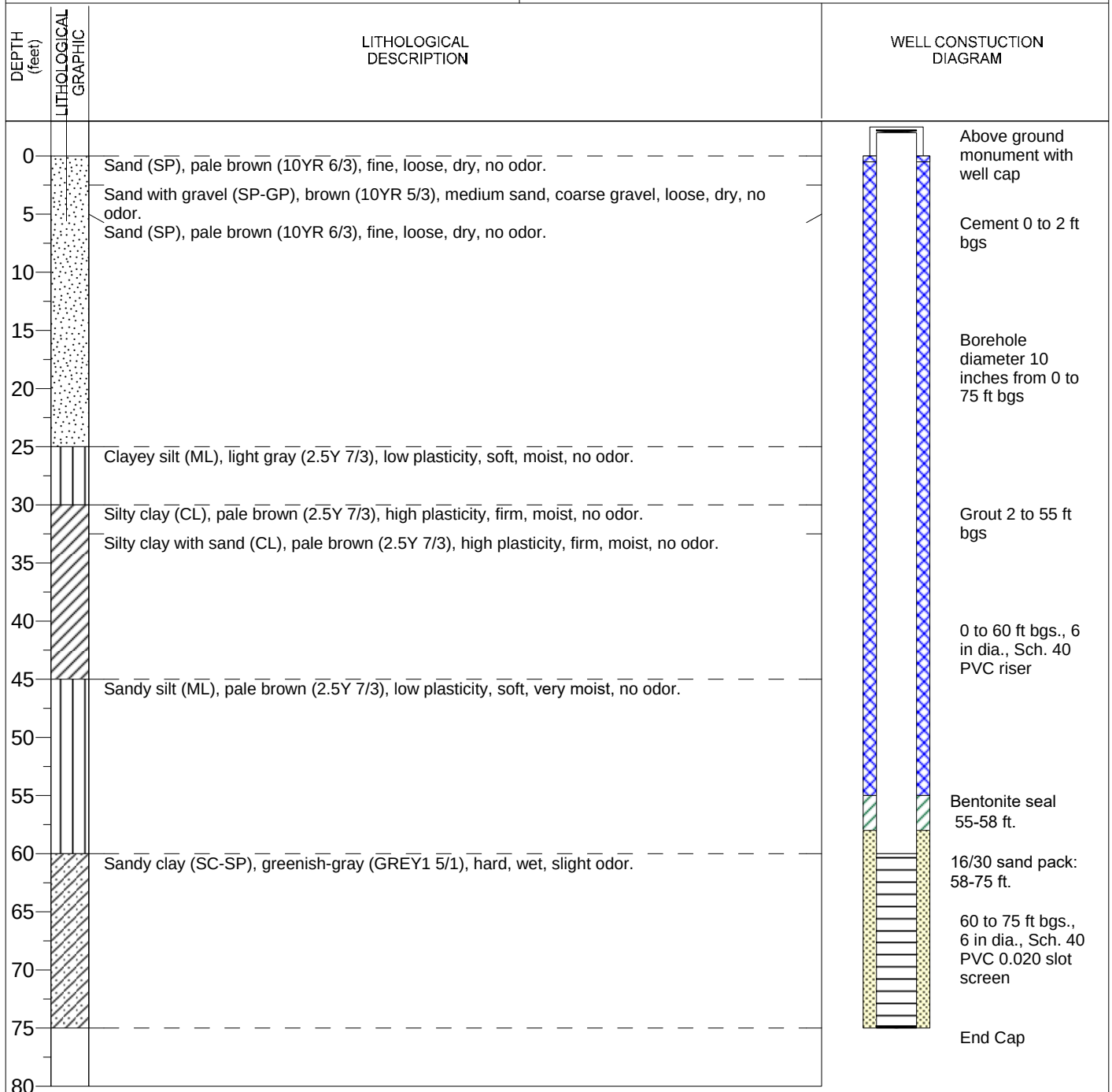
EASTING: 1681323.96 NORTHING: 436702.69

ELEVATION: 4617.32 BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 75 GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 9/20/2023 DATE FINISHED: 9/21/2023

LOGGED BY: Cody Fauth



Notes: bgs. = below ground surface Sch. = Schedule
dia. = diameter YR = Yellow-Red
ft = feet

MONITORING WELL ID: **EP-17**

CLIENT: Intermountain Power Service Corporation

PROJECT: 203709098

SITE LOCATION:



DRILLING CONTRACTOR: Cascade

DRILLING METHOD: Sonic

DRILLING EQUIPMENT: TSi 150C

SAMPLING METHOD:

COORDINATE SYSTEM:

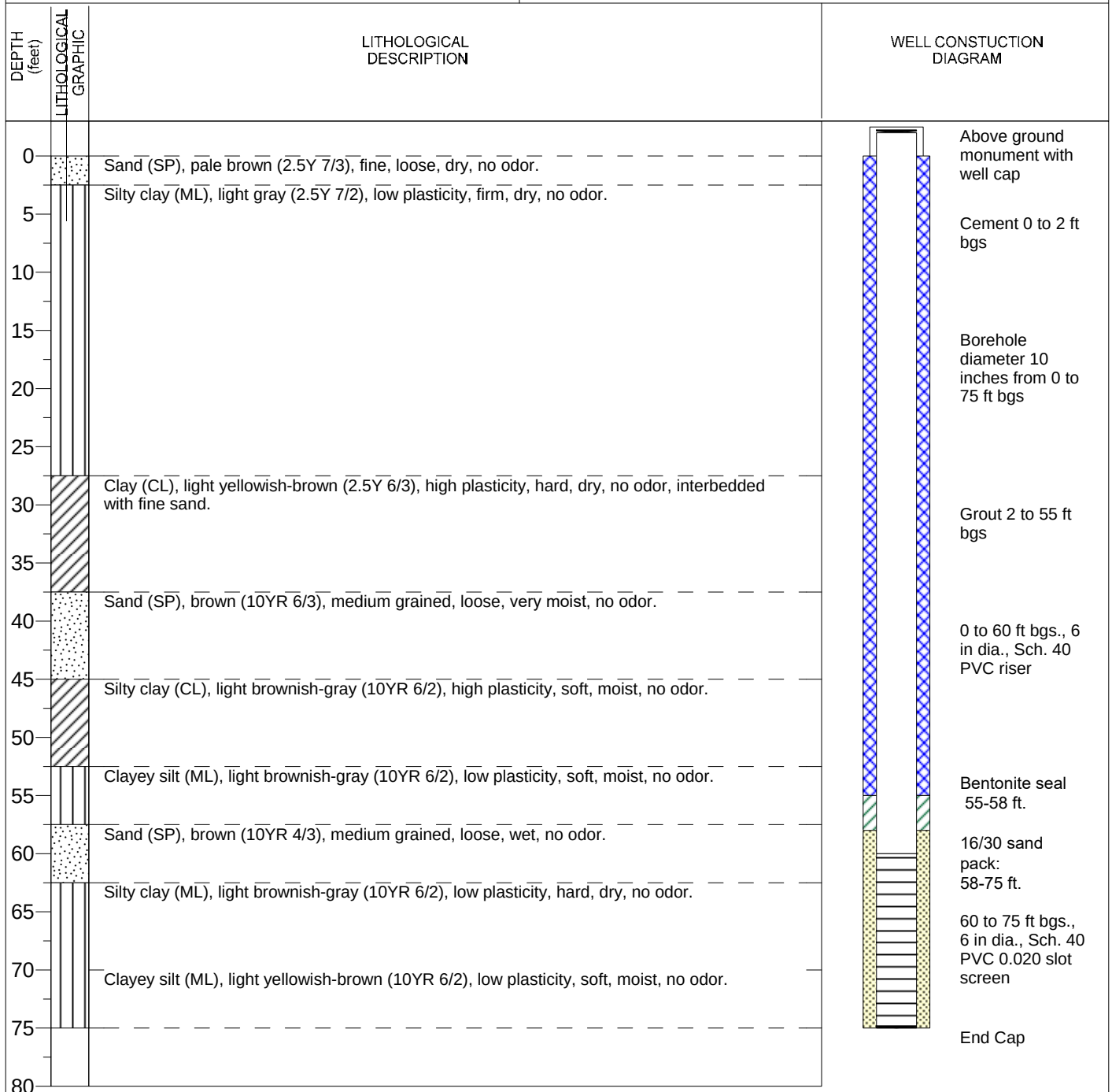
EASTING: 1681475.31 NORTHING: 426953.65

ELEVATION: 4610.97 BOREHOLE ANGLE: 90 degrees

TOTAL DEPTH (ft.): 75 GROUNDWATER LEVEL (ft. btoc.):

DATE STARTED: 9/21/2023 DATE FINISHED: 9/22/2023

LOGGED BY: Cody Fauth



Notes: bgs. = below ground surface Sch. = Schedule
 dia. = diameter YR = Yellow-Red
 ft = feet

EMW-3

WELL CONSTRUCTION SUMMARY

SITE TYPE

SITE ID

WELL

 PROJECT IPP-1113

 PERSONNEL E. KIRSCH A. KUSCH

LOCATION OR COORDS

ELEVATION: GROUND LEVEL

TOP OF CASING

DRILLING SUMMARY

 TOTAL DEPTH 141.5' TD

 BOREHOLE DIAMETER 4 7/8"

 DRILLER R. Kostriko

 RIG FAIRING 1500

 BIT(S) TRI-CON

 DRILLING FLUID BENTONITE

 SURFACE CASING Installed 10/23/82

WELL DESIGN

 BASIS: GEOLOGIC LOG
GEOPHYSICAL LOG

CASING STRING (S): C = CASING S = SCREEN

+3.5 - 6.29	C ₁₂	75.36 - 85.23	C ₅
6.29 - 10.15	C ₁₂	85.23 - 95.10	C ₄
10.15 - 26.02	C ₁₁	95.10 - 104.96	C ₃
26.02 - 35.89	C ₁₀	104.96 - 114.83	C ₂
35.89 - 45.75	C ₉	114.83 - 124.72	C ₁
45.75 - 55.62	C ₃	124.72 - 134.60	S ₁
55.62 - 65.49	C ₇	134.60 - 135.0	PLUG
65.49 - 75.36	C ₆	-	-

CASING C ₁ 9.89'	C ₅ 9.87'	C ₉ 9.86'
C ₂ 9.87'	C ₆ 9.87'	C ₁₀ 9.87'
C ₃ 9.86'	C ₇ 9.87'	C ₁₁ 9.87'
C ₄ 9.87'	C ₈ 9.87'	C ₁₂ 9.86'

 SCREEN S₁ 9.88' + 0.4' PLUG C₁₂ 9.87'

 S₂

 S₃

 S₄

 FILTER MATERIAL 8-12 COLORADO
SILICA SAND (2 1/2 100 lb. bags)

 CEMENT UTAH PORTLAND Type II
15 sacks in 140 gal. H₂O

 OTHER 1- 5 gal. bucket bentonite
per 100'

CONSTRUCTION TIME LOG

TASK

START

FINISH

DRILLING:

DATE

TIME

DATE

TIME

0' - 35'

9-27-82

1350

9-27-82

1430

35' - 111.5'

9-28-82

0850

9-28-82

1530

111.5' - 141.5'

9-29-82

0910

9-29-82

1040

 GEOPHYSICAL
LOGGING:

 SCREEN
PLACEMENT:

10-13-82

1130

10-13-82

1150

CEMENTING:

10-13-82

1250

10-13-82

1340

DEVELOPMENT:

10-22-82

1805

10-22-82

1845

OTHER:

SAND

10-13-82

1150

10-13-82

1215

BENTONITE

10-13-82

1230

10-13-82

1230

WELL DEVELOPMENT

Water mostly clear; trace of very fine sand
T = 140°C, eC = 4200 μmhos/cm @ 25°C
Depth to water: 31.7 Feet.

COMMENTS

TOP OF SAND AT 115 Fc.
TOP OF BENTONITE SEAL AT 107 Fc.
GROUT TO SURFACE.

+3.5'

 GROUND
SURFACE

GROUT

107'

BENTONITE

115'

SAND

124.72

135'

CAVE IN

141.5' TD

FIELD LOG OF BORING

SITE TYPE SITE ID

BORE N 2
S 3

SHEET 1 OF 8

PROJECT NAME AND LOCATION IPP-HWG Study				PROJECT NUMBER 82-523-05				ELEVATION AND DATUM							
DRILLING COMPANY Pitcher Drilling				DRILLER R. Kostento				DATE AND TIME STARTED 9/27/82- 1351				DATE AND TIME COMPLETED 9-29-82/1040			
DRILLING EQUIPMENT: METHOD Mud Rotary - Failing 1500				COMPLETION DEPTH 141.5 Feet				TOTAL NO. OF SAMPLES 29							
SIZE AND TYPE OF BIT 4 7/8" tricone				NO. OF SAMPLES 3		BULK 3		SS 4		DRIVE 20		PITCHER 2			
DRILLING FLUID Bentonite				WATER LEVEL FIRST				AFTER _____ HOURS							
SAMPLER HAMMER TYPE JARS				DRIVING WT. 360 lbs. DROP 24 inches				HYDROGEOLOGIST/DATE K. Knirsch/A. Russell				CHECKED BY/DATE			

DEPTH-Feet	SAMPLES				DESCRIPTION	USCS SYMBOL	ESTIMATED PERCENT OF			MOISTURE	CONSISTENCY	COLOR	COMMENTS
	TYPE AND NUMBER	INTERVAL	RECOVERY	BLOW COUNT			GR	SA	FI				
1	sample				SANDY SILT; very pale brown, sand is fine to very fine; slight plasticity, no HCl rxn.	ML	0	20	80	M	St.	104R 7/4	sample moist due to heavy rainfall
2	2.0												
3	GRAB				SAND; very pale brown fine sand, no HCl rxn, interbedded sand and silt.	SP	0	90	10	D	L	104R 7/4	Driller adds 2 gallons H ₂ O
4	3.5												Drillers drive casing to 7 feet
5	GRAB				GRAVELLY SAND; gravel up to 1/2"; very pale brown, gtl. subang. to subrounded; slight	SP	10	80	10	D	L	104R 7/4	
6	5.0				7. HCl rxn.								
7	D-1				7 SANDY GRAVEL; pale brown, gtl. up to 1"; subang. to subrounded; slight HCl rxn.	GO	70	20	10	D	L	104R 7/4	
8	6.5												
9													
10	10.0												Drillers stop for day-lightning storm
11	D-2				9 SAND; pale brown, fine to very fine grained, slight	SM	0	90	10	D	MD	104R 7/4	Start drilling, 0850, 9/28/82
12	11.5				11 HCl rxn.								
13													
14													
15													



OG 82-523-05

SITE ID

N

5

SHEET 2 OF 8

PROJECT NO. IPP-HWG 82-523-05

[illegible]



The Earth Technology Corporation

FIELD LOG OF BORING

SITE TYPE SITE ID

BORE N 3
S 3

SHEET 3 OF 8

PROJECT NO. IAP - HWG 82-523-05

DEPTH-Feet	SAMPLES				DESCRIPTION	USCS SYMBOL	ESTIMATED PERCENT OF			MOISTURE	CONSISTENCY	COLOR	COMMENTS
	TYPE AND NUMBER	INTERVAL	RECOVERY	BLOW COUNT			GR	SA	FI				
35	PB-1	13" / 20"		200 lb. / 200	SANDY SILT, light brownish grey, sand is very fine, no plasticity, slight HCl rxn.	ML	0	20	80	SM	F	104 ⁴ / ₁₂	Pitcher sample taken - 35' - 36' 1"
40	D-7	40 / 41.5		4 / 6	CLAY; light brownish grey, slightly plastic, strong HCl rxn.	CL	0	0	100	SM	St	254 ⁴ / ₁₂	Major color change in clay
45	D-8	45 / 46.5		3 / 4	CLAY, light brownish grey, plastic, strong HCl rxn	CL	0	0	100	SM	St	254 ⁴ / ₁₂	
50	D-9	50 / 51.5		20 / 24	CLAY, light olive brown, plastic, iron staining, strong HCl rxn.	CL	0	0	100	SM	V.S.	254 ⁴ / ₁₂	
51					CLAYEY SAND, greyish brown, 20% clay, 80% coarse - medium - fine sand (mostly medium) no plasticity, moderate HCl rxn., interbedded clay and sand	SM	0	80	20	W	D	104 ⁴ / ₁₂	Sand at 51.60 ft.



The Earth Technology Corporation

FIELD LOG OF BORING

SITE TYPE

SITE ID

BORE

N

3

S

SHEET 4 OF 8

PROJECT NO. 1PP HWG 82-523-05

DEPTH-Feet	SAMPLES				DESCRIPTION	USCS SYMBOL	ESTIMATED PERCENT OF			MOISTURE	CONSISTENCY	COLOR	COMMENTS
	TYPE AND NUMBER	INTERVAL	RECOVERY	BLOW COUNT			PERCENT OF						
							GR	SA	FI				
53	PB-2				clay, medium brown, plastic, slight HCL, 100% fine	CH	0	0	100	SM	VS	10YR 5/2	
60	D-10		12 1/4 30	11 16 28	clay, pale brown, plastic, strong HCL, 100% fines	CH	0	0	100	SM	VS	10YR 8/3	
63	D-11			5 6 7	clay, grey, plastic, slight HCL, 100% fines	CH	0	0	100	M	F	10YR 5/1	"Blue" clay clay change ↓
70	D-12			7 7 15	Silty clay w/ slight plasticity, dark grey, HCL	CL	0	0	100	M	ST	10YR 4/1	



FIELD LOG OF BORING

SITE TYPE	SITE ID
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N

2

SHEET 5 OF 8

PROJECT NO. PPHW6 82-523-05

DEPTH-Feet	SAMPLES			DESCRIPTION	USCS SYMBOL	ESTIMATED PERCENT OF			MOISTURE	CONSISTENCY	COLOR	COMMENTS		
	TYPE AND NUMBER	INTERVAL	RECOVERY			BLOW COUNT	PERCENT OF							
							GR	SA					FI	
7.9	D-13			7	Sandy silt, greyish brown	SM	0	15	85	M	VS	12 1/2		
8				14										slight HCL, 0 plasticity
				45										
8.0	D-14			11	Sandy silt, brown, 60% fines, 40% very fine sand	SM	0	60	40	M	D	12 1/2		
1				24										HCL
				38										
8.5	D-15			27	Silt, sand, greyish-brown	SM	0	70	30	M	VD	12 1/2		
8				26										slight HCL, 70% very fine
				23										sand, 30% fines
9.0	D-16			15	Clay, brown, 100% fines	CH	0	0	100	SM	VS	10 1/2		
1				25										HCL, 1/2 plastic
				27										



FIELD LOG OF BORING
No 82-523-05

SITE ID

N

SHEET 6 OF 8

PROJECT NO.

1 PP HW6 82-523-05

The South Technology Corporation				PROJECT NO. 1 PP HW6 82-523-05										
DEPTH-Feet	SAMPLES				DESCRIPTION	USCS SYMBOL	ESTIMATED PERCENT OF			MOISTURE	CONSISTENCY	COLOR	COMMENTS	
	TYPE AND NUMBER	INTERVAL	RECOVERY	BLOW COUNT			GR	SA	FI					
9.5	D-17			15	Clay brown, v. plastic,	CH	0	0	100	D	S	7.5% ^R	Sand in tip Sand wet, clay dry	
0				34	sl. HCl 100% fines									
0				46	Silt. sand, light yellowish brown, 12% HCl, 90% fine sand	SM	90	10	W	VD	12% ^R			
7														
8														
8														
100	D-18			11	Clay brown, plastic,	CH	0	0	100	D	VS	7.5% ^R 5/11		
1				17	strong HCl									
1				25										
2														
3														
4														
0.5	D-19			11	Clay light yellowish	CH	0	0	100	SM	ST	10% ^R 2/14		
6				21	brown, plastic, strong									
6				36	HCl									
7														
8														
8														
10	D-20			15	clay, v. plastic, pale brown	CH	0	0	100	SM	ST	10% ^R 7/13	clay for 7" SD for 5 1/2"	
1				34	HCl									
1				50										
2														
3														
4														
5														



82-523-05

BORE	N	3
	S	

SHEET 7 OF 8

PROJECT NO. IPP-HWG

DEPTH-Feet	SAMPLES				DESCRIPTION	USCS SYMBOL	ESTIMATED PERCENT OF			MOISTURE	CONSISTENCY	COLOR	COMMENTS
	TYPE AND NUMBER	INTERVAL	RECOVERY	BLW COUNT			GR	SA	FI				
0	SS-1	10" 12			CLAY (same as above)	CH	0	0	100	SM	ST	1042 7/3	8" clay on top,
0		27			SAND brown fine to very fine, slight HCl rxn.	SP	0	100	0	W	VD	1042 5/3	sand in tip (SAND at 115 2/3')
20	SS-2	10" 21			SAND, brown, fine to very fine, slight HCl rxn. (same as above)	SP	0	100	0	W	VD	1042 5/3	
25	SS-3	11" 37			SAND, brown, fine to very fine, slight HCl rxn	SP	0	100	0	W	VD	1042 5/3	
30					SAND								no sample collected, watched cuttings, drilling action

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

January 16, 2025

ATTACHMENT 2 TABULATED GROUND WATER MONITORING DATA

Round 1 Detection Monitoring - December 2-10, 2015

Landfill Wells	Results																						
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined
CL-U-1	< 0.500	68.9	418	0.813	7.82	131	1040	<0.00200	0.0378	0.126	<0.00200	<0.000500	0.00537	<0.00400	<0.00200	0.346	<0.000150	0.00459	<0.00200	<0.00200	0.52	0.5	1.02
CL-U-2	< 0.500	73.8	404	0.611	7.73	132	1020	<0.00200	0.0317	0.129	<0.00200	<0.000500	0.00613	<0.00400	<0.00200	0.325	<0.000150	0.00406	<0.00200	<0.00200	0.55	1.2	1.75
CLW-1	< 0.500	55.7	322	0.844	7.95	76.5	832	<0.00200	0.0264	0.105	<0.00200	<0.000500	0.00814	<0.00400	<0.00200	0.3	<0.000150	0.00574	<0.00200	<0.00200	0.56	1.6	2.16
CLW-2	< 0.500	53.9	432	0.695	7.75	108	976	<0.00200	0.0283	0.0957	<0.00200	<0.000500	0.00576	<0.00400	<0.00200	0.36	<0.000150	0.00472	<0.00200	<0.00200	0.51	1.1	1.61
CLW-3	< 0.500	45	367	0.948	7.86	123	928	<0.00200	0.0375	0.111	<0.00200	<0.000500	0.00346	<0.00400	<0.00200	0.337	<0.000150	0.00492	<0.00200	<0.00200	0.4	1.3	1.7
CLW-4	< 0.500	44.5	320	1.37	7.87	73.3	828	<0.00200	0.0308	0.122	<0.00200	<0.000500	0.00336	<0.00400	<0.00200	0.319	<0.000150	0.00584	<0.00200	<0.00200	0.34	1.9	2.24
CLW-5	< 0.500	38.4	345	1.51	7.81	88.3	872	<0.00200	0.0188	0.0864	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.0325	<0.000150	0.00841	<0.00200	<0.00200	0.37	1.6	1.97
CLW-6	< 0.500	33.6	325	1.38	7.71	74.5	820	<0.00200	0.0249	0.0879	<0.00200	<0.000500	0.00335	<0.00400	<0.00200	0.316	<0.000150	0.0104	<0.00200	<0.00200	0.37	0.63	1
CLW-7	< 0.500	47.3	339	0.792	7.81	66.4	812	<0.00200	0.0234	0.0593	<0.00200	<0.000500	0.00421	<0.00400	<0.00200	0.282	<0.000150	0.00331	<0.00200	<0.00200	0.14	0.52	0.66
CLW-8	< 0.500	43.6	324	0.797	7.8	70.5	772	<0.00200	0.0155	0.107	<0.00200	<0.000500	0.00463	<0.00400	<0.00200	0.285	<0.000150	0.00626	<0.00200	<0.00200	0.4	0.74	1.14

Round 1

Landfill Wells	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
CL-U-1	13.46	7.74	-42	1720	443	2.12	-
CL-U-2	14.72	6.92	-38	1750	604	2.6	-
CLW-1	14.84	7.69	-45	1490	383	2.28	0.952
CLW-2	9.95	7.86	-144	1810	99.6	1.76	1.16
CLW-3	11.24	7.95	-158	1740	128	1.9	1.11
CLW-4	14.9	7.95	-165	1540	25.1	1.67	0.98
CLW-5	15.12	7.96	-134	1620	46.4	1.6	1.04
CLW-6	15.3	8	-193	1550	30.8	0.98	0.998
CLW-7	16.38	7.54	8	1430	90.9	7.01	0.917
CLW-8	15.01	7.58	0	1530	11.3	2.09	0.976

Bottom Ash	Results																						
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined
BA-U-1	< 0.500	51.4	430	1.21	8.06	121	984	<0.00200	0.0163	0.133	<0.00200	<0.000500	0.00305	<0.00400	<0.00200	0.313	<0.000150	0.0408	<0.00200	<0.00200	0.66	0.7	1.36
BA-U-2	< 0.500	53	343	0.727	8.9	48.9	82.4	<0.00200	0.0154	0.148	<0.00200	<0.000500	0.00971	<0.00400	<0.00200	0.297	<0.000150	0.0121	<0.00200	<0.00200	0.32	2.1	2.42
BAC-1	7.49	274	3280	0.299	7.37	3060	8860	0.00237	0.0146	0.1	<0.00200	<0.000500	0.00503	0.00605	<0.00200	1.52	<0.000150	0.143	0.0204	<0.00200	0.71	1.6	2.31
BAC-2	10.7	267	2000	0.741	7.29	3620	7820	<0.00200	0.0386	0.0472	<0.00200	<0.000500	0.0116	<0.00400	<0.00200	1.38	<0.000150	0.151	0.0164	<0.00200	0.48	0.94	1.42
BAC-3	6.09	387	2900	0.648	7.6	3840	9800	<0.00200	0.0191	0.0827	<0.00200	<0.000500	0.0615	<0.00400	<0.00200	2.13	<0.000150	0.0367	0.019	<0.00200	0.99	1.1	2.09
BAC-4	< 0.500	53	473	1.35	7.96	181	1150	<0.00200	0.0407	0.0821	<0.00200	<0.000500	0.0022	<0.00400	<0.00200	0.476	<0.000150	0.0104	<0.00200	<0.00200	0.19	0.5	0.69
BAC-5	< 0.500	51.1	483	1.11	7.83	129	1010	<0.00200	0.0357	0.0928	<0.00200	<0.000500	0.0161	<0.00400	<0.00200	0.479	<0.000150	0.00926	<0.00200	<0.00200	0.29	0.96	1.25
BAC-6	4.36	142	516	0.754	7.68	1080	2410	<0.00200	0.0134	0.0622	<0.00200	<0.000500	0.0363	<0.00400	<0.00200	0.599	<0.000150	0.0968	<0.00200	<0.00200	0.39	1.4	1.79
BAC-7	4.65	148	665	1.01	7.77	1360	2910	<0.00200	0.0191	0.0577	<0.00200	<0.000500	0.0264	<0.00400	<0.00200	0.681	<0.000150	0.0699	0.00276	<0.00200	0.46	0.92	1.38

Bottom Ash	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
BA-U-1	14.56	7.93	-67	1590	106	2.51	-
BA-U-2	13.58	8.33	-85	1510	96.4	2.9	-
BAC-1	11.8	7.32	111	15100	54.8	1.84	9.35
BAC-2	15.7	7.12	79	11800	100	1.82	7.33
BAC-3	16.24	7.51	75	15000	34.2	1.36	9.28
BAC-4	14.36	7.93	12	2230	12.5	2.07	1.43
BAC-5	13.96	7.88	-18	2020	113	0.97	1.29
BAC-6	12.49	7.69	-157	3610	96.1	1.2	2.31
BAC-7	14.17	7.76	-96	4430	789	1.12	2.84

Waste Water	Results																						
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined
SI-U-1	0.594	171	667	<0.100	7.4	918	2300	<0.00200	0.00266	0.112	<0.00200	<0.000500	0.0099	<0.00400	<0.00200	0.49	<0.000150	0.00554	<0.00200	<0.00200	0.56	1.7	2.26
WW-U-1	1.05	374	2180	<0.100	7.06	1470	5430	<0.00200	0.00453	0.178	<0.00200	<0.000500	0.0032	<0.00400	<0.00200	0.983	<0.000150	0.00619	0.00549	<0.00200	1	2.3	3.3
WW-U-2	1.6	358	2430	<0.100	7.23	1370	5540	<0.00200	0.00309	0.123	<0.00200	<0.000500	0.00582	0.0072	<0.00200	0.934	<0.000150	0.0237	0.00543	<0.00200	0.84	2.1	2.94
WWC-1	9.62	561	4840	<0.100	7.19	3150	11800	<0.00200	0.0181	0.0536	<0.00200	<0.000500	0.0139	<0.00400	<0.00200	2.69	0.00031	0.00701	0.0152	<0.00200	0.31	0.83	1.14
WWC-2	< 0.500	66.5	381	0.158	7.91	147	940	<0.00200	0.0155	0.0511	<0.00200	<0.000500	0.00348	<0.00400	<0.00200	0.241	<0.000150	0.00383	<0.00200	<0.00200	0.12	1.1	1.22
WWC-3	< 0.500	34.5	284	1.01	8.11	82.2	688	<0.00200	0.0102	0.0638	<0.00200	<0.000500	0.00577	<0.00400	<0.00200	0.243	<0.000150	0.0459	<0.00200	<0.00200	0.32	0.55	0.87
WWC-4	1.09	247	1270	0.387	7.61	800	3250	<0.00200	0.0116	0.09	<0.00200	<0.000500	0.00877	<0.00400	<0.00200	0.909	<0.000150	0.00467	0.00207	<0.00200	0.5	0.45	0.95
WWC-5	2.4	345	1810	0.331	7.47	1610	5020	<0.00200	0.00783	0.103	<0.00200	<0.000500	0.00892	0.0055	<0.00200	4.41	<0.000150	0.0265	<0.00200	<0.00200	0.51	1.1	1.61

Waste Water	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
SI-U-1	10.79	7.27	-14	3720	74	6.93	-
WW-U-1	13.11	7.01	2	7920	32.9	3.2	-
WW-U-2	12.59	7.23	-11	7920	93.4	5.09	-
WWC-1	14.94	7.06	15	1850	110	1.28	11.5
WWC-2	17.36	7.88	-44	1680	79.9	1.08	1.07
WWC-3	13.92	8.1	-249	1430	121	1.29	0.918
WWC-4	14.73	7.4	-20	5230	61.1	1.52	3.3
WWC-5	15.35	7.3	-122	7740	348	0.97	4.88

Round 2 Detection Monitoring - February 23-March 8, 2016

Landfill Wells	Results																							Radium 226 and 228 combined		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
CL-U-1	< 0.500	47.7	391	0.839	8.52	123	908	<0.00200	0.0415	0.0953	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.401	<0.000150	0.00733	<0.00200	<0.00200	0.27	1.6	1.87			
CL-U-2	< 0.500	59.9	372	0.873	7.75	119	940	<0.00200	0.0243	0.0934	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.387	<0.000150	0.00414	<0.00200	<0.00200	0.28	1	1.28			
CLW-1	< 0.500	35.1	301	0.834	7.89	71.6	808	<0.00200	0.0266	0.0648	<0.00200	<0.000500	0.00235	<0.00400	<0.00200	0.361	<0.000150	0.00506	<0.00200	<0.00200	0.36	1.5	1.86			
CLW-2	< 0.500	45.9	378	1.18	7.66	90.5	936	<0.00200	0.0243	0.0882	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.438	<0.000150	0.00481	<0.00200	<0.00200	0.51	0.53	1.04			
CLW-3	< 0.500	40.5	336	1.35	7.92	96	884	<0.00200	0.0437	0.103	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.435	<0.000150	0.00409	<0.00200	<0.00200	0.47	1.1	1.57			
CLW-4	< 0.500	32.1	282	1.53	7.87	80.9	776	<0.00200	0.0271	0.109	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.375	<0.000150	0.00762	<0.00200	<0.00200	0.37	0.7	1.07			
CLW-5	< 0.500	35.4	318	1.82	7.91	85.7	824	<0.00200	0.0214	0.0869	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.411	<0.000150	0.00922	<0.00200	<0.00200	0.27	0.32	0.59			
CLW-6	< 0.500	32.1	306	1.72	7.97	75.4	816	<0.00200	0.0246	0.095	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.4	<0.000150	0.0117	<0.00200	<0.00200	0.02	0.96	0.98			
CLW-7	< 0.500	42.8	290	0.825	7.65	67.6	832	<0.00200	0.0239	0.0794	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.327	<0.000150	0.146	<0.00200	<0.00200	0.14	0.29	0.43			
CLW-8	< 0.500	41.5	293	0.782	7.8	70.3	808	<0.00200	0.022	0.0839	<0.00200	<0.000500	0.00224	<0.00400	<0.00200	0.35	<0.000150	0.00499	<0.00200	<0.00200	0.32	0.32	0.64			

Round 2

Landfill Wells	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
CL-U-1	14.18	8.74	-209	1750	4.3	2.15	1.12
CL-U-2	14.41	7.75	-89	1820	4.6	1.85	1.17
CLW-1	15.84	7.95	-60	1560	3.8	1.4	0.996
CLW-2	17.53	7.81	-137	1840	2	9.35	1.17
CLW-3	14.99	7.87	-203	1710	0	3.96	1.09
CLW-4	17.08	7.81	-211	1490	11.5	1.82	0.955
CLW-5	17.06	7.82	-168	1650	10.9	8.45	1.06
CLW-6	15.83	7.91	-194	1600	6.2	0.95	1.02
CLW-7	16.53	7.75	9	1560	3.5	2.67	0.996
CLW-8	15.86	7.81	-25	1560	8	1.92	0.996

Bottom Ash	Results																					Radium 226 and 228 combined		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228		
BA-U-1	< 0.500	28.7	258	1.67	8.55	64.2	852	<0.00200	0.023	0.0969	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.376	<0.000150	0.0359	<0.00200	<0.00200	0.33	1.3		
BA-U-2	< 0.500	67.4	529	0.938	8.02	55.7	1230	<0.00200	0.0199	0.175	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.514	<0.000150	0.00298	<0.00200	<0.00200	0.2	1		
BAC-1	2.85	155	1730	<0.100	7.86	1390	5240	<0.00200	0.0174	0.39	<0.00200	<0.000500	0.00536	<0.00400	<0.00200	0.63	<0.000150	0.0607	0.0131	<0.00200	0.96	1.6		
BAC-2	9.83	196	1600	<0.100	7.35	2900	7640	<0.00200	0.0411	0.0385	<0.00200	<0.000500	0.00742	<0.00400	0.00221	1.22	<0.000150	0.167	0.0128	<0.00200	0.4	2.5		
BAC-3	6.55	406	3240	<0.100	7.62	3960	10400	<0.00200	0.0192	0.0553	<0.00200	<0.000500	0.00676	<0.00400	<0.00200	1.12	<0.000150	0.0337	0.0184	<0.00200	0.44	0.68		
BAC-4	< 0.500	57.4	488	1.36	7.87	191	1290	<0.00200	0.0371	0.0806	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.532	<0.000150	0.0106	<0.00200	<0.00200	0.48	0.5		
BAC-5	< 0.500	41.3	433	1.34	7.95	111	1010	<0.00200	0.0392	0.0736	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.476	<0.000150	0.00758	<0.00200	<0.00200	0.25	-0.03		
BAC-6	2.67	98.4	491	0.734	7.72	636	1880	<0.00200	0.0144	0.0736	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.597	<0.000150	0.0569	<0.00200	<0.00200	0.61	0.6		
BAC-7	4.43	132	623	1.07	7.89	1230	2980	<0.00200	0.0225	0.0372	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.699	<0.000150	0.0681	0.00274	<0.00200	0.16	0.51		

Bottom Ash	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
BA-U-1	13.53	8.63	5	1550	11.3	2.59	0.995
BA-U-2	15.78	7.94	-167	2240	19.7	1.06	1.44
BAC-1	17.51	8.16	39	6.5	10.7	3	4.11
BAC-2	16.74	7.2	322	9.96	3.2	2.59	6.26
BAC-3	14.4	7.36	29	1590	3.8	3.35	9.84
BAC-4	15.9	7.81	-55	2370	3.9	2.08	1.51
BAC-5	16.34	7.92	-23	1980	4	2.89	1.27
BAC-6	18.19	7.67	-8	2.94	0	1.73	1.88
BAC-7	14.22	7.9	-9	4560	3.9	2.46	2.92

Waste Water	Results																						Radium 226 and 228 combined		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228			
SI-U-1	< 0.500	168	752	0.557	7.65	665	2320	<0.00200	0.00781	0.0846	<0.00200	<0.000500	0.00346	<0.00400	<0.00200	0.634	<0.000150	0.00671	<0.00200	<0.00200	0.43	-0.16	0.27		
WW-U-1	1.03	346	2430	<0.100	7.23	1440	5330	<0.00200	0.00446	0.123	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	1.33	<0.000150	0.00669	0.00432	<0.00200	1	2.2	3.2		
WW-U-2	1.59	362	2410	<0.100	7.34	1370	5780	<0.00200	0.00846	0.0761	<0.00200	<0.000500	0.00735	<0.00400	<0.00200	1.35	<0.000150	0.0126	0.0108	<0.00200	0.51	1.2	1.71		
WWC-1	6.01	458	4530	0.256	7.24	2710	10800	<0.00200	0.00331	0.072	<0.00200	<0.000500	0.00369	0.00842	<0.00200	1.08	<0.000150	0.0103	0.00919	<0.00200	0.91	1.6	2.51		
WWC-2	< 0.500	61.3	352	0.208	7.97	131	932	<0.00200	0.0147	0.0421	<0.00200	<0.000500	0.00335	<0.00400	<0.00200	0.162	<0.000150	0.00391	<0.00200	<0.00200	0.18	1	1.18		
WWC-3	< 0.500	29.2	203	0.845	8.2	78.5	660	<0.00200	0.021	0.0357	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.172	<0.000150	0.00593	<0.00200	<0.00200	0.16	0.52	0.68		
WWC-4	0.826	185	1100	0.39	7.31	716	3100	<0.00200	0.00923	0.101	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.75	<0.000150	0.00783	<0.00200	<0.00200	0.6	0.84	1.44		
WWC-5	1.59	320	1640	0.319	7.22	1210	4790	<0.00200	0.00371	0.0882	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	1.41	<0.000150	0.0205	0.00345	<0.00200	0.52	1.9	2.42		

Waste Water	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
SI-U-1	12.99	7.49	11	3790	7.4	1.37	2.42
WW-U-1	15.75	7.21	-117	8030	19.6	4.07	5.06
WW-U-2	14.5	7.34	-22	9240	12.9	2.4	5.82
WWC-1	15.29	7.11	-108	1420	11.8	7.82	8.62
WWC-2	14.19	7.75	-86	1700	9.1	2.37	1.1
WWC-3	15.63	8.1	-183	1190	2	1.36	0.759
WWC-4	15.58	7.37	-8	5004	4.7	1.61	3.18
WWC-5	15	7.22	19	7510	6.4	2	4.75

Date: 2/29/2016

Round 3 Detection Monitoring - June 6-15, 2016																										
Landfill Wells	Results																									
																							Radium 226 and 228 combined			
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
CL-U-1	< 0.500	51.2	414	1.01	7.83	122	1080	<0.00200	0.0507	0.0887	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.378	<0.000150	0.00491	<0.00200	<0.00200	0.11	0.72	0.83			
CL-U-2	< 0.500	53.7	390	1.14	7.75	121	976	<0.00200	0.0245	0.0933	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.346	<0.000150	0.00391	<0.00200	<0.00200	0.26	1.5	1.76			
CLW-1	< 0.500	34.6	312	1.13	7.9	70.1	716	<0.00200	0.0285	0.0621	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.318	<0.000150	0.00438	<0.00200	<0.00200	0.28	0.89	1.17			
CLW-2	< 0.500	43.9	402	1.21	7.84	87.9	976	<0.00200	0.0264	0.0819	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.396	<0.000150	0.00427	<0.00200	<0.00200	0.25	1.1	1.35			
CLW-3	< 0.500	36.2	346	1.3	7.86	104	876	<0.00200	0.0402	0.0992	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.375	<0.000150	0.00463	<0.00200	<0.00200	0.35	1.2	1.55			
CLW-4	< 0.500	30.6	294	1.58	7.79	77.9	748	<0.00200	0.0196	0.119	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.338	<0.000150	0.0092	<0.00200	<0.00200	0.45	0.72	1.17			
CLW-5	< 0.500	33	336	1.81	7.86	84.9	848	<0.00200	0.0182	0.0851	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.352	<0.000150	0.00868	<0.00200	<0.00200	0.27	0.65	0.92			
CLW-6	< 0.500	29.8	313	1.73	7.9	73.2	756	<0.00200	0.0181	0.0901	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.333	<0.000150	0.0105	<0.00200	<0.00200	0.34	1.4	1.74			
CLW-7	< 0.500	39.3	328	1.16	7.64	67.4	732	<0.00200	0.0246	0.0581	<0.00200	<0.000500	0.00891	<0.00400	<0.00200	0.331	<0.000150	0.00638	<0.00200	<0.00200	0.19	0.55	0.74			
CLW-8	< 0.500	40.3	312	1.08	7.82	69.7	808	<0.00200	0.0225	0.0797	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.32	<0.000150	0.00435	<0.00200	<0.00200	0.27	0.32	0.59			
Bottom Ash	Results																									
																							Radium 226 and 228 combined			
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
BA-U-1	< 0.500	195	1130	0.801	7.63	339	2520	<0.00200	0.0177	0.0935	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.773	<0.000150	0.00317	0.00426	<0.00200	0.3	1.6	1.9			
BA-U-2	< 0.500	15.9	284	0.865	12	40.6	720	<0.00200	<0.00200	0.128	<0.00200	<0.000500	0.0032	<0.00400	<0.00200	0.315	<0.000150	0.016	<0.00200	<0.00200	0.22	1.5	1.72			
BAC-1	4.73	191	2240	0.402	7.59	1840	6420	<0.00200	0.0164	0.081	<0.00200	<0.000500	0.0033	<0.00400	<0.00200	1.3	<0.000150	0.0669	0.0168	<0.00200	0.51	1.3	1.81			
BAC-2	11.2	216	1650	0.986	7.17	3220	7520	<0.00200	0.0416	0.0248	<0.00200	<0.000500	0.00488	<0.00400	<0.00200	1.32	<0.000150	0.14	0.0142	<0.00200	0.17	1.6	1.77			
BAC-3	6.82	445	3230	0.794	7.42	4490	10900	<0.00200	0.0158	0.048	<0.00200	<0.000500	0.00707	<0.00400	<0.00200	2.53	<0.000150	0.0269	0.0198	<0.00200	0.25	1.6	1.85			
BAC-4	< 0.500	66.1	551	1.38	7.73	223	1280	<0.00200	0.0334	0.0772	<0.00200	<0.000500	0.00461	<0.00400	<0.00200	0.509	<0.000150	0.0122	<0.00200	<0.00200	0.16	0.68	0.84			
BAC-5	< 0.500	50.4	541	1.26	7.79	122	1220	<0.00200	0.0337	0.0839	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.494	<0.000150	0.00738	<0.00200	<0.00200	0.11	1.7	1.81			
BAC-6	1.7	89.5	521	1.04	7.72	448	1560	<0.00200	0.0122	0.0859	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.542	<0.000150	0.0359	<0.00200	<0.00200	0.27	0.76	1.03			
BAC-7	4.51	132	685	1.31	7.69	1370	2870	<0.00200	0.0234	0.0315	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.674	<0.000150	0.0749	0.00319	<0.00200	0.17	2.4	2.57			
Waste Water	Results																									
																							Radium 226 and 228 combined			
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
SI-U-1	< 0.500	129	901	0.564	7.6	318	1880	<0.00200	0.00989	0.0929	<0.00200	<0.000500	0.0156	<0.00400	<0.00200	0.499	<0.000150	0.00411	<0.00200	<0.00200	0.45	0.64	1.09			
WW-U-1	1.18	296	2030	0.386	7.21	1300	5820	<0.00200	0.0052	0.115	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	1	<0.000150	0.00888	0.00637	<0.00200	0.64	0.92	1.56			
WW-U-2	1.49	412	2300	0.534	7.33	1180	5400	<0.00200	0.00538	0.0746	<0.00200	<0.000500	0.0114	<0.00400	<0.00200	1.08	<0.000150	0.0126	0.0107	<0.00200	0.64	1.1	1.74			
WWC-1	3.59	526	3950	<0.100	7.12	1990	8820	<0.00200	0.00401	0.077	<0.00200	<0.000500	<0.00200	0.00532	<0.00200	2.18	<0.000150	0.00653	0.00824	<0.00200	0.47	2	2.47			
WWC-2	< 0.500	59.1	369	0.833	7.79	145	956	<0.00200	0.0151	0.0408	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.225	<0.000150	0.00402	<0.00200	<0.00200	0.22	0.39	0.61			
WWC-3	< 0.500	26.4	197	1.02	8.12	85.6	664	<0.00200	0.0213	0.0328	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.23	<0.000150	0.00574	<0.00200	<0.00200	0.13	3.3	3.43			
WWC-4	0.627	138	902	0.576	7.57	406	2010	<0.00200	0.00498	0.0768	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.606	<0.000150	0.0082	<0.00200	<0.00200	0.27	1.7	1.97			
WWC-5	1.65	406	1730	0.3	7.24	1140	5060	<0.00200	0.00608	0.067	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	1.4	<0.000150	0.0119	0.00363	<0.00200	0.42	0.85	1.27			
Round 3																										
Landfill Wells	Field Results																									
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS																			
CL-U-1	18.94	8.04	-204	1910	22.6	1.2	1.22																			
CL-U-2	18.47	7.7	-136	1900	1	2.72	1.22																			
CLW-1	23.71	7.77	62	1550	0	1.34	0.99																			
CLW-2	22.15	7.66	-169	1840	0	1.31	1.17																			
CLW-3	20.8	7.71	-225	1720	0.8	1.8	1.1																			
CLW-4	19.51	7.8	-235	1480	0	4.39	0.95																			
CLW-5	21.24	7.77	-209	1570	11.5	4.22	1.01																			
CLW-6	18.81	7.87	-235	1600	0	1.7	1.02																			
CLW-7	16.73	7.62	66	1580	8.9	3.82	1.01																			
CLW-8	20.93	7.66	55	1510	0	12.58	0.966																			
Bottom Ash	Field Results																									
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS																			
BA-U-1	18.51	7.48	-114	4730	4.9	1.73	3.03																			
BA-U-2	20.17	11.9	-206	1980	5.1	4.04	1.26																			
BAC-1	20.91	7.43	-5	10.3	33.2	3.43	6.41																			
BAC-2	19.81	7.01	33	11.6	2	0.69	7.18																			
BAC-3	18.81	7.19	16	16.6	2.6	1.26	10.3																			
BAC-4	18.21	7.71	83	2490	2.6	3.05	1.59																			
BAC-5	18.58	7.75	51	2260	0	1320	1.45																			
BAC-6	20.42	7.7	50	2740	0.4	21.84	1.75																			
BAC-7	21.43	7.63	-7	4510	8	15.04	2.89																			
Waste Water	Results																									
																							Radium 226 and 228 combined			
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
SI-U-1	< 0.500	129	901	0.564	7.6	318	1880	<0.00200	0.00989	0.0929	<0.00200	<0.000500	0.0156	<0.00400	<0.00200	0.499	<0.000150	0.00411	<0.00200	<0.00200	0.45	0.64	1.09			
WW-U-1	1.18	296	2030	0.386	7.21	1300	5820	<0.00200	0.0052	0.115	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	1	<0.000150	0.00888	0.00637	<0.00200	0.64	0.92	1.56			
WW-U-2	1.49	412	2300	0.534	7.33	1180	5400	<0.00200	0.00538	0.0746	<0.00200	<0.000500	0.0114	<0.00400	<0.00200	1.08	<0.000150	0.0126	0.0107	<0.00200	0.64	1.1	1.74			
WWC-1	3.59	526	3950	<0.100	7.12	1990	8820	<0.00200	0.00401	0.077	<0.00200	<0.000500	<0.00200	0.00532	<0.00200	2.18	<0.000150	0.00653	0.00824	<0.00200	0.47	2	2.47			
WWC-2	< 0.500	59.1	369	0.833	7.79	145	956	<0.00200	0.0151	0.0408	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.225	<0.000150	0.00402	<0.00200	<0.00200	0.22	0.39	0.61			
WWC-3	< 0.500	26.4	197	1.02	8.12	85.6	664	<0.00200	0.0213	0.0328	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.23	<0.000150	0.00574	<0.00200	<0.00200	0.13	3.3	3.43			
WWC-4	0.627	138	902	0.576	7.57	406	2010	<0.00200	0.00498	0.0768	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.606	<0.000150	0.0082	<0.00200	<0.00200	0.27	1.7	1.97			

Round 4 Detection Monitoring - August 22-September 1, 2016																								
Landfill Wells	Results																						Radium 226 and 228 combined	
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228		
CL-U-1	< 0.500	54.8	424	1.03	7.63	124	1030	<0.00200	0.0301	0.0911	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.375	<0.000150	0.00428	<0.00200	<0.00200	0.36	0.44	0.8	
CL-U-2	< 0.500	57.7	406	1.17	7.69	113	948	<0.00200	0.0265	0.0961	<0.00200	<0.000500	0.00227	<0.00400	<0.00200	0.351	<0.000150	0.00508	<0.00200	<0.00200	0.31	1.1	1.41	
CLW-1	< 0.500	35	315	1.18	7.89	65.4	832	<0.00200	0.0279	0.0594	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.316	<0.000150	0.00454	<0.00200	<0.00200	0.52	0.86	1.38	
CLW-2	< 0.500	46.8	424	1.29	7.75	89.2	992	<0.00200	0.0284	0.0823	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.391	<0.000150	0.00462	<0.00200	<0.00200	0.31	0.62	0.93	
CLW-3	< 0.500	38.7	349	1.33	7.75	109	896	<0.00200	0.0412	0.0995	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.368	<0.000150	0.00472	<0.00200	<0.00200	0.3	0.15	0.45	
CLW-4	< 0.500	32.1	318	1.53	7.81	84.5	808	<0.00200	0.0316	0.104	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.336	<0.000150	0.00577	<0.00200	<0.00200	0.39	0.62	1.01	
CLW-5	< 0.500	34.3	350	1.83	7.75	92.1	860	<0.00200	0.0189	0.0803	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.346	<0.000150	0.00798	<0.00200	<0.00200	0.24	0.27	0.51	
CLW-6	< 0.500	31.5	331	1.73	7.84	77.1	812	<0.00200	0.0164	0.0966	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.342	<0.000150	0.011	<0.00200	<0.00200	0.2	1	1.2	
CLW-7	< 0.500	42.1	336	1.1	7.71	70	760	<0.00200	0.024	0.0529	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.302	<0.000150	0.00396	<0.00200	<0.00200	0.17	0.33	0.5	
CLW-8	< 0.500	40.1	327	1.08	7.73	75	720	<0.00200	0.0224	0.0761	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.308	<0.000150	0.00459	<0.00200	<0.00200	0.35	1	1.35	

Bottom Ash	Results																						Radium 226 and 228 combined	
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228		
BA-U-1	< 0.500	180	1170	0.888	7.62	327	2390	<0.00200	0.0191	0.0802	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.684	<0.000150	0.00386	0.00384	<0.00200	0.45	0.84	1.29	
BA-U-2	< 0.500	10.4	317	0.975	11.8	39.9	748	<0.00200	0.00225	0.114	<0.00200	<0.000500	0.00216	<0.00400	<0.00200	0.337	<0.000150	0.0147	<0.00200	<0.00200	0.26	1.1	1.36	
BAC-1	4.95	221	2520	0.401	7.52	2380	7210	<0.00200	0.0146	0.0643	<0.00200	<0.000500	0.0028	<0.00400	<0.00200	1.42	<0.000150	0.0603	0.0148	<0.00200	0.63	0.64	1.27	
BAC-2	10.5	203	1640	1.03	7.22	3180	7620	<0.00200	0.0431	0.0237	<0.00200	<0.000500	0.0081	<0.00400	<0.00200	1.17	<0.000150	0.166	0.0136	<0.00200	0.33	0.23	0.56	
BAC-3	6.77	399	3350	1.28	7.36	4630	11700	<0.00200	0.0213	0.0436	<0.00200	<0.000500	0.00386	<0.00400	<0.00200	2.37	<0.000150	0.0294	0.019	<0.00200	0.38	0.76	1.14	
BAC-4	< 0.500	56.1	498	1.35	7.62	210	1460	<0.00200	0.0358	0.0757	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.508	<0.000150	0.0103	<0.00200	<0.00200	0.19	0.83	1.02	
BAC-5	< 0.500	49.4	561	1.25	7.68	127	1200	<0.00200	0.0331	0.0879	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.538	<0.000150	0.0077	<0.00200	<0.00200	0.1	0.46	0.56	
BAC-6	1.38	80.2	546	0.901	7.61	502	1540	<0.00200	0.0115	0.0781	<0.00200	0.000677	0.00283	<0.00400	<0.00200	0.54	<0.000150	0.034	<0.00200	<0.00200	0.31	0.24	0.55	
BAC-7	3.96	126	612	1.28	7.68	1370	2770	<0.00200	0.0232	0.0274	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.669	<0.000150	0.0942	0.00257	<0.00200	0.37	-0.17	0.2	

Waste Water	Results																						Radium 226 and 228 combined	
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228		
SI-U-1	< 0.500	131	922	0.564	7.57	281	1880	<0.00200	0.00926	0.0858	<0.00200	<0.000500	0.00217	<0.00400	<0.00200	0.467	<0.000150	0.00295	<0.00200	<0.00200	0.45	0.96	1.41	
WW-U-1	1.25	304	2200	0.327	7.21	1280	5270	<0.00200	0.00439	0.0916	<0.00200	<0.000500	0.00337	<0.00400	<0.00200	1.01	<0.000150	0.00835	0.00689	<0.00200	0.54	2	2.54	
WW-U-2	0.641	308	2140	0.614	7.42	854	4550	<0.00200	0.00258	0.117	<0.00200	<0.000500	0.00424	<0.00400	<0.00200	0.994	<0.000150	0.0342	0.00617	<0.00200	0.82	1.6	2.42	
WWC-1	10.2	457	4680	0.213	7.11	3130	12100	<0.00200	0.02	0.0335	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	2.41	0.00019	0.00966	0.0145	<0.00200	0.33	0.86	1.19	
WWC-2	< 0.500	57.9	389	0.508	7.86	151	960	<0.00200	0.0152	0.0406	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.243	<0.000150	0.0034	<0.00200	<0.00200	0.69	1.2	1.89	
WWC-3	< 0.500	27.3	220	1.03	8.02	78	628	<0.00200	0.0217	0.0342	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.241	<0.000150	0.00559	<0.00200	<0.00200	0.2	-0.34	-0.14	
WWC-4	1.17	225	1330	0.422	7.37	868	3230	<0.00200	0.0131	0.065	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.879	<0.000150	0.00237	0.00238	<0.00200	0.27	0.48	0.75	
WWC-5	2.87	326	1920	0.366	7.18	1700	5440	<0.00200	0.00717	0.0439	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	1.33	<0.000150	0.00742	0.00312	<0.00200	0.41	0.51	0.92	

Date: 8/26/2016

Waste Water	Field Results																							
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS																	
SI-U-1	21.31	7.57	-21	3.25	1.6	14.7	2.08																	

Round 5 Detection Monitoring - October 17-26, 2016

Landfill Wells	Results																							
	Radium 226 and 228 combined																							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228		
CL-U-1	< 0.500	57.4	424	0.959	7.7	115	912	<0.00200	0.037	0.089	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.217	<0.000150	0.00404	<0.00200	<0.00200	0.25	0.18	0.43	
CL-U-2	< 0.500	59.5	395	0.99	7.73	113	864	<0.00200	0.0269	0.101	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.206	<0.000150	0.00401	<0.00200	<0.00200	0.36	0.84	1.2	
CLW-1	< 0.500	38.9	325	1.15	7.8	67.8	824	<0.00200	0.0295	0.0668	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.189	<0.000150	0.0043	<0.00200	<0.00200	0.27	0.19	0.46	
CLW-2	< 0.500	49.2	422	1.13	7.82	85.3	984	<0.00200	0.0258	0.0855	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.223	<0.000150	0.00456	<0.00200	<0.00200	0.31	0.34	0.65	
CLW-3	< 0.500	40.8	366	1.19	7.83	100	944	<0.00200	0.0412	0.104	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.214	<0.000150	0.00508	<0.00200	<0.00200	0.35	0.13	0.48	
CLW-4	< 0.500	34.6	335	1.39	7.84	85.9	828	<0.00200	0.0385	0.0932	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.203	<0.000150	0.00414	<0.00200	<0.00200	0.59	-0.37	0.22	
CLW-5	< 0.500	35.3	339	1.69	7.89	82.1	928	<0.00200	0.0206	0.0812	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.204	<0.000150	0.00723	<0.00200	<0.00200	0.31	0.84	1.15	
CLW-6	< 0.500	33.9	325	1.46	7.85	77.9	972	<0.00200	0.0287	0.0908	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.203	<0.000150	0.00638	<0.00200	<0.00200	0.35	0.18	0.53	
CLW-7	< 0.500	42.8	343	1.14	7.9	68.6	796	<0.00200	0.0235	0.0551	<0.00200	<0.000500	0.00234	<0.00400	<0.00200	0.182	<0.000150	0.00413	<0.00200	<0.00200	0.27	0.32	0.59	
CLW-8	< 0.500	41.7	334	1.11	7.77	68.9	744	<0.00200	0.0258	0.0797	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.189	<0.000150	0.00428	<0.00200	<0.00200	0.37	-0.28	0.09	

Bottom Ash	Results																							
	Radium 226 and 228 combined																							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228		
BA-U-1	< 0.500	16.7	327	1.65	9.08	60.2	832	<0.00200	0.0362	0.0679	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.215	<0.000150	0.0163	<0.00200	<0.00200	0.67	0.13	0.8	
BA-U-2	< 0.500	38.1	357	1.02	8.56	51.9	824	<0.00200	0.0234	0.131	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.21	<0.000150	0.00449	<0.00200	<0.00200	0.57	0.42	0.99	
BAC-1	3.42	131	1850	0.437	8.8	1610	7720	<0.00200	0.0103	0.049	<0.00200	<0.000500	0.00612	<0.00400	<0.00200	0.402	<0.000150	0.0498	0.00852	<0.00200	0.34	0.27	0.61	
BAC-2	9.71	216	1620	1.11	7.34	2980	7040	<0.00200	0.0444	0.0228	<0.00200	<0.000500	0.00644	<0.00400	<0.00200	0.414	<0.000150	0.165	0.0131	<0.00200	0.25	-0.03	0.22	
BAC-3	7.04	401	3160	0.76	7.39	4260	11400	<0.00200	0.0226	0.0404	<0.00200	<0.000500	0.00362	<0.00400	<0.00200	0.812	<0.000150	0.0275	0.0195	<0.00200	0.24	0.14	0.38	
BAC-4	< 0.500	59.2	534	1.34	7.8	222	1230	<0.00200	0.0352	0.0723	<0.00200	<0.000500	0.00212	<0.00400	<0.00200	0.243	<0.000150	0.00992	<0.00200	<0.00200	0.09	0.4	0.49	
BAC-5	< 0.500	40.5	479	1.33	7.85	110	1070	<0.00200	0.0359	0.0909	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.219	<0.000150	0.00715	<0.00200	<0.00200	0.2	-0.01	0.19	
BAC-6	4.35	133	606	0.97	7.61	1080	2620	<0.00200	0.022	0.0287	<0.00200	<0.000500	0.00257	<0.00400	<0.00200	0.266	<0.000150	0.0858	0.00369	<0.00200	0.13	0.69	0.82	
BAC-7	3.97	135	628	1.42	7.69	1340	2880	<0.00200	0.0241	0.026	<0.00200	<0.000500	0.00217	<0.00400	<0.00200	0.279	<0.000150	0.0944	0.00279	<0.00200	0.26	1.1	1.36	

Waste Water	Results																							
	Radium 226 and 228 combined																							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228		
SI-U-1	< 0.500	132	863	0.514	7.52	286	1850	<0.00200	0.00895	0.0871	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.254	<0.000150	0.00276	<0.00200	<0.00200	0.32	0.11	0.43	
WW-U-1	1.23	348	2190	0.346	7.18	1230	5370	<0.00200	0.0041	0.0771	<0.00200	<0.000500	0.00538	<0.00400	<0.00200	0.479	<0.000150	0.00891	0.00579	<0.00200	0.73	0.17	0.9	
WW-U-2	1.47	383	2340	0.416	7.22	1120	5540	<0.00200	0.00573	0.0704	<0.00200	<0.000500	0.00396	<0.00400	<0.00200	0.512	<0.000150	0.0111	0.0116	<0.00200	0.78	0.46	1.24	
WWC-1	9.83	513	4540	0.133	7.04	2960	12500	<0.00200	0.0197	0.0317	<0.00200	<0.000500	0.00348	<0.00400	<0.00200	0.819	0.000198	0.00936	0.0153	<0.00200	0.23	0.73	0.96	
WWC-2	< 0.500	58.5	369	0.42	7.88	140	960	<0.00200	0.0129	0.0543	<0.00200	<0.000500	0.0243	<0.00400	<0.00200	0.112	<0.000150	0.00809	<0.00200	<0.00200	0.1	0.45	0.55	
WWC-3	< 0.500	27.7	224	1.08	8.01	86.1	612	<0.00200	0.0218	0.0332	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.123	<0.000150	0.00543	<0.00200	<0.00200	0.07	0.1	0.17	
WWC-4	1.19	227	1200	0.509	7.32	763	3200	<0.00200	0.0136	0.0629	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.351	<0.000150	0.00222	0.00216	<0.00200	0.08	0.75	0.83	
WWC-5	3.02	343	1850	0.401	0.71	1570	5300	<0.00200	0.00778	0.0389	<0.00200	<0.000500	0.00238	<0.00400	<0.00200	0.497	<0.000150	0.00498	0.0041	<0.00200	0.43	1.1	1.53	

Date: 10/17/2016

Landfill Wells	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
CL-U-1	16.15	7.72	-195	1900	0.7	2.79	1.22
CL-U-2	16.89	7.67	-102	1820	0.4	0.82	1.17
CLW-1	16.85	7.77	-50	1520	2	1.57	0.974
CLW-2	17.05	7.76	-202	1900	0.4	3.82	1.21
CLW-3	15.28	7.75	-231	1720	1.8	1.29	1.1
CLW-4	14.67	7.78	-235	1620	7	1.4	1.04
CLW-5	17.4	7.71	-209	1690	8.1	1.41	1.08
CLW-6	15.85	7.83	-249	1620	1.1	1.72	1.04
CLW-7	17.42	7.7	-73	564	0	13.65	0.361
CLW-8	17.18	7.7	-100	1530	2.2	1.03	0.978

Bottom Ash	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
BA-U-1	16.41	9.07	6	1660	3.2	1.88	1.06
BA-U-2	16.67	8.77	-318	1600	1.7	1.76	1.03
BAC-1	18.66	7.57	-144	8800	7.7	0.55	6.19
BAC-2	19.51	7.01	-2	10200	0.6	0.46	6.34
BAC-3	18.63	7.15	2	16700	20	4.99	10.4
BAC-4	16.35	7.72	-120	0.859	3	4.2	0.55
BAC-5	16.43	7.85	-64	726	1.4	12.41	0.464
BAC-6	16.07	7.62	-86	1370	11.4	1.77	0.879
BAC-7	16.64	7.59	-67	1560	4.6	12.42	0.998

Waste Water	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
SI-U-1	16.62	7.47	-22	3370	1	9	2.16
WW-U-1	17.72	6.99	7	8330	3	1.89	5.25
WW-U-2	17.84	7.19	-10	8400	2.6	1.89	5.29
WWC-1	15.78	6.93	-22	18600	0	0.51	11.6
WWC-2	15.91	7.75	-210	1680	6	1.08	1.07
WWC-3	16.26	7.94	-166	1210	0	0.24	0.772
WWC-4	16.51	7.22	-41	5140	0.2	1.09	3.24
WWC-5	15.83	7.02	-87	7930	0.2	0.37	4.99

Round 6 Detection Monitoring - March 20-30, 2017																								
Landfill Wells	Results																							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined	
CL-U-1	< 0.500	57.1	403	0.876	7.83	113	908	<0.00200	0.0322	0.0867	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.214	<0.000150	0.00365	<0.00200	<0.00200	0.62	0.22	0.62	
CL-U-2	< 0.500	61.2	374	0.903	7.89	110	852	<0.00200	0.0272	0.0976	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.208	<0.000150	0.00386	<0.00200	<0.00200	0.4	0.39	0.4	
CLW-1	< 0.500	38.4	295	1.05	7.83	62.4	768	<0.00200	0.0309	0.0631	<0.00200	<0.000500	0.0187	<0.00400	<0.00200	0.185	<0.000150	0.00654	<0.00200	<0.00200	0.41	0.78	1.2	
CLW-2	< 0.500	49.7	377	1.07	7.85	92.9	936	<0.00200	0.0277	0.0811	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.219	<0.000150	0.00437	<0.00200	<0.00200	0.31	0.72	1	
CLW-3	< 0.500	42.4	333	1.23	7.87	94.4	876	<0.00200	0.0423	0.103	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.214	<0.000150	0.00473	<0.00200	<0.00200	0.35	0.7	1.1	
CLW-4	< 0.500	35.2	306	1.27	8.02	79.1	808	<0.00200	0.0388	0.0898	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.202	<0.000150	0.00439	<0.00200	<0.00200	0.39	0.12	0.39	
CLW-5	< 0.500	36	320	1.71	7.88	79.9	748	<0.00200	0.0216	0.0801	<0.00200	<0.000500	0.00214	<0.00400	<0.00200	0.025	<0.000150	0.00666	<0.00200	<0.00200	0.4	0.38	0.4	
CLW-6	< 0.500	33.4	302	1.48	7.91	66	752	<0.00200	0.0164	0.0976	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.193	<0.000150	0.00805	<0.00200	<0.00200	0.25	-0.35	0.25	
CLW-7	< 0.500	46.4	312	1.02	7.68	61	824	<0.00200	0.0257	0.0545	<0.00200	<0.000500	0.00772	<0.00400	<0.00200	0.182	<0.000150	0.00425	<0.00200	<0.00200	0.14	0.18	0.14	
CLW-8	< 0.500	42.8	301	1.03	7.71	63.8	772	<0.00200	0.0255	0.0707	<0.00200	<0.000500	0.012	<0.00400	<0.00200	0.189	<0.000150	0.00526	<0.00200	<0.00200	0.25	0.29	0.25	

Bottom Ash	Results																							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined	
BA-U-1	< 0.500	24.5	259	1.57	8.59	48.8	648	<0.00200	0.0359	0.0856	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.193	<0.000150	0.0124	<0.00200	<0.00200	0.28	0.15	0.28	
BA-U-2	< 0.500	3.76	328	0.886	12.1	39.2	728	<0.00200	0.00254	0.122	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.221	<0.000150	0.00986	<0.00200	<0.00200	0.3	0.47	0.3	
BAC-1	4.01	188	2170	<0.100	7.47	1650	6320	<0.00200	0.0202	0.279	<0.00200	<0.000500	0.0412	<0.00400	<0.00200	0.429	<0.000150	0.0391	0.0152	<0.00200	1.1	1.5	2.6	
BAC-2	10.5	193	1480	0.871	7.2	2780	7320	<0.00200	0.0469	0.022	<0.00200	<0.000500	0.0145	<0.00400	<0.00200	0.44	<0.000150	0.194	0.0144	<0.00200	0.34	0.22	0.56	
BAC-3	7.57	408	3140	<0.100	7.36	4290	13000	<0.00200	0.0239	0.0376	<0.00200	<0.000500	0.00447	<0.00400	<0.00200	0.974	<0.000150	0.026	0.0211	<0.00200	0.2	0.5	0.7	
BAC-4	< 0.500	59	461	1.13	7.68	206	1260	<0.00200	0.0362	0.0705	<0.00200	<0.000500	0.011	<0.00400	<0.00200	0.237	<0.000150	0.012	<0.00200	<0.00200	0.13	0.18	0.13	
BAC-5	< 0.500	59.5	576	0.994	7.73	190	1430	<0.00200	0.032	0.0893	<0.00200	<0.000500	0.00204	<0.00400	<0.00200	0.277	<0.000150	0.00666	<0.00200	<0.00200	0.21	0.24	0.45	
BAC-6	4.44	128	594	0.763	7.6	1040	2500	<0.00200	0.0237	0.0269	<0.00200	<0.000500	0.00205	<0.00400	<0.00200	0.28	<0.000150	0.0873	0.0045	<0.00200	0.12	-0.21	-0.09	
BAC-7	3.31	151	591	0.936	7.43	1140	3120	<0.00200	0.0237	0.0253	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.327	<0.000150	0.0702	0.007	<0.00200	0.21	0.7	0.91	

Waste Water	Results																							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined	
SI-U-1	< 0.500	131	785	0.458	7.54	247	1760	<0.00200	0.00941	0.08	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.25	<0.000150	0.00227	<0.00200	<0.00200	0.33	0.24	0.33	
WW-U-1	1.15	336	1880	0.2	7.26	1180	4890	<0.00200	0.00593	0.0568	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.477	<0.000150	0.00558	0.00583	<0.00200	0.53	0.89	1.42	
WW-U-2	0.6	317	1860	0.438	7.38	734	4300	<0.00200	0.00355	0.095	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.479	<0.000150	0.021	0.00749	<0.00200	0.51	1.6	2.11	
WWC-1	11.2	479	4510	<0.100	6.98	2940	12200	<0.00200	0.0213	0.0288	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.932	0.000328	0.00995	0.0149	<0.00200	0.26	1.1	1.36	
WWC-2	< 0.500	52	318	0.405	7.79	125	856	<0.00200	0.0149	0.0361	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.122	<0.000150	0.00357	<0.00200	<0.00200	0.17	0.61	0.78	
WWC-3	< 0.500	25.7	195	0.852	8.13	76	680	<0.00200	0.0227	0.0302	<0.00200	<0.000500	0.00309	<0.00400	<0.00200	0.137	<0.000150	0.00537	<0.00200	<0.00200	0.24	-0.21	0.03	
WWC-4	1.3	233	1250	0.319	7.38	819	3230	<0.00200	0.0135	0.061	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.382	<0.000150	<0.00200	0.00239	<0.00200	0.18	-0.2	-0.02	
WWC-5	1.72	318	1520	0.292	7.13	1190	4560	<0.00200	0.01	0.0501	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.555	<0.000150	0.00523	0.00399	<0.00200	0.23	0.95	1.18	

Date: 3/23/2017

Round 6							
Landfill Wells	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
CL-U-1	17.27	7.52	-194	957	4.2	2.53	0.613
CL-U-2	15.81	7.48	-139	929	0	10.45	0.598
CLW-1	14.45	7.6	-173	1540	0	5.98	0.984
CLW-2	16.63	7.58	-221	950	0	9.29	0.609
CLW-3	16.58	7.66	-235	840	0	10.64	0.539
CLW-4	16.67	7.68	-253	785	0	2.14	0.502
CLW-5	16.63	7.6	-222	834	0	2.29	0.534
CLW-6	15.51	7.65	-245	790	0	8.85	0.505
CLW-7	15.48	7.52	-150	1600	0	1.94	1.02
CLW-8	15.08	7.57	-159	1550	0	1.55	0.991

Bottom Ash	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
BA-U-1	16.08	8.22	55	783	1.8	6.02	0.501
BA-U-2	17.77	11.71	-250	2120	1.9	7.87	1.36
BAC-1	16.44	7.24	-131	9640	11.2	2.14	6.07
BAC-2	15.89	6.86	-53	10400	0.1	0.6	6.44
BAC-3	15.61	7.1	-44	18000	3.4	0.5	11.2
BAC-4	14.42	7.58	-165	2400	0	2.76	1.53
BAC-5	15.18	7.53	-155	2550	0.1	0.57	1.63
BAC-6	16.07	7.42	-115	4030	0	0.32	2.58
BAC-7	16.54	7.34	-124	4780	1.5	0.38	3.06

Waste Water	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
SI-U-1	17.03	7.37	-45	3340	1.1	8.42	2.14
WW-U-1	18.15	6.96	-57	7980	11.5	1.02	5.02
WW-U-2	17.03	7.29	-15	7470	2.3	1.36	4.71
WWC-1	15.08	6.74	-32	19700	0.3	1.8	12.2
WWC-2	15.4	7.75	-134	1650	1	0.44	1.06
WWC-3	15.31	8.09	207	1230	1.2	0.22	0.784
WWC-4	15.85	7.18	-70	5390	0.5	3.15	3.39
WWC-5	16.2	6.84	-61	7180	0	0.62	4.52

Round 7 Detection Monitoring - June 5-21, 2017																								
Landfill Wells	Results																							Radium 226 and 228 combined
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228		
CL-U-1	< 0.500	53	480	0.996	7.74	132	1010	<0.00200	0.0344	0.0826	<0.00200	0.00065	<0.00200	<0.00400	<0.00200	0.202	<0.000150	0.00402	<0.00200	<0.00200	0.36	0.95	1.31	
CL-U-2	< 0.500	55.1	444	1	7.8	134	952	<0.00200	0.0247	0.0938	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.19	<0.000150	0.00408	<0.00200	<0.00200	2.7	1	3.7	
CLW-1	< 0.500	36.4	322	1.06	7.85	68.2	772	<0.00200	0.0289	0.0615	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.173	<0.000150	0.00389	<0.00200	<0.00200	0.2	0.14	0.34	
CLW-2	< 0.500	44.7	436	1.19	7.83	102	964	<0.00200	0.0246	0.0754	<0.00200	<0.000500	0.00411	<0.00400	<0.00200	0.211	<0.000150	0.00461	<0.00200	<0.00200	0.24	1	1.24	
CLW-3	< 0.500	37.3	380	1.23	7.85	106	856	<0.00200	0.0378	0.0951	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.197	<0.000150	0.00498	<0.00200	<0.00200	0.27	0.29	0.56	
CLW-4	< 0.500	30.6	345	1.44	7.89	86.3	816	<0.00200	0.0352	0.0885	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.189	<0.000150	0.00481	<0.00200	<0.00200	0.29	0.3	0.59	
CLW-5	< 0.500	32.4	358	1.82	7.86	91.6	860	<0.00200	0.0203	0.0732	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.188	<0.000150	0.00572	<0.00200	<0.00200	1.4	1.2	2.6	
CLW-6	< 0.500	31	336	1.61	7.9	77.5	768	<0.00200	0.02	0.0893	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	<0.100	0.183	<0.00200	0.0068	<0.00200	0.01	0.5	0.51	
CLW-7	< 0.500	41.5	352	1.01	7.88	70.4	832	<0.00200	0.0241	0.0514	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.169	<0.000150	0.0033	<0.00200	<0.00200	0.14	0.75	0.89	
CLW-8	< 0.500	38.4	339	1.02	7.81	73.1	812	<0.00200	0.0239	0.0681	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.176	<0.000150	0.00391	<0.00200	<0.00200	0.18	0.81	0.99	

Bottom Ash	Results																							Radium 226 and 228 combined
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228		
BA-U-1	< 0.500	26.3	317	1.75	8.32	52.9	776	<0.00200	0.0323	0.0901	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.191	<0.000150	0.0109	<0.00200	<0.00200	0.15	0.73	0.88	
BA-U-2	< 0.500	3.58	366	0.821	11.8	39.6	748	<0.00200	<0.00200	0.0899	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.215	<0.000150	0.0086	<0.00200	<0.00200	0.09	0.98	1.07	
BAC-1	1.91	88.7	914	0.266	8.92	702	2920	<0.00200	0.0145	0.0563	<0.00200	<0.000500	0.00666	<0.00400	<0.00200	0.305	<0.000150	0.0317	0.00643	<0.00200	0.2	0.99	1.19	
BAC-2	10.6	216	1730	<0.100	7.21	3260	7720	<0.00200	0.042	0.0211	<0.00200	<0.000500	0.00799	<0.00400	<0.00200	0.586	<0.000150	0.177	0.0138	<0.00200	0.14	0.64	0.78	
BAC-3	7.76	401	3510	<0.100	7.29	4900	13200	<0.00200	0.0251	0.0316	<0.00200	<0.000500	0.00858	<0.00400	<0.00200	1.17	<0.000150	0.0292	0.0212	<0.00200	0.3	0.76	1.06	
BAC-4	< 0.500	56.1	612	1.13	7.84	212	1220	<0.00200	0.0329	0.0666	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.228	<0.000150	0.0113	<0.00200	<0.00200	0.37	0.47	0.84	
BAC-5	< 0.500	58.3	654	1.1	7.76	217	1180	<0.00200	0.0297	0.0881	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.259	<0.000150	0.00728	<0.00200	<0.00200	0.31	0.28	0.59	
BAC-6	4.25	135	697	0.779	7.63	1110	2810	<0.00200	0.0229	0.0256	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.257	<0.000150	0.0921	0.00414	<0.00200	0.24	0.76	1	
BAC-7	3.4	146	632	0.864	7.78	1290	3170	<0.00200	0.0154	0.0288	<0.00200	<0.000500	0.00398	<0.00400	<0.00200	0.36	<0.000150	0.0888	0.00457	<0.00200	2.5	0.88	3.38	

Waste Water	Results																							Radium 226 and 228 combined
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228		
SI-U-1	< 0.500	116	763	0.522	7.56	427	1800	<0.00200	0.0101	0.0599	<0.00200	0.00128	0.00274	<0.00400	<0.00200	0.235	<0.000150	0.00233	<0.00200	<0.00200	0.2	1.3	1.5	
WW-U-1	1.18	312	2340	0.181	7.41	1450	4540	<0.00200	0.00568	0.0521	<0.00200	<0.000500	0.00212	<0.00400	<0.00200	0.441	<0.000150	0.00556	0.00625	<0.00200	1.2	1.5	2.7	
WW-U-2	0.741	338	2590	0.287	7.36	1040	12500	<0.00200	0.00325	0.0803	<0.00200	<0.000500	0.067	<0.00400	<0.00200	0.512	<0.000150	0.0226	0.00846	<0.00200	0.52	1.6	2.12	
WWC-1	9.88	413	4410	<0.100	7.14	2770	11000	<0.00200	0.0173	0.0326	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	1.11	0.000175	0.0147	0.0147	<0.00200	0.39	1.5	1.89	
WWC-2	< 0.500	49.5	326	0.447	7.85	134	832	<0.00200	0.0141	0.0339	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.138	<0.000150	0.00405	<0.00200	<0.00200	0.24	0.24	0.48	
WWC-3	< 0.500	25.9	220	0.974	8.12	84.3	696	<0.00200	0.0214	0.0281	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.146	<0.000150	0.00504	<0.00200	<0.00200	0.1	0.45	0.55	
WWC-4	1.33	229	1330	0.466	7.22	912	3060	<0.00200	0.013	0.0545	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.421	<0.000150	<0.00200	0.00241	<0.00200	0.22	0.74	0.96	
WWC-5	2.25	287	1790	<0.100	7.49	1420	4810	<0.00200	0.00753	0.0379	<0.00200	<0.000500	0.00202	<0.00400	<0.00200	0.567	<0.000150	0.00531	0.00336	<0.00200	0.2	1.5	1.7	

Landfill Wells	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
CL-U-1	16.35	7.59	-206	1920	0	1.51	1.23
CL-U-2	15.98	7.5	-177	1860	0	1.62	1.19
CLW-1	18.47	7.79	-160	768	0	0.9	0.491
CLW-2	16.77	7.73	-210	945	0	1.52	0.605
CLW-3	17.35	7.78	-246	879	0	213	0.562
CLW-4	17.86	7.75	-252	1580	0	4.35	1.01
CLW-5	18.97	7.66	-232	1680	0	2.65	1.08
CLW-6	16.95	7.75	-258	1590	0	5.1	1.02
CLW-7	18.07	7.7	-131	805	0	2.21	0.516
CLW-8	17.59	7.74	-130	776	0	1.58	0.497

Bottom Ash	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
BA-U-1	18.46	8.13	-138	1500	0	2.32	0.963
BA-U-2	19.9	11.43	-301	1870	0	0.58	1.2
BAC-1	22.57	9.92	-118	5180	15.6	2.32	3.27
BAC-2	19.02	7.09	-80	10900	2.2	0.84	6.76
BAC-3	18.87	7.1	-69	17800	3.2	1.02	11
BAC-4	17.01	7.62	-158	2380	0	1.61	1.52
BAC-5	17.31	7.69	-131	2560	0	2.62	1.64
BAC-6	19.46	7.59	-128	3900	35.2	0.85	2.5
BAC-7	17.97	7.5	-147	4610	2.9	1.16	2.95

Waste Water	Field Results									
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS			
SI-U-1	17.96	7.27	-138	3170	0	0.57	2.03			
WW-U-1	18.63	6.87	-32	8050	0	1	5.07			
WW-U-2	18.21	7.22	-161	7610	0	0.91	4.79			
WWC-1	16.96	6.95	-34	15200	0.1	0.67	9.48			
WWC-2	16.11	7.72	-169	1500	1.3	0.94	0.96			
WWC-3	16.94	7.99	-194	1210	0.7	0.63	0.773			
WWC-4	16.15	7.16	-73	5.48	0.5	0.6	3.46			
WWC-5	16.54	7.01	-42	7225	0.9	0.76	4.57			

Round 8 Detection Monitoring - September 25-October 4, 2017																										
Landfill Wells	Results																							Radium 226 and 228 combined		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
CL-U-1	< 0.500	52.1	422	1.07	7.73	116	1130	<0.00200	0.0291	0.088	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.228	<0.000150	0.00398	<0.00200	<0.00200	0.25	1.6	1.85			
CL-U-2	< 0.500	53.8	390	1.1	7.67	120	1060	<0.00200	0.0262	0.0941	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.212	<0.000150	0.00415	<0.00200	<0.00200	0.17	1.4	1.57			
CLW-1	< 0.500	35.7	310	1.15	7.85	71.7	808	<0.00200	0.0308	0.0614	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.192	<0.000150	0.00407	<0.00200	<0.00200	0.21	1.7	1.91			
CLW-2	< 0.500	43.5	407	1.23	7.76	97.3	1040	<0.00200	0.0257	0.0793	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.229	<0.000150	0.00467	<0.00200	<0.00200	0.12	3	3.12			
CLW-3	< 0.500	36.2	347	1.34	7.8	100	884	<0.00200	0.0408	0.102	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.223	<0.000150	0.00474	<0.00200	<0.00200	0.16	1.1	1.26			
CLW-4	< 0.500	30.5	313	1.6	7.81	85.1	856	<0.00200	0.0333	0.09	<0.00200	<0.000500	0.0516	<0.00400	<0.00200	0.199	<0.000150	0.0115	<0.00200	<0.00200	0.24	1.8	2.04			
CLW-5	< 0.500	33.2	344	1.82	7.8	88.5	824	<0.00200	0.023	0.0727	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.211	<0.000150	0.0052	<0.00200	<0.00200	0.2	2.2	2.4			
CLW-6	< 0.500	30.5	317	1.73	7.82	74.5	828	<0.00200	0.0143	0.0961	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.199	<0.000150	0.00721	<0.00200	<0.00200	0.29	1.7	1.99			
CLW-7	< 0.500	45.5	319	1.11	7.7	64.5	868	<0.00200	0.0244	0.0539	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.189	<0.000150	0.00389	<0.00200	<0.00200	0.45	0.95	1.4			
CLW-8	< 0.500	37.9	319	1.13	7.77	70.6	788	<0.00200	0.0252	0.0689	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.192	<0.000150	0.00431	<0.00200	<0.00200	0.25	1.6	1.85			

Bottom Ash	Results																							Radium 226 and 228 combined		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
BA-U-1	< 0.500	169	1040	1.02	7.53	343	2310	<0.00200	0.0215	0.0745	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.368	<0.000150	0.00296	0.00375	<0.00200	0.07	1.3	1.37			
BA-U-2	< 0.500	46.3	479	0.993	8.04	53.7	1140	<0.00200	0.0249	0.156	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.241	<0.000150	0.00294	<0.00200	<0.00200	0.24	1.5	1.74			
BAC-1	4.86	229	2620	0.854	7.4	2150	8400	<0.00200	0.0148	0.702	<0.00200	<0.000500	0.114	0.00461	<0.00200	0.52	<0.000150	0.0467	0.0174	<0.00200	0.39	1.6	1.99			
BAC-2	10.1	221	1690	1.33	7.62	2970	7940	<0.00200	0.0469	0.0202	<0.00200	<0.000500	0.00547	<0.00400	<0.00200	0.431	<0.000150	0.154	0.0149	<0.00200	0.11	0.14	0.25			
BAC-3	8.76	353	3370	2.51	7.43	5340	12700	<0.00200	0.054	0.0306	<0.00200	<0.000500	0.0114	<0.00400	<0.00200	0.897	<0.000150	0.0525	0.0287	<0.00200	0.23	1.3	1.53			
BAC-4	< 0.500	62.4	482	1.26	7.76	231	1280	<0.00200	0.0359	0.0703	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.262	<0.000150	0.0139	<0.00200	<0.00200	0.1	2.5	2.6			
BAC-5	< 0.500	67.5	593	1.17	7.74	269	1450	<0.00200	0.0325	0.0877	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.294	<0.000150	0.00838	<0.00200	<0.00200	0.26	2.7	2.96			
BAC-6	0.978	77.2	516	1.01	7.97	301	1510	<0.00200	0.0156	0.0833	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.265	<0.000150	0.0213	<0.00200	<0.00200	0.27	3.8	4.07			
BAC-7	3.41	144	633	1.15	7.65	1220	2990	<0.00200	0.0191	0.0223	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.285	<0.000150	0.074	0.00446	<0.00200	0.15	0.84	0.99			

Waste Water	Results																							Radium 226 and 228 combined		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
SI-U-1	< 0.500	110	820	0.618	7.55	263	1810	0.002	0.00969	0.0783	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.257	<0.000150	0.00251	<0.00200	<0.00200	0.44	0.56	1			
WW-U-1	1.2	311	2130	0.539	7.23	1280	5260	<0.00200	0.0055	0.0545	<0.00200	<0.000500	0.003309	<0.00400	<0.00200	0.459	<0.000150	0.00792	0.00697	<0.00200	0.34	1.2	1.54			
WW-U-2	1.66	314	2280	0.721	7.31	1220	5510	<0.00200	0.0104	0.0659	<0.00200	<0.000500	0.00415	<0.00400	<0.00200	0.485	<0.000150	0.00647	0.0122	<0.00200	0.24	1.3	1.54			
WWC-1	9.55	492	4430	0.507	7.37	2990	11500	<0.00200	0.0177	0.0272	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.755	0.000262	0.0068	0.014	<0.00200	0.26	1.2	1.46			
WWC-2	< 0.500	53.6	347	0.452	7.78	137	936	<0.00200	0.0142	0.0361	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.112	<0.000150	0.00341	<0.00200	<0.00200	0.04	1.2	1.24			
WWC-3	< 0.500	25.3	207	1.13	8.14	84	704	<0.00200	0.0207	0.0242	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.127	<0.000150	0.00477	<0.00200	<0.00200	0.08	2	2.08			
WWC-4	1.11	201	1100	0.57	7.38	744	3280	<0.00200	0.0135	0.0529	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.313	<0.000150	<0.00200	0.00214	<0.00200	0.38	0.4	0.78			
WWC-5	1.48	327	1620	0.544	7.16	1240	4590	<0.00200	0.0104	0.0438	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.496	<0.000150	0.00395	0.00407	<0.00200	0.41	0.65	1.06			

Landfill Wells	Field Results								Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
CL-U-1	16.07	7.45	-199	1930			0.4	0.56	1.24						
CL-U-2	15.67	7.43	-176	1880			0.8	0.58	1.2						
CLW-1	20.49	7.68	-172	1.48			0	0.41	0.949						
CLW-2	16.63	7.63	-199	1880			0.7	0.64	1.2						
CLW-3	16.82	7.59	-251	1750			1.5	2.9	1.12						
CLW-4	17.63	7.56	-269	1620			1.6	1.56	1.03						
CLW-5	17.21	7.71	-244	1690			3.7	1.12	1.09						
CLW-6	15.97	7.75	-259	1.6			2.3	3.3	1.02						
CLW-7	16.72	7.59	-147	1640			0	0.86	1.05						
CLW-8	18.26	7.65	-145	1.53			1.1	1.89	0.975						

Bottom Ash	Field Results								Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
BA-U-1	16.04	7.21	-166	4300			1.7	0.78	2.75						
BA-U-2	16.58	8.07	-272	2030			0	1.63	1.3						
BAC-1	15.36	6.93	-28	7170			1	0.54	4.52						
BAC-2	16.95	6.92	-20	11500			2	0.9	7.11						
BAC-3	16.87	7.07	-102	18.7			43.3	0.94	11.6						
BAC-4	16.67	7.68	-148	2470			1.1	0.62	1.58						
BAC-5	16.66	7.71	-140	2740			0.8	1.12	1.75						
BAC-6	17.02	7.83	-47	2610			0.9	2.54	1.67						
BAC-7	15.97	7.45	-121	4500			3.3	2.56	2.88						

Waste Water	Field Results											Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
SI-U-1	17.02	7.36	-123	3490			0	1.25	2.24									
WW-U-1	16.41	6.96	-135	8820			0.7	1.56	5.56									
WW-U-2	16.68	7.09	-34	9.23			0.6	3.75	5.82									
WWC-1	16.21	6.78	48	18900			0.8	1.92	11.7									
WWC-2	16.38	7.64	-110	1740			1	2.87	1.12									
WWC-3	15.49	8.16	-207	1220			1.3	0.45	0.781									
WWC-4	16.11	7.17	-77	4980			1.2	0.46	3.19									
WWC-5	15.42	6.94	-31	7180			1.3	0.53	4.52									

Round 9 Assessment Monitoring - March 26-30, 2018																									Round 9							
Landfill Wells	Results																							Landfill Wells	Field Results							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined		Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS	
CL-U-1	< 0.500	62.6	402	0.971	7.66	94.9	1090	<0.00200	0.0283	0.0758	<0.00200	<0.000500	0.000529	<0.00400	<0.00200	0.209	<0.000150	0.00359	<0.00200	<0.00200	0.18	0.81	0.99	CL-U-1	14.91	7.28	-193	1940	0.6	0.54	1.24	
CL-U-2	< 0.500	64.1	352	0.895	7.65	92.7	980	<0.00200	0.0236	0.0873	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.194	<0.000150	0.00376	<0.00200	<0.00200	0.34	0.16	0.5	CL-U-2	14.84	7.24	-174	1890	0.2	0.67	1.21	
CLW-1	< 0.500	37.8	318	1.02	7.67	59.5	720	<0.00200	0.0265	0.053	<0.00200	<0.000500	0.0271	<0.00400	<0.00200	0.179	<0.000150	0.0068	<0.00200	<0.00200	0.09	0.53	0.62	CLW-1	16.76	7.7	-186	1530	0.2	0.7	0.98	
CLW-2	< 0.500	51.4	421	1.13	7.8	79.4	1020	<0.00200	0.0258	0.0711	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.212	<0.000150	0.00439	<0.00200	<0.00200	0.24	0.94	1.18	CLW-2	15.47	7.6	-204	1880	0.4	0.96	1.22	
CLW-3	< 0.500	42.8	334	1.23	7.86	82.3	956	<0.00200	0.0364	0.089	<0.00200	<0.000500	0.000505	<0.00400	<0.00200	0.2	<0.000150	0.00464	<0.00200	<0.00200	0.37	0.94	1.31	CLW-3	16.64	7.49	-236	1720	0	1.61	1.1	
CLW-4	< 0.500	35.8	301	1.35	7.77	70.4	864	<0.00200	0.0352	0.0788	<0.00200	<0.000500	0.000762	<0.00400	<0.00200	0.189	<0.000150	0.00477	<0.00200	<0.00200	0.46	0.59	1.05	CLW-4	16.15	7.51	-259	1610	0	2.2	1.03	
CLW-5	< 0.500	37.4	354	1.71	7.66	79.9	876	<0.00200	0.021	0.0671	<0.00200	<0.000500	0.000712	<0.00400	<0.00200	0.194	<0.000150	0.0054	<0.00200	<0.00200	0.15	0.96	1.11	CLW-5	16.46	7.43	-239	1720	3	1	1.1	
CLW-6	< 0.500	34.2	292	1.62	7.74	60.4	916	<0.00200	0.0104	0.0885	<0.00200	<0.000500	0.000612	<0.00400	<0.00200	0.182	<0.000150	0.00729	<0.00200	<0.00200	0.56	0.48	1.04	CLW-6	15.56	7.47	-250	1600	0.1	3.61	1.03	
CLW-7	< 0.500	47	316	0.972	7.59	51.3	792	<0.00200	0.0215	0.0475	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.183	<0.000150	0.00341	<0.00200	<0.00200	0.28	0.22	0.5	CLW-7	18.88	7.52	-123	1570	0	1.89	1.1	
CLW-8	< 0.500	44.1	303	0.981	7.63	54.2	792	<0.00200	0.0231	0.0609	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.188	<0.000150	0.00376	<0.00200	<0.00200	0.25	0.8	1.05	CLW-8	18.47	7.58	-129	1520	0	0.45	0.973	
Bottom Ash	Results																							Bottom Ash	Field Results							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined		Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS	
BA-U-1	< 0.500	33.5	296	1.64	8.05	50.7	872	<0.00200	0.0276	0.0837	<0.00200	<0.000500	0.00126	<0.00400	<0.00200	0.199	<0.000150	0.00914	0.0022	<0.00200	0.07	0.31	0.38	BA-U-1	15.13	7.78	-33	1600	0.6	3.82	1.02	
BA-U-2	< 0.500	46.2	399	0.943	8.2	46.9	1080	<0.00200	0.0227	0.125	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.209	<0.000150	0.00311	0.000691	<0.00200	0.12	0.34	0.46	BA-U-2	16.14	8.65	-281	1750	0.2	0.25	1.12	
BAC-1	3.88	192	1890	0.507	7.63	1470	6120	0.00138	0.0127	0.0501	<0.00200	<0.000500	0.00451	<0.00400	<0.00200	0.581	<0.000150	0.028	0.00924	<0.00200	0.31	0.48	0.79	BAC-1	16.99	7.23	-189	9190	8.1	0.52	5.79	
BAC-2	9.89	283	1940	1.32	7.72	3070	8590	<0.00200	0.0508	0.0238	<0.00200	<0.000500	0.00777	<0.00400	<0.00200	0.524	<0.000150	0.142	0.0173	<0.00200	0.29	0.89	1.18	BAC-2	15.94	6.82	-77	12000	1.2	0.51	7.44	
BAC-3	7.91	417	3480	1.62	7.84	4460	13000	<0.00200	0.0441	0.0331	<0.00200	<0.000500	0.00468	<0.00400	<0.00200	1.05	<0.000150	0.0396	0.0228	<0.00200	0.28	1.25	1.53	BAC-3	15.37	7.03	-82	18900	5	3.65	11.7	
BAC-4	< 0.500	67.4	489	1.14	7.74	221	1300	<0.00200	0.0316	0.0605	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.249	<0.000150	0.0143	<0.00200	<0.00200	0.1	0.81	0.91	BAC-4	15.79	7.47	-150	2500	0.5	0.7	1.6	
BAC-5	< 0.500	74.8	524	1.07	7.68	234	1480	<0.00200	0.0275	0.0706	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.284	<0.000150	0.00915	<0.00200	<0.00200	0.24	0.5	0.74	BAC-5	18.41	7.47	-149	2570	0.5	3.97	1.63	
BAC-6	4.58	145	595	1.15	7.48	1100	2600	<0.00200	0.0214	0.0227	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.28	<0.000150	0.0898	0.00249	<0.00200	0.08	0.72	0.8	BAC-6	19.15	7.32	-92	3810	0.5	0.55	2440	
BAC-7	4.51	137	1980	0.388	7.57	1100	2730	<0.00200	0.0235	0.0195	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.288	<0.000150	0.0752	0.0048	<0.00200	0.14	0.71	0.85	BAC-7	19.26	7.4	-101	4190	3	3.14	2.68	
Waste Water	Results																							Waste Water	Field Results							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined		Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS	
SI-U-1	< 0.500	129	739	0.506	7.5	201	1840	<0.00200	0.00929	0.0741	<0.00200	<0.000500	0.00137	<0.00400	<0.00200	0.241	<0.000150	0.00227	<0.00200	<0.00200	0.04	0.73	0.77	SI-U-1	16.11	7.56	-31	3240	0	0.71	2.07	
WW-U-1	1.34	339	1900	0.406	7.05	1050	5280	<0.00200	0.005	0.0486	<0.00200	<0.000500	0.00193	<0.00400	<0.00200	0.436	<0.000150	0.00702	0.00653	<0.00200	0.45	0.91	1.36	WW-U-1	16.35	7.11	-75	8010	0.7	0.4	5.03	
WW-U-2	1.47	370	2010	0.532	7.16	925	5260	<0.00200	0.00642	0.0499	<0.00200	<0.000500	0.00144	<0.00400	<0.00200	0.475	<0.000150	0.00467	0.0115	<0.00200	0.34	0.94	1.28	WW-U-2	16.11	7.27	-10	8450	0.2	0.47	5.32	
WWC-1	11.9	638	4100	0.236	6.89	2640	12700	<0.00200	0.02	0.0209	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.805	0.000205	0.00596	0.015	<0.00200	0.25	1.21	1.46	WWC-1	16.03	6.65	-17	19900	0	2.51	12.4	
WWC-2	< 0.500	57.2	308	0.41	7.62	111	784	<0.00200	0.014	0.031	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.104	<0.000150	0.00356	<0.00200	<0.00200	0.1	0.55	0.65	WWC-2	15.75	7.52	-124	1650	0.4	0.55	1.05	
WWC-3	< 0.500	28.9	200	0.985	7.96	67.8	628	<0.00200	0.0214	0.0245	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.131	<0.000150	0.00464	<0.00200	<0.00200	0.07	0.27	0.34	WWC-3	14.89	7.81	-190	1250	1.1	0.79	0.8	
WWC-4	1.19	200	1010	0.365	7.3	593	2790	<0.00200	0.0128	0.0463	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.355	<0.000150	<0.00200	<0.00200	<0.00200	0.22	0.58	0.8	WWC-4	16.17	7.26	-64	4600	2.3	0.37	2.92	
WWC-5	2.86	321	1600	0.384	6.92	1450	5030	<0.00200	0.0096	0.0302	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.511	<0.000150	0.00301	0.00415	<0.00200	0.2	1.64	1.84	WWC-5	17.27	7.02	-36	7300	0	0.34	4.4	

Round 10 Assessment Monitoring - June 4-13, 2018																									
Landfill Wells	Results																								
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined		
CL-U-1	< 0.500	54.7	372	0.853	7.7	98	984	<0.00200	0.0272	0.0799	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.208	<0.000150	0.00361	<0.00200	<0.00200	0.18	0.67	0.85		
CL-U-2	< 0.500	56.4	365	0.862	7.64	108	952	<0.00200	0.0242	0.09	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.195	<0.000150	0.0038	<0.00200	<0.00200	-0.02	0.67	0.65		
CLW-1	< 0.500	35.2	298	1.02	7.93	57.8	748	<0.00200	0.0285	0.0568	<0.00200	<0.000500	0.00102	<0.00400	<0.00200	0.184	<0.000150	0.00388	0.000928	<0.00200	0.29	1.01	1.3		
CLW-2	< 0.500	44.6	399	1.14	7.79	86.8	980	<0.00200	0.0247	0.072	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.222	<0.000150	0.00433	<0.00200	<0.00200	0.25	0.96	1.21		
CLW-3	< 0.500	37.5	323	1.16	7.91	94.2	876	<0.00200	0.0382	0.0948	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.214	<0.000150	0.00483	<0.00200	<0.00200	0.18	0.55	0.73		
CLW-4	< 0.500	31.8	289	1.35	7.91	76.4	836	<0.00200	0.0358	0.0801	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.204	<0.000150	0.00459	<0.00200	<0.00200	0.13	0.85	0.85		
CLW-5	< 0.500	33.1	318	1.59	7.79	75.3	804	<0.00200	0.0215	0.0689	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.21	<0.000150	0.00519	<0.00200	<0.00200	0.11	0.76	0.87		
CLW-6	< 0.500	29.9	292	1.45	7.88	66.3	796	<0.00200	0.0109	0.0902	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.199	<0.000150	0.00711	<0.00200	<0.00200	0.27	0.85	1.12		
CLW-7	< 0.500	40.6	321	0.945	7.68	58.6	900	<0.00200	0.0234	0.0514	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.186	<0.000150	0.00329	<0.00200	<0.00200	0.16	0.97	0.97		
CLW-8	< 0.500	38.8	314	0.933	7.73	63.5	768	<0.00200	0.0244	0.0632	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.188	<0.000150	0.00359	<0.00200	<0.00200	0.18	1.26	1.26		
Bottom Ash	Results																								
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined		
BA-U-1	< 0.500	140	799	0.818	7.54	254	1970	<0.00200	0.0199	0.0636	<0.00200	<0.000500	0.000506	<0.00400	<0.00200	0.337	<0.000150	0.00279	0.00324	<0.00200	0.39	1.94	2.33		
BA-U-2	< 0.500	70.1	578	0.73	7.68	63.5	1330	<0.00200	0.0208	0.145	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.279	<0.000150	0.00215	0.00201	<0.00200	0.16	1.13	1.13		
BAC-1	2.16	113	1190	0.315	7.92	971	3120	0.00158	0.0141	0.0393	<0.00200	<0.000500	0.00714	<0.00400	<0.00200	0.314	<0.000150	0.0288	0.00694	<0.00200	0.24	1.06	1.3		
BAC-2	8.44	263	2210	0.684	7.1	3430	7720	<0.00200	0.0445	0.021	<0.00200	<0.000500	0.00483	<0.00400	<0.00200	0.463	<0.000150	0.143	0.0154	<0.00200	0.12	1.03	1.03		
BAC-3	7.26	347	3870	1.52	7.42	5080	12700	<0.00200	0.0588	0.0327	<0.00200	<0.000500	0.00511	<0.00400	<0.00200	0.944	<0.000150	0.0467	0.0229	<0.00200	0.27	1.44	1.71		
BAC-4	< 0.500	62.8	510	1.01	7.95	221	1290	<0.00200	0.0322	0.0672	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.247	<0.000150	0.0165	<0.00200	<0.00200	0.06	0.92	0.98		
BAC-5	< 0.500	73.5	591	0.916	7.82	302	1180	<0.00200	0.0292	0.0763	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.288	<0.000150	0.0128	<0.00200	<0.00200	0.19	1.56	1.75		
BAC-6	4.12	134	694	0.582	7.65	1120	2980	<0.00200	0.0217	0.0235	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.25	<0.000150	0.0938	0.00229	<0.00200	0.14	1.02	1.02		
BAC-7	4.36	130	709	1.09	7.74	1280	2760	<0.00200	0.0275	0.0204	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.269	<0.000150	0.0757	0.00541	<0.00200	0.06	0.87	0.93		
Waste Water	Results																								
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined		
SI-U-1	< 0.500	123	873	0.499	7.62	209	2040	<0.00200	0.00839	0.0653	<0.00200	<0.000500	0.000602	<0.00400	<0.00200	0.254	<0.000150	0.00182	<0.00200	<0.00200	0.32	1.34	1.66		
WW-U-1	1.19	289	1940	0.265	7.17	1140	5450	<0.00200	0.00477	0.0479	<0.00200	<0.000500	0.00124	<0.00400	<0.00200	0.443	<0.000150	0.00591	0.00663	<0.00200	0.23	1.49	1.72		
WW-U-2	1.23	337	2130	1.01	7.3	985	5120	<0.00200	0.0102	0.0459	<0.00200	<0.000500	0.00137	<0.00400	<0.00200	0.508	<0.000150	0.00277	0.0112	<0.00200	0.05	0.93	0.93		
WWC-1	8.22	504	4710	0.114	7.2	2730	11100	<0.00200	0.0173	0.0268	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.831	0.000168	0.00896	0.0139	<0.00200	0.25	1.16	1.16		
WWC-2	< 0.500	50	340	0.358	7.91	119	852	<0.00200	0.0143	0.0338	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.11	<0.000150	0.00372	<0.00200	<0.00200	0.08	0.27	0.35		
WWC-3	< 0.500	27.3	230	0.897	8.05	88.4	644	<0.00200	0.0226	0.0278	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.125	<0.000150	0.00527	<0.00200	<0.00200	-0.03	0.15	0.12		
WWC-4	0.998	184	1080	0.435	7.43	620	2640	<0.00200	0.0129	0.0495	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.309	<0.000150	0.00215	0.00201	<0.00200	0.28	0.35	0.63		
WWC-5	2.64	314	1820	0.219	7.26	1660	5200	<0.00200	0.0104	0.0327	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.472	<0.000150	0.00324	0.00395	<0.00200	0.1	1.58	1.58		

Round 10							
Landfill Wells	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
CL-U-1	17.54	7.56	-196	1888	1.7	0.39	1.2
CL-U-2	17.81	7.55	-171	1830	0.7	2.53	1.17
CLW-1	19.97	7.67	-159	1480	2.1	4.08	9.45
CLW-2	17.54	7.63	-220	1830	4.5	0.63	1.18
CLW-3	17.95	7.73	-260	1680	5.5	1.57	1.07
CLW-4	17.85	7.73	-278	1570	2.8	1.64	1
CLW-5	17.16	7.72	-276	1660	8.2	1.29	1.07
CLW-6	17.86	7.83	-280	1570	8	2.56	1.01
CLW-7	17.32	7.6	-150	1610	15.7	3.84	1.03
CLW-8	17.1	7.61	-194	1550	2	0.73	0.985

Bottom Ash	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
BA-U-1	19.26	7.41	-163	3640	1	0.46	2.33
BA-U-2	18.16	7.63	-187	2370	2.1	1.31	1.51
BAC-1	17.87	8.86	-418	6480	53.2	2.95	4.04
BAC-2	16.94	6.98	-63	12400	2.3	4.29	7.68
BAC-3	17.19	7.16	-356	18300	15.2	0.87	11.4
BAC-4	17.11	7.64	-149	2500	1.5	0.75	1.6
BAC-5	17.63	7.61	-126	2850	1.2	0.65	1.83
BAC-6	17.58	7.51	-112	4210	0	0.51	2.63
BAC-7	17.32	7.6	-127	4440	0	0.56	2.84

Waste Water	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
SI-U-1	18.38	7.39	-108	3510	1.7	0.79	2.25
WW-U-1	21.81	6.92	-77	8180	0.1	0.51	5.14
WW-U-2	18.76	7.09	-16	8130	7.6	1.06	5.12
WWC-1	16.92	6.94	-84	15600	1.5	4.48	9.65
WWC-2	17.4	7.75	-163	1570	1.2	0.4	1
WWC-3	17.01	7.89	-191	1220	2.6	0.42	0.782
WWC-4	18.39	7.27	-106	4320	2.4	1.17	2.77
WWC-5	15.81	6.98	-84	7740	0.8	0.58	4.88

Round 11 (all results ppm) Assessment Monitoring - October 8-18, 2018

Landfill Wells	Results																						
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined
CL-U-1	< 0.500	61.9	415	0.981	7.79	122	1060	<0.00200	0.029	0.0796	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.229	<0.000150	0.00383	<0.00200	<0.00200	0.09	0.32	0.41
CL-U-2	< 0.500	67.5	414	0.995	7.73	128	1010	<0.00200	0.0255	0.0919	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.212	<0.000150	0.00408	<0.00200	<0.00200	0.12	0.94	0.94
CLW-1	< 0.500	39.6	288	1.06	7.76	61.9	784	<0.00200	0.0298	0.0582	<0.00200	<0.000500	0.0157	<0.00400	<0.00200	0.194	<0.000150	0.00589	<0.00200	<0.00200	0.11	1.2	1.2
CLW-2	< 0.500	49.7	475	1.19	7.72	88.1	904	<0.00200	0.0244	0.0716	<0.00200	<0.000500	0.014	<0.00400	<0.00200	0.227	<0.000150	0.00593	<0.00200	<0.00200	0.17	0.39	0.56
CLW-3	< 0.500	42	325	1.27	7.79	95	888	<0.00200	0.0384	0.0941	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.217	<0.000150	0.0052	<0.00200	<0.00200	0.33	0.68	1.01
CLW-4	< 0.500	35.2	297	1.45	7.85	80.7	792	<0.00200	0.0375	0.0786	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.211	<0.000150	0.00525	<0.00200	<0.00200	1.89	0.65	1.89
CLW-5	< 0.500	36.9	320	1.7	7.72	85.3	852	<0.00200	0.0229	0.0714	<0.00200	<0.000500	0.00999	<0.00400	<0.00200	0.213	<0.000150	0.00679	<0.00200	<0.00200	1.87	0.17	1.87
CLW-6	< 0.500	33.8	292	1.6	7.82	73.3	804	<0.00200	0.0152	0.0873	<0.00200	<0.000500	0.0116	<0.00400	<0.00200	0.204	<0.000150	0.00746	<0.00200	<0.00200	0.18	0.41	0.59
CLW-7	< 0.500	46.5	399	1.02	7.65	73.2	780	<0.00200	0.0232	0.0491	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.19	<0.000150	0.00416	<0.00200	<0.00200	0.05	0.07	0.12
CLW-8	< 0.500	43	300	1.04	7.71	66.5	796	<0.00200	0.0254	0.0643	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.192	<0.000150	0.00503	<0.00200	<0.00200	0.19	1.2	1.2

Bottom Ash	Results																						
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined
BA-U-1	< 0.500	73.9	561	0.881	7.97	62.2	1050	<0.00200	0.0216	0.149	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.276	<0.000150	0.00237	<0.00200	<0.00200	0.44	0.74	1.18
BA-U-2	< 0.500	143	885	0.977	7.58	298	1750	<0.00200	0.0209	0.0728	<0.00200	<0.000500	0.0125	<0.00400	<0.00200	0.321	<0.000150	0.00574	<0.00200	<0.00200	0.22	0.62	0.84
BAC-1	4.87	225	1840	0.582	7.57	1760	6420	<0.00200	0.0129	0.0391	<0.00200	<0.000500	0.0184	<0.00400	<0.00200	0.629	<0.000150	0.0232	0.00818	<0.00200	0.45	0.88	1.33
BAC-2	9.98	255	1660	1.1	7.35	2730	7800	<0.00200	0.0565	0.0204	<0.00200	<0.000500	0.0111	<0.00400	<0.00200	0.472	<0.000150	0.156	0.0157	<0.00200	0.08	0.96	0.96
BAC-3	8.33	469	3280	1.63	7.31	4450	12300	<0.00200	0.0496	0.0317	<0.00200	<0.000500	0.00968	<0.00400	<0.00200	1.06	<0.000150	0.038	0.022	<0.00200	0.39	1.06	1.45
BAC-4	0.523	68.1	501	1.15	7.96	273	1300	<0.00200	0.00882	0.0171	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.267	<0.000150	0.017	<0.00200	<0.00200	-0.16	0.48	0.32
BAC-5	< 0.500	82.2	557	1.04	7.86	353	1460	<0.00200	0.0325	0.0714	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.323	<0.000150	0.0134	<0.00200	<0.00200	0.26	0.81	1.07
BAC-6	4.57	138	624	0.847	7.75	1080	2340	<0.00200	0.0248	0.0245	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.276	<0.000150	0.0842	<0.00200	<0.00200	0.17	1.02	1.19
BAC-7	4.24	143	649	1.51	7.75	1210	2830	<0.00200	0.0434	0.0214	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.303	<0.000150	0.075	0.00579	<0.00200	0.19	0.71	0.9

Waste Water	Results																						
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined
SI-U-1	< 0.500	139	805	0.533	7.63	394	1760	<0.00200	0.0103	0.0575	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.265	<0.000150	0.00241	<0.00200	<0.00200	0.07	0.85	0.85
WW-U-1	1.36	357	2150	0.41	7.28	1360	5090	<0.00200	<0.00200	0.0449	<0.00200	<0.000500	0.0258	<0.00400	<0.00200	0.456	<0.000150	0.0101	0.00682	<0.00200	0.43	1.2	1.63
WW-U-2	1.23	380	2160	0.604	7.31	1090	4570	<0.00200	0.0109	0.0446	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.519	<0.000150	0.00338	0.0105	<0.00200	0.14	0.83	0.83
WWC-1	12	607	4430	0.331	7.25	3210	13000	<0.00200	0.0243	0.0223	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.964	0.000312	0.00835	0.0145	<0.00200	0.15	1.2	1.35
WWC-2	< 0.500	59.5	344	0.448	7.85	139	832	<0.00200	0.0152	0.0344	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.124	<0.000150	0.00304	<0.00200	<0.00200	0.17	0.03	0.2
WWC-3	< 0.500	29.7	209	1.06	7.92	84.2	436	<0.00200	0.0247	0.0289	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.139	<0.000150	0.00482	<0.00200	<0.00200	0	0.76	0.76
WWC-4	1.34	219	1030	0.481	7.46	692	2880	<0.00200	0.0145	0.0507	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.36	<0.000150	<0.00200	<0.00200	<0.00200	0.03	0.8	0.83
WWC-5	3.07	364	1720	0.431	7.38	1620	5000	<0.00200	0.0131	0.034	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.523	<0.000150	0.0031	0.00478	<0.00200	0.2	-0.56	-0.36

Round 11

Landfill Wells	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
CL-U-1	17.4	7.85	-132	1800	40.9	0.61	1.15
CL-U-2	18.15	7.83	-97	1770	0	3.95	1.13
CLW-1	17.83	7.93	-114	1490	0	1.48	0.951
CLW-2	16.04	7.84	-184	1850	0.6	2.72	1.18
CLW-3	17.52	7.98	-178	1660	3.6	3.1	1.06
CLW-4	18.53	8.02	-192	1530	7.2	1.63	0.983
CLW-5	21	7.94	-175	1640	0	1.29	1.05
CLW-6	16.49	8.02	-210	1560	0	2.23	1
CLW-7	17.12	7.83	-81	1560	2.4	2.97	1
CLW-8	17.05	7.91	-130	1510	0	1.37	0.963

Bottom Ash	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
BA-U-1	16.4	7.71	-41	3010	0	0.7	1.94
BA-U-2	18.72	8.31	-138	2010	0	0.56	1.28
BAC-1	16.12	7.43	-228	9840	77.8	0.85	6.2
BAC-2	16.79	7.15	-22	11200	2.5	1.3	6.93
BAC-3	16.79	7.31	42	18300	7	5.15	11.3
BAC-4	15.08	7.77	-69	2500	0.2	0.61	1.6
BAC-5	16.95	7.88	-43	2860	0	0.52	1.83
BAC-6	17.13	7.74	-35	3970	0	0.49	2.54
BAC-7	17	7.76	-71	4420	1.9	0.48	2.84

Waste Water	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
SI-U-1	17.1	7.65	-6	3290	0	0.58	2.11
WW-U-1	16.29	7.25	-7	8350	0.6	0.87	5.27
WW-U-2	16.41	7.44	55	7730	0	1.5	4.87
WWC-1	16.6	7.11	40	19600	0	4.49	12.1
WWC-2	17.73	7.91	-84	1600	2.1	0.62	1.03
WWC-3	16.97	8.12	-179	1190	0.2	0.56	0.759
WWC-4	16.27	7.4	-32	4780	0.7	0.54	3.06
WWC-5	15.76	7.16	-11	7580	1	3.51	4.77

Round 12 (all results ppm) Assessment Monitoring - April 4 - May 15, 2019																								
Landfill Wells	Results																							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined	
CL-U-1	< 0.500	61.1	388	0.989	7.74	112	932	<0.00200	0.0279	0.0841	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.231	<0.000150	0.0036	<0.00200	<0.00200	0.13	0.4	0.53	
CL-U-2	< 0.500	68.4	378	1.02	7.74	97.6	920	<0.00200	0.0254	0.0943	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.214	<0.000150	0.00405	<0.00200	<0.00200	0.31	0.94	1.25	
CLW-1	< 0.500	39.4	303	1.12	7.88	64.5	692	<0.00200	0.002	0.0589	<0.00200	<0.000500	0.00742	<0.00400	<0.00200	0.203	<0.000150	0.00481	<0.00200	<0.00200	0	0.41	0.41	
CLW-2	< 0.500	55.1	416	1.25	7.8	96.4	976	<0.00200	0.0259	0.0743	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.253	<0.000150	0.00423	<0.00200	<0.00200	0.21	0.75	0.96	
CLW-3	< 0.500	44.5	351	1.34	7.83	98.4	884	<0.00200	0.0382	0.0970	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.243	<0.000150	0.00488	<0.00200	<0.00200	0.16	0.49	0.65	
CLW-4	< 0.500	38.8	321	1.45	7.90	85.5	968	<0.00200	0.0376	0.0819	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.232	<0.000150	0.00425	<0.00200	<0.00200	0.47	0.54	1.01	
CLW-5	< 0.500	38.5	340	1.85	7.93	85.6	936	<0.00200	0.0236	0.0707	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.226	<0.000150	0.00515	<0.00200	<0.00200	0.14	0.28	0.42	
CLW-6	< 0.500	38.4	270	1.55	7.89	72.8	828	<0.00200	0.0271	0.0896	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.214	<0.000150	0.00478	<0.00200	<0.00200	0.2	0.78	0.98	
CLW-7	< 0.500	51.3	336	1.07	7.76	68.9	792	<0.00200	0.0258	0.0511	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.205	<0.000150	0.00323	<0.00200	<0.00200	-0.09	0.54	0.45	
CLW-8	< 0.500	44.3	317	1.11	7.81	67.2	776	<0.00200	0.0257	0.0621	<0.00200	<0.000500	0.00200	<0.00400	<0.00200	0.212	<0.000150	0.00358	<0.00200	<0.00200	0.27	0.22	0.49	
CLW-9	< 0.500	26.2	298	2.02	7.91	86.4	760	<0.00200	0.0368	0.0462	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.168	<0.000150	0.00518	<0.00200	<0.00200	0.21	0.21	0.42	
CL-U-3	< 0.500	59.6	390	0.872	7.83	114	984	<0.00200	0.0183	0.0495	<0.00200	<0.000500	0.00565	<0.00400	<0.00200	0.212	<0.000150	0.00372	<0.00200	<0.00200	0	0.48	0.48	

Bottom Ash	Results																								Radium 226 and 228 combined		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228					
BA-U-1	< 0.500	174	934	0.919	7.61	271	2050	<0.00200	0.002	0.0776	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.354	<0.000150	0.00312	0.00458	<0.00200	0	0.4	0.4				
BA-U-2	< 0.500	91.8	718	0.844	7.68	102	1350	<0.00200	0.0211	0.1670	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.300	<0.000150	0.00222	0.00234	<0.00200	0.18	0.62	0.8				
BAC-1	1.31	72.4	431	0.197	8.42	404	1830	<0.00200	0.0121	0.0567	<0.00200	<0.000500	0.00359	<0.00400	<0.00200	0.172	<0.000150	0.142	0.00278	<0.00200	0.28	0.09	0.37				
BAC-2	10.3	233	1700	1.11	7.2	2590	8310	<0.00200	0.0519	0.0180	<0.00200	<0.000500	0.00556	<0.00400	<0.00200	0.491	<0.000150	0.163	0.0145	<0.00200	0.17	0.48	0.65				
BAC-3	8.64	417	3400	1.3	7.24	4090	12900	<0.00200	0.0472	0.0272	<0.00200	<0.000500	0.00593	<0.00400	<0.00200	1.030	0.000105	0.0388	0.0206	<0.00200	0.17	0.77	0.94				
BAC-4	0.553	72.4	488	1.22	7.76	269	1270	<0.00200	0.0319	0.0641	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.281	<0.000150	0.0196	<0.00200	<0.00200	0.16	0.58	0.74				
BAC-5	< 0.500	91.8	585	1.07	7.73	393	1540	<0.00200	0.0294	0.0594	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.334	<0.000150	0.0168	<0.00200	<0.00200	-0.1	0.27	0.17				
BAC-6	4.4	137	536	0.866	7.84	963	2260	<0.00200	0.0248	0.0206	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.283	<0.000150	0.0923	<0.00200	<0.00200	-0.09	-0.38	-0.47				
BAC-7	5.17	142	529	1.34	7.72	985	2760	<0.00200	0.0298	0.0184	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.284	<0.000150	0.0908	0.00388	<0.00200	0.09	0.34	0.43				
BAC-8	< 0.500	27.8	266	1.61	7.92	81.1	708	<0.00200	0.0519	0.0732	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.165	<0.000150	0.0055	<0.00200	<0.00200	0.31	0.41	0.72				
BAC-9	< 0.500	28.4	283	1.7	7.91	82.6	736	<0.00200	0.583	0.051	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.167	<0.000150	0.00451	<0.00200	<0.00200	0.06	0.53	0.59				
BAC-10	< 0.500	31.1	273	1.66	7.91	85	788	<0.00200	0.0527	0.0612	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.171	<0.000150	0.00567	<0.00200	<0.00200	0.15	0.5	0.65				
Waste Water	Results																								Radium 226 and 228 combined		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228					
SI-U-1	< 0.500	147	744	0.519	7.59	263	1840	<0.00200	0.00927	0.0634	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.271	<0.000150	0.00206	<0.00200	<0.00200	0.27	0.59	0.86				
WW-U-1	1.39	323	1820	0.416	7.27	1140	5120	<0.00200	0.00592	0.0442	<0.00200	<0.000500	0.00432	<0.00400	<0.00200	0.431	<0.000150	0.00702	0.00748	<0.00200	0.38	0.89	1.27				
WW-U-2	1.16	347	1170	0.633	7.45	872	4270	<0.00200	0.0114	0.0473	<0.00200	<0.000500	0.00237	<0.00400	<0.00200	0.484	<0.000150	0.00411	0.0113	<0.00200	0.19	0.54	0.73				
WWC-1	12.9	584	4600	0.245	7.1	3190	13800	<0.00200	0.0215	0.0183	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	1.000	0.00018	0.00794	0.0146	<0.00200	0.13	0.82	0.95				
WWC-2	< 0.500	54.2	316	0.534	7.75	128	824	<0.00200	0.0161	0.0296	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.128	<0.000150	0.00348	<0.00200	<0.00200	-0.06	0.5	0.44				
WWC-3	< 0.500	35.3	244	1.14	7.79	86	764	<0.00200	0.0226	0.0306	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.151	<0.000150	0.00471	<0.00200	<0.00200	0.06	0.38	0.44				
WWC-4	1.34	240	1030	0.449	7.97	673	2780	<0.00200	0.0133	0.0412	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.388	<0.000150	<0.00200	<0.00200	<0.00200	-0.03	0.56	0.53				
WWC-5	3	388	1600	0.493	7.12	1440	5160	<0.00200	0.0134	0.0309	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.557	<0.000150	0.00203	0.00448	<0.00200	0.18	1.12	1.12				
WWC-6	0.535	137	943	0.25	7.54	451	2470	<0.00200	0.0133	0.0822	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.204	<0.000150	0.00484	<0.00200	<0.00200	0.48	0.81	1.29				
WWC-7	< 0.500	42.8	187	0.422	7.93	119	640	<0.00200	0.0165	0.0314	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	<0.100	<0.000150	0.00386	<0.00200	<0.00200	0.16	0.18	0.34				
WWC-8	0.561	151	943	0.391	7.54	537	440	<0.00200	0.0081	0.173	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.23	<0.000150	0.00632	0.00274	<0.00200	0.29	0.68	0.97				
WWC-9	< 0.500	42.6	212	1.11	8.01	78.2	560	<0.00200	0.0261	0.0973	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.147	<0.000150	0.00538	<0.00200	<0.00200	0.16	0.27	0.43				
WWC-10	< 0.500	52.3	328	0.651	7.85	141	1070	<0.00200	0.0265	0.0615	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.115	<0.000150	0.00854	<0.00200	<0.00200	0.13	0.49	0.62				

Date	Oct. 2018
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Round 12							
Landfill Wells	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
CL-U-1	15.92	7.84	-138	1880	1.6	0.42	1.2
CL-U-2	15.68	7.81	-119	1820	4.7	0.6	1.17
CLW-1	15.59	7.68	-68	1540	0.9	2.06	0.984
CLW-2	15.77	7.86	-187	1870	1.7	1.5	1.2
CLW-3	15.45	7.93	-201	1720	2.1	1.37	1.1
CLW-4	15.51	7.97	-203	1610	12.7	1.55	1.03
CLW-5	15.07	7.94	-214	1.69	3.8	3.03	1.08
CLW-6	16.62	8.04	-225	1570	1.1	1.54	1
CLW-7	16.75	7.76	-79	1630	0.5	0.91	1.05
CLW-8	16.41	7.82	-99	1570	0.07	1.7	1.01
CLW-9	15.39	7.98	-184	1550	3.6	0.83	0.993
CL-U-3	15.07	7.55	-197	1830	0.3	2.51	1.17

Bottom Ash	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
BA-U-1	18.39	7.67	-60	3720	1.1	0.31	2.38
BA-U-2	16.57	7.81	-97	2710	2	0.38	1.74
BAC-1	19.56	8.75	-282	1340	22.8	1.17	0.852
BAC-2	18.83	7.25	-39	5370	2.2	1.1	3.38
BAC-3	17.57	7.34	-11	8.95	1.1	1.61	5.64
BAC-4	15.14	7.6	-57	2600	0	1.94	1.66
BAC-5	15.26	7.68	-62	2960	0	2.03	1.9
BAC-6	15.21	7.63	-44	3880	0	1.48	2.48
BAC-7	15.95	7.74	-71	4210	0	1.37	2.7
BAC-8	17.34	7.98	-91	1490	3.9	1.21	0.954
BAC-9	16.49	8.02	-69	1460	1.6	0.96	0.937
BAC-10	17.35	8	-80	1500	2.9	0.94	0.963
Waste Water	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
SI-U-1	16.23	7.68	-37	3470	1.9	0.36	2.22
WW-U-1	16.64	7.24	-17	8020	0	0.41	5.05
WW-U-2	17.11	7.41	-8	7650	1.1	0.51	4.82
WWC-1	16.68	7.13	2	9830	0	1.37	6.19
WWC-2	15.94	8.03	-95	1550	2.9	1.56	0.989
WWC-3	16.07	8.01	-144	1310	0	2.09	0.841
WWC-4	15.29	7.38	-19	4910	0	1.4	3.14
WWC-5	15.41	7.16	-6	7900	0.5	1.67	4.98
WWC-6	15.12	7.59	-62	4040	1.6	0.72	2.59
WWC-7	14.7	8.01	-200	1120	7.6	2.26	0.718
WWC-8	17.02	7.76	-113	3990	22.2	1.66	2.55
WWC-9	16.66	7.89	-91	1.53	13	1.32	0.985
WWC-10	15.91	8.12	-152	1700	9.8	1.42	1.09

Round 13 (all results ppm) Assessment Monitoring - September 23 - October 15, 2019

Landfill Wells	Results																						
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined
CL-U-1	< 0.500	58.9	432	0.753	7.94	109	976	<0.00200	0.0289	0.0799	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.239	<0.000150	0.0035	<0.00200	<0.00200	0.03	0.75	0.75
CL-U-2	< 0.500	60.6	424	0.792	7.87	112	968	<0.00200	0.0251	0.0935	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.229	<0.000150	0.00412	<0.00200	<0.00200	0.03	0.57	0.6
CLW-1	< 0.500	36	328	1.11	8.03	69.1	852	<0.00200	0.0295	0.0612	<0.00200	<0.000500	0.00742	<0.00400	<0.00200	0.187	<0.000150	0.00357	<0.00200	<0.00200	0.29	0.38	0.67
CLW-2	< 0.500	50.8	438	1.13	8.15	88.1	924	<0.00200	0.0283	0.1510	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.253	<0.000150	0.0102	<0.00200	<0.00200	0.08	0.56	0.64
CLW-3	< 0.500	47	363	1.24	7.99	90.8	828	<0.00200	0.039	0.0976	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.242	<0.000150	0.00504	<0.00200	<0.00200	0.6	0.43	1.03
CLW-4	< 0.500	34.6	332	1.55	7.97	75.6	768	<0.00200	0.0387	0.0797	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.235	<0.000150	0.00441	<0.00200	<0.00200	0.22	1.06	1.06
CLW-5	< 0.500	37.5	351	1.89	8	76.9	1060	<0.00200	0.0231	0.0685	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.237	<0.000150	0.00479	<0.00200	<0.00200	0.25	0.44	0.69
CLW-6	< 0.500	34.5	330	1.7	7.98	74.4	1110	<0.00200	0.0145	0.0936	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.239	<0.000150	0.00607	<0.00200	<0.00200	0.42	1.05	1.47
CLW-7	< 0.500	43.7	362	1	7.89	71.4	796	<0.00200	0.0238	0.0523	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.192	<0.000150	0.00402	<0.00200	<0.00200	0.12	-0.03	0.09
CLW-8	< 0.500	39.9	337	1.04	7.98	70.7	836	<0.00200	0.0266	0.0521	<0.00200	<0.000500	0.00000	<0.00400	<0.00200	0.196	<0.000150	0.00449	<0.00200	<0.00200	-0.05	0.32	0.27
CLW-9	< 0.500	26.9	288	1.94	8.12	88.7	792	<0.00200	0.0398	0.0469	<0.00200	<0.000500	0.00287	<0.00400	<0.00200	0.181	<0.000150	0.00573	<0.00200	<0.00200	0.36	0.02	0.38
CL-U-3	< 0.500	64.6	304	0.429	8.85	168	596	<0.00200		0.0342	<0.00200	<0.000500	0.0738	<0.00400	<0.00200	0.152	<0.000150	0.00964	<0.00200	<0.00200	2.13	0.21	2.13

Bottom Ash	Results																						
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined
BA-U-1	< 0.500	173	1140	0.587	7.71	314	2290	<0.00200	0.0223	0.0770	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.385	<0.000150	0.00302	0.00502	<0.00200	0.16	0.73	0.73
BA-U-2	< 0.500	47.1	400	0.893	8.18	56.6	972	<0.00200	0.0283	0.1270	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.247	<0.000150	0.00332	<0.00200	<0.00200	0.26	0.7	0.96
BAC-1	1.43	93.7	801	0.307	8.16	701	2730	<0.00200	0.0126	0.0460	<0.00200	<0.000500	0.00163	<0.00400	<0.00200	0.259	<0.000150	0.128	0.00436	<0.00200	0	0.14	0.14
BAC-2	9.49	208	1730	1.07	7.45	2760	7240	<0.00200	0.0647	0.0192	<0.00200	<0.000500	0.0058	<0.00400	<0.00200	0.466	0.00028	0.19	0.0145	<0.00200	0.12	0.39	0.51
BAC-3	7.32	441	3500	0.675	7.49	4310	13900	0.0027	0.0356	0.0321	<0.00200	<0.000500	0.00449	<0.00400	<0.00200	0.957	<0.000150	0.0255	0.0236	<0.00200	0	0.45	0.45
BAC-4	0.606	66.7	573	1.13	7.95	330	1820	<0.00200	0.0322	0.0637	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.279	<0.000150	0.0218	<0.00200	<0.00200	0.15	0.16	0.31
BAC-5	< 0.500	66.2	568	1.11	8.07	250	1410	<0.00200	0.0321	0.0814	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.289	<0.000150	0.00941	<0.00200	<0.00200	0.25	0.36	0.61
BAC-6	2.66	119	625	0.796	7.86	646	1870	<0.00200	0.0223	0.0338	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.288	<0.000150	0.0651	0.00273	<0.00200	0.31	0.83	1.14
BAC-7	5.06	107	566	1.31	7.96	1170	2320	<0.00200	0.0314	0.0174	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.248	<0.000150	0.0887	0.00276	<0.00200	0.04	0.22	0.26
BAC-8	< 0.500	23.2	280	1.53	8.05	95.5	784	<0.00200	0.0639	0.0389	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.156	<0.000150	0.00545	<0.00200	<0.00200	0.03	1.21	1.21
BAC-9	< 0.500	27.1	299	1.45	8.06	87.6	788	<0.00200	0.0593	0.0388	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.16	<0.000150	0.00483	<0.00200	<0.00200	0.09	0	0.53
BAC-10	< 0.500	25.7	280	1.51	8.09	87.4	808	<0.00200	0.0595	0.045	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.16	<0.000150	0.00584	<0.00200	<0.00200	0.8	1	1.8

Waste Water	Results																						
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined
SI-U-1	< 0.500	136	824	0.38	7.71	281	1850	<0.00200	0.00981	0.0599	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.277	<0.000150	<0.00200	<0.00200	<0.00200	0.19	1.61	1.61
WW-U-1	1.41	311	1010	<0.100	7.37	588	5720	<0.00200	0.00594	0.0419	<0.00200	<0.000500	0.00166	<0.00400	<0.00200	0.485	<0.000150	0.00689	0.0077	<0.00200	-0.08	1.42	1.42
WW-U-2	1.02	346	2020	<0.100	7.3	855	4400	<0.00200	0.00735	0.0499	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.54	<0.000150	0.00317	0.011	<0.00200	-0.2	1.36	1.36
WWC-1	13.2	473	4940	0.292	7.42	3570	14900	<0.00200	0.0264	0.0205	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.974	0.000278	0.0113	0.016	<0.00200	0.23	0.9	0.9
WWC-2	< 0.500	57.6	349	0.427	7.99	141	876	<0.00200	0.0166	0.0336	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.126	<0.000150	0.00327	<0.00200	<0.00200	-0.15	0.81	0.81
WWC-3	< 0.500	33.3	262	0.986	8.13	95.3	776	<0.00200	0.0236	0.0331	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.151	<0.000150	0.00477	<0.00200	<0.00200	3.1	0.58	3.1
WWC-4	1.06	176	968	0.453	7.61	594	3080	<0.00200	0.0154	0.0456	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.329	<0.000150	<0.00200	0.00177	<0.00200	0.72	0.57	1.29
WWC-5	2.11	344	1530	0.448	7.39	1290	4740	<0.00200	0.0154	0.0382	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.538	<0.000150	0.00256	0.00596	<0.00200	0.26	1.05	1.05
WWC-6	0.548	125	855	0.23	7.66	451	2340	<0.00200	0.0138	0.0852	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.204	<0.000150	0.00595	<0.00200	<0.00200	0.034	0.41	0.444
WWC-7	< 0.500	46.7	186	0.418	8.12	129	652	<0.00200	0.0187	0.0316	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	<0.100	<0.000150	0.00414	<0.00200	<0.00200	0.14	0.21	0.35
WWC-8	0.803	144	1230	0.353	7.7	579	3670	<0.00200	0.0145	0.0627	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.246	<0.000150	0.00284	0.00422	<0.00200	0.05	0.42	0.47
WWC-9	< 0.500	47.1	309	0.909	8.04	107	780	<0.00200	0.0309	0.0643	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.153	<0.000150	0.00351	<0.00200	<0.00200	0.14	0.05	0.19
WWC-10	< 0.500	54.4	380	0.629	8.02	177	988	<0.00200	0.0289	0.0347	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.125	<0.000150	0.00932	<0.00200	<0.00200	0.03	0.14	0.17

Date Oct. 2018

Round 13

Landfill Wells	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
CL-U-1	15.85	7.75	-159	777	0	1.62	0.497
CL-U-2	15.96	7.7	-158	743	0	1.01	0.476
CLW-1	15.83	7.73	-48	1480	1.3	2.01	0.948
CLW-2	16.6	7.79	-191	760	0	2	0.488
CLW-3	17.14	7.84	-215	1730	0.5	1.43	1.11
CLW-4	16.47	7.88	-233	1600	2.7	1.61	1.03
CLW-5	17.05	7.83	-220	1700	1.9	1.84	1.09
CLW-6	16.65	7.7	-229	1590	1.6	2.69	1.02
CLW-7	17.74	7.76	-57	1580	0.6	1.24	1.01
CLW-8	16.37	7.81	-36	1520	1	1.51	0.969
CLW-9	16.03	7.72	-299	1610	0.2	7.56	1.03
CL-U-3	16.1	9.08	-76	503	0	1.84	0.322

Round 14 (all results ppm) Assessment Monitoring - March 25 - April 9, 2020																									
Landfill Wells	Results																								
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined		
CL-U-1	< 0.500	57.6	429	0.979	7.70	122	916	<0.00200	0.0310	0.0800	<0.00200	<0.000500	0.00551	<0.00400	<0.00200	0.241	<0.000150	0.00505	<0.00200	<0.00200	0.36	0.93	1.29	1.29	
CL-U-2	< 0.500	60.0	408	1.01	7.68	118	964	<0.00200	0.0266	0.0901	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.221	<0.000150	0.00404	<0.00200	<0.00200	0.09	1.23	1.23	1.23	
CLW-1	< 0.500	36.6	304	0.979	7.91	61.0	856	<0.00200	0.0300	0.0612	<0.00200	<0.000500	0.00551	<0.00400	<0.00200	0.172	<0.000150	0.00527	<0.00200	<0.00200	0.25	0.12	0	0	
CLW-2	< 0.500	47.0	418	1.23	7.84	86.0	992	<0.00200	0.0258	0.0770	<0.00200	<0.000500	0.00337	<0.00400	<0.00200	0.212	0.000278	0.00556	<0.00200	<0.00200	0.03	0.54	0	0	
CLW-3	< 0.500	39.4	361	1.27	7.88	101	488	<0.00200	0.0387	0.0991	<0.00200	<0.000500	0.00251	<0.00400	<0.00200	0.206	<0.000150	0.00560	<0.00200	<0.00200	0.20	-0.04	0	0	
CLW-4	< 0.500	33.6	323	1.34	7.88	85.5	960	<0.00200	0.0381	0.0822	<0.00200	<0.000500	0.00245	<0.00400	<0.00200	0.204	<0.000150	0.00508	<0.00200	<0.00200	-0.03	0.47	0	0	
CLW-5	< 0.500	34.5	340	1.58	7.86	83.9	800	<0.00200	0.0227	0.0737	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.198	<0.000150	0.00585	<0.00200	<0.00200	0.15	0.62	0	0	
CLW-6	< 0.500	33.0	312	1.48	7.94	81.2	544	<0.00200	0.0225	0.0878	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.203	<0.000150	0.00540	<0.00200	<0.00200	0.43	-0.06	0	0	
CLW-7	< 0.500	44.3	329	1.03	7.79	60.5	1020	<0.00200	0.0242	0.0526	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.180	<0.000150	0.00392	<0.00200	<0.00200	0.20	-0.08	0	0	
CLW-8	< 0.500	40.8	316	1.03	7.86	63.7	880	<0.00200	0.0267	0.0634	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.182	<0.000150	0.00400	<0.00200	<0.00200	0.12	0.12	0	0	
CLW-9	< 0.500	25.2	296	1.90	7.96	83.5	932	<0.00200	0.0402	0.0499	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.170	<0.000150	0.00597	<0.00200	<0.00200	0.15	0.32	0	0	
CL-U-3	< 0.500	57.7	386	0.889	7.75	116	1090	<0.00200	0.0206	0.0478	<0.00200	<0.000500	0.00553	<0.00400	<0.00200	0.205	<0.000150	0.00467	<0.00200	<0.00200	-0.06	0.95	0.95	0.95	

Bottom Ash	Results																							Radium 226 and 228 combined		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
BA-U-1	< 0.500	188	1090	0.817	7.50	367	3050	<0.00200	0.0226	0.0774	<0.00200	<0.000500	0.0711	<0.00400	<0.00200	0.375	<0.000150	0.0152	0.00519	<0.00200	0.28	1.20	1.2			
BA-U-2	< 0.500	2.47	395	0.912	10.70	42.7	872	<0.00200	0.00683	0.0804	<0.00200	<0.000500	0.00611	<0.00400	<0.00200	0.327	<0.000150	0.00629	<0.00200	<0.00200	-0.03	0.70	0			
BAC-1	3.00	239	1890	0.645	7.39	1300	5270	<0.00200	0.0154	0.0340	<0.00200	<0.000500	0.00219	<0.00400	<0.00200	0.547	<0.000150	0.0170	0.00791	<0.00200	0.09	0.83	0.83			
BAC-2	8.38	210	1710	1.16	7.27	2440	6380	<0.00200	0.0609	0.0206	<0.00200	<0.000500	0.00986	<0.00400	<0.00200	0.431	0.000192	0.172	0.0128	<0.00200	0.33	1.21	1.21			
BAC-3	7.47	447	3620	1.26	7.21	4380	12500	<0.00200	0.0321	0.0284	<0.00200	<0.000500	0.0150	<0.00400	<0.00200	0.913	<0.000150	0.0251	0.0204	<0.00200	0.16	0.51	0			
BAC-4	0.613	70.5	541	1.09	7.89	295	1540	<0.00200	0.0330	0.0649	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.272	<0.000150	0.0211	<0.00200	<0.00200	-0.06	0.17	0			
BAC-5	0.547	83.5	552	0.991	7.79	416	1760	<0.00200	0.0297	0.0560	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.306	<0.000150	0.0242	<0.00200	<0.00200	0.03	0.22	0			
BAC-6	4.02	115	560	0.847	7.74	1020	2340	<0.00200	0.0255	0.0215	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.242	0.000278	0.0805	<0.00200	<0.00200	0.14	0.52	0			
BAC-7	5.48	92.6	532	1.48	7.91	1090	2400	<0.00200	0.0350	0.0168	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.218	<0.000150	0.0805	0.00202	<0.00200	0.21	0.25	0			
BAC-8	< 0.500	25.4	264	1.61	7.97	84.4	784	<0.00200	0.0596	0.0370	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.183	<0.000150	0.00581	<0.00200	<0.00200	0	0.16	0			
BAC-9	< 0.500	31.4	305	1.47	7.94	77.5	824	<0.00200	0.0488	0.0400	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.185	<0.000150	0.00487	<0.00200	<0.00200	0.09	0.29	0			
BAC-10	0.571	26.1	278	1.62	7.95	84.0	804	<0.00200	0.0531	0.0381	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.171	<0.000150	0.00617	<0.00200	<0.00200	0.22	0.19	0			
BAC-11	< 0.500	84.4	676	0.984	7.71	147	1100	<0.00200	0.0312	0.1160	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.244	<0.000150	0.00345	<0.00200	<0.00200	0.36	0.09	0			
BAC-12	< 0.500	25.9	210	1.24	7.99	71.7	360	<0.00200	0.0423	0.0938	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.132	<0.000150	0.00479	<0.00200	<0.00200	0.23	0.18	0			
BAC-13	0.604	115	929	0.957	7.50	276	46400	<0.00200	0.0329	0.0773	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.285	<0.000150	0.00250	<0.00200	<0.00200	0.35	0.55	0			
BAC-14	0.565	158	940	0.972	7.53	432	1180	<0.00200	0.0359	0.0542	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.321	<0.000150	0.00222	<0.00200	<0.00200	0.03	0.08	0			
BAC-15	< 0.500	26.2	263	1.75	8.01	78.9	600	<0.00200	0.0539	0.0395	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.172	<0.000150	0.00827	<0.00200	<0.00200	0.08	0.18	0			
BAC-16	< 0.500	24.2	304	1.89	8.15	77.8	900	<0.00200	0.0783	0.0346	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.183	<0.000150	0.00732	<0.00200	<0.00200	0.20	0.22	0			
Waste Water	Results																							Radium 226 and 228 combined		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
SI-U-1	< 0.500	113	699	0.511	7.70	279	1230	<0.00200	0.00865	0.0609	<0.00200	<0.000500	0.00305	<0.00400	<0.00200	0.239	<0.000150	0.00280	<0.00200	<0.00200	0.20	1.04	1.04			
WW-U-1	1.42	286	1940	0.324	7.24	1270	4740	<0.00200	0.00653	0.0391	<0.00200	<0.000500	0.00544	<0.00400	<0.00200	0.412	<0.000150	0.00811	0.00724	<0.00200	0.21	1.38	1.38			
WW-U-2	1.23	337	2020	0.473	7.42	981	4020	<0.00200	0.0108	0.0502	<0.00200	<0.000500	0.00696	<0.00400	<0.00200	0.498	<0.000150	0.00309	0.0112	<0.00200	0	1.08	1.08			
WWC-1	13.4	464	4800	<0.100	7.29	3440	13000	<0.00200	0.0256	0.0207	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.936	0.000238	0.0136	0.0133	<0.00200	0.32	0.36	0			
WWC-2	< 0.500	51.7	322	0.452	7.88	124	644	<0.00200	0.0159	0.0357	<0.00200	<0.000500	0.00332	<0.00400	<0.00200	0.119	<0.000150	0.00455	<0.00200	<0.00200	0.24	-0.15	0			
WWC-3	< 0.500	31.8	254	1.06	7.96	85.8	712	<0.00200	0.0219	0.0304	<0.00200	<0.000500	0.00240	<0.00400	<0.00200	0.142	<0.000150	0.00536	<0.00200	<0.00200	-0.08	0.19	0			
WWC-4	1.20	182	935	0.426	7.44	638	2730	<0.00200	0.0140	0.0437	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.314	<0.000150	0.00207	0.00228	<0.00200	0.47	0.27	0			
WWC-5	2.23	322	1580	0.295	7.15	1340	4670	<0.00200	0.0144	0.0367	<0.00200	<0.000500	0.00432	<0.00400	<0.00200	0.487	0.000278	0.00283	0.00560	<0.00200	0.04	0.96	0.96			
WWC-6	0.589	154	925	0.175	7.55	480	2490	<0.00200	0.0140	0.0925	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.213	<0.000150	0.00566	<0.00200	<0.00200	0.60	0.13	0			
WWC-7	< 0.500	41.0	186	0.357	7.96	122	596	<0.00200	0.0194	0.0297	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	<0.100	<0.000150	0.0044	<0.00200	<0.00200	0.11	0.17	0			
WWC-8	0.652	154	1040	0.473	7.58	593	2700	<0.00200	0.0155	0.0564	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.229	<0.000150	0.00322	0.00385	<0.00200	0.18	0.18	0			
WWC-9	< 0.500	40.5	302	0.843	7.99	98.8	652	<0.00200	0.0305	0.0629	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.147	<0.000150	0.00350	<0.00200	<0.00200	0.13	0.09	0			
WWC-10	< 0.500	55.2	369	0.491	7.85	164	804	<0.00200	0.0240	0.0361	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.107	<0.000150	0.00656	<0.00200	<0.00200	0.03	0.40	0			
WWC-11	< 0.500	34.9	197	0.467	8.64	97.8	280	<0.00200	0.00470	0.150	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	<0.100	<0.000150	0.00718	<0.00200	<0.00200	0.21	0.48	0			
WWC-12	< 0.500	77.1	382	0.453	8.85	143	320	<0.00200	0.0428	0.0761	<0.00200	<0.000500	0.00414	<0.00400	<0.00200	0.111	<0.000150	0.00423	<0.00200	<0.00200	0.03	0.42	0			
WWC-13	< 0.500	66.4	350	0.389	7.94	138	360	<0.00200	0.0207	0.0450	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.103	<0.000150	0.00382	<0.00200	<0.00200	0.15	0.24	0			
Date	Oct. 2018																									

Landfill Wells	Round 15																						
	Results																						
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined
CL-U-1	< 0.500	56.7	423	1.23	8.02	118	1050	<0.00400	0.0367	0.0866	<0.00200	<0.000500	0.00537	<0.00400	<0.00200	0.227	<0.000150	0.00422	<0.00200	<0.00200	0.73 +/- 0.46	0.54 +/- 0.42	0
CL-U-2	< 0.500	59.3	408	1.09	7.98	123	1600	<0.00400	0.0278	0.0991	<0.00200	<0.000500	0.00613	<0.00400	<0.00200	0.21	<0.000150	0.00461	<0.00200	<0.00200	0.03 +/- 0.15	0.81 +/- 0.44	0.81
CLW-1	< 0.500	34.8	305	1.15	8.06	64.4	972	<0.00400	0.0340	0.0640	<0.00200	<0.000500	0.00814	<0.00400	<0.00200	0.183	<0.000150	0.00407	<0.00200	<0.00200	0.14 +/- 0.16	0.61 +/- 0.36	0
CLW-2	< 0.500	44.4	432	1.26	8.10	95.5	1040	<0.00400	0.0299	0.0825	<0.00200	<0.000500	0.00576	<0.00400	<0.00200	0.218	<0.000150	0.00482	<0.00200	<0.00200	0.10 +/- 0.11	0.66 +/- 0.39	0
CLW-3	< 0.500	37.1	356	1.57	8.04	103	904	<0.00400	0.0426	0.1040	<0.00200	<0.000500	0.00346	<0.00400	<0.00200	0.208	<0.000150	0.00554	<0.00200	<0.00200	0.31 +/- 0.21	1.71 +/- 0.58	2.02
CLW-4	< 0.500	30.8	316	1.69	8.14	85.8	844	<0.00400	0.0444	0.0837	<0.00200	<0.000500	0.00336	<0.00400	<0.00200	0.203	<0.000150	0.00519	<0.00200	<0.00200	0.15 +/- 0.21	0.52 +/- 0.36	0
CLW-5	< 0.500	32.6	345	2.03	8.11	88.5	952	<0.00400	0.0253	0.0740	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.202	<0.000150	0.00503	<0.00200	<0.00200	-0.05 +/- 0.23	1.07 +/- 0.49	1.07
CLW-6	< 0.500	30.7	320	1.84	8.13	83.5	884	<0.00400	0.0173	0.0985	<0.00200	<0.000500	0.00335	<0.00400	<0.00200	0.197	<0.000150	0.00645	<0.00200	<0.00200	0.04 +/- 0.17	0.76 +/- 0.43	0
CLW-7	< 0.500	41.7	338	1.24	8.04	70.4	880	<0.00400	0.0270	0.0558	<0.00200	<0.000500	0.00421	<0.00400	<0.00200	0.185	<0.000150	0.00348	<0.00200	<0.00200	0.09 +/- 0.13	0.66 +/- 0.42	0
CLW-8	< 0.500	38.4	315	1.13	7.99	68.3	872	<0.00400	0.0297	0.0666	<0.00200	<0.000500	0.00463	<0.00400	<0.00200	0.185	<0.000150	0.00377	<0.00200	<0.00200	0.26 +/- 0.18	0.75 +/- 0.42	0
CLW-9	2	36.1	287	1.37	8.09	80.7	832	<0.00400	0.0411	0.0489	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	1.230	<0.000150	0.0059	<0.00200	<0.00200	0.16 +/- 0.24	0.51 +/- 0.39	0
CL-U-3	< 0.500	56.3	374	1.08	7.89	115	1080	<0.00400	0.0202	0.0509	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.223	<0.000150	0.00351	<0.00200	<0.00200	0.10 +/- 0.20	1.10 +/- 0.46	1.1

Landfill Wells	Round 15						
	Field Results						
	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS
CL-U-1	16.7	7.39	-168	1980	3.2	0.21	1.27
CL-U-2	16.77	7.3	-109	1920	0.8	3.13	1.23
CLW-1	17.12	7.41	-17	1560	1.1	2.97	1.00
CLW-2	17.25	7.56	-194	1980	0.9	0.18	1.26
CLW-3	17.34	7.6	-243	1770	1.8	4.44	1.14
CLW-4	16.23	7.53	-238	1660	1.6	0.23	1.06
CLW-5	16.56	7.49	-219	1760	4.9	0.30	1.13
CLW-6	16.65	7.62	-254	1640	2.0	0.34	1.05
CLW-7	16.77	7.43	-68	1660	1.5	2.14	1.06
CLW-8	16.98	-72	7.47	1580	1.7	2.39	1.01
CLW-9	14.93	7.62	-265	1570	1.4	0.26	1.01
CL-U-3	15.72	7.36	-496	1900	1.7	2.81	1.21

Bottom Ash	Results																							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined	
BA-U-1	< 0.500	209	1220	1.1	7.59	510	2660	<0.00400	0.0223	0.0668	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.44	<0.0000900	0.00274	0.00518	<0.00200	0.10 +/- 0.17	1.28 +/- 0.49	1.28	
BA-U-2	< 0.500	86.8	691	0.844	7.62	86.3	1780	<0.00400	0.0222	0.1470	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.321	<0.0000900	0	0.00227	<0.00200	0.13 +/- 0.15	0.88 +/- 0.42	0.88	
BAC-1	2.28	177	1240	0.687	7.16	1010	3510	<0.00400	0.2	0.0528	<0.00200	<0.000500	0.00365	<0.00400	<0.00200	0.34	<0.0000900	0.0979	0.00798	<0.00200	0.08 +/- 0.12	1.00 +/- 0.46	1	
BAC-2	7.08	205	1840	1.2	7.27	2670	6940	<0.00400	0.0632	0.0230	<0.00200	<0.000500	0.00573	<0.00400	<0.00200	0.436	<0.0000900	0.182	0.0137	<0.00200	0.02 +/- 0.16	1.27 +/- 0.50	1.27	
BAC-3	7.17	410	3790	1.56	7.25	4940	13800	<0.00400	0.0398	0.0300	<0.00200	<0.000500	0.0055	<0.00400	<0.00200	0.996	<0.0000900	0.0311	0.0222	<0.00200	0.02 +/- 0.11	0.83 +/- 0.44	0.83	
BAC-4	0.913	70.2	506	1.33	8.01	327	3500	<0.00400	0.0342	0.0656	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.29	<0.0000900	0.0262	<0.00200	<0.00200	-0.06 +/- 0.15	0.56 +/- 0.38	0	
BAC-5	0.677	83.7	552	1.2	7.99	451	1030	<0.00400	0.0322	0.0556	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.329	<0.0000900	0.0276	<0.00200	<0.00200	0.07 +/- 0.15	0.60 +/- 0.41	0	
BAC-6	4.26	115	507	1.09	7.88	958	1480	<0.00400	0.0270	0.0187	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.26	<0.0000900	0.0772	<0.00200	<0.00200	0.12 +/- 0.15	0.70 +/- 0.40	0	
BAC-7	6.05	90.1	560	2.28	8.05	1110	2220	<0.00400	0.0418	0.0192	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.236	<0.0000900	0.0691	0.00239	<0.00200	0.21 +/- 0.17	1.21 +/- 0.47	1.42	
BAC-8	< 0.500	24.1	254	1.63	7.99	91.9	724	<0.00400	0.0619	0.0368	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.154	<0.0000900	0.00644	<0.00200	<0.00200	0.04 +/- 0.16	1.16 +/- 0.47	1.16	
BAC-9	< 0.500	30.6	298	1.44	7.95	100	744	<0.00400	0.0504	0.0427	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.16	<0.0000900	0.0045	<0.00200	<0.00200	-0.06 +/- 0.21	0.63 +/- 0.44	0	
BAC-10	< 0.500	25.6	256	1.63	7.99	82.6	836	<0.00400	0.0559	0.0373	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.154	<0.0000900	0.00581	<0.00200	<0.00200	0 +/- 0.18	0.01 +/- 0.33	0	
BAC-11	< 0.500	78.6	742	1.17	7.76	168	1490	<0.00400	0.0338	0.1270	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.237	<0.0000900	0.00314	<0.00200	<0.00200	0.13 +/- 0.18	0.61 +/- 0.40	0	
BAC-12	< 0.500	30.9	291	1.45	7.92	77.8	832	<0.00400	0.0474	0.0983	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.15	<0.0000900	0.00454	<0.00200	<0.00200	-0.06 +/- 0.14	0.28 +/- 0.34	0	
BAC-13	0.613	111	973	1.1	7.62	326	1980	<0.00400	0.0351	0.0613	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.278	<0.0000900	<0.00200	<0.00200	<0.00200	0 +/- 0.099	0.90 +/- 0.43	0.9	
BAC-14	0.55	147	1040	1.05	7.50	465	2540	<0.00400	0.0313	0.0519	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.331	<0.0000900	0	<0.00200	<0.00200	0.19 +/- 0.20	0.47 +/- 0.35	0	
BAC-15	< 0.500	25.5	248	1.76	7.89	79.5	720	<0.00400	0.0573	0.0399	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.147	<0.0000900	0.00707	<0.00200	<0.00200	0.04 +/- 0.18	0.30 +/- 0.35	0	
BAC-16	< 0.500	23.1	477	1.88	8.00	206	730	<0.00400	0.0847	0.0354	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.167	<0.0000900	0.00651	<0.00200	<0.00200	0.04 +/- 0.16	0.70 +/- 0.42	0	
BAC-17	< 0.500	24.1	123	0.799	8.16	99.6	400	<0.00400	0.0321	0.0316	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	<0.100	<0.0000900	0.00421	<0.00200	<0.00200	0 +/- 0.12	0.47 +/- 0.35	0	
BAC-18	< 0.500	23.8	177	1.38	8.05	88.3	672	<0.00400	0.044	0.0618	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.109	<0.0000900	0.00544	<0.00200	<0.00200	0.04 +/- 0.22	0.36 +/- 0.36	0	
BAC-19	< 0.500	28.4	238	1.27	7.93	86.7	768	<0.00400	0.0436	0.0471	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.124	<0.0000900	0.00432	<0.00200	<0.00200	0.06 +/- 0.31	0.46 +/- 0.37	0	
BAC-20	< 0.500	26	178	1.12	8.08	88.2	720	<0.00400	0.0373	0.0604	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	<0.100	<0.0000900	0.00452	<0.00200	<0.00200	-0.06 +/- 0.16	0.92 +/- 0.43	0.92	
BAC-21	< 0.500	29.1	233	1.3	8.04	81.5	776	<0.00400	0.0431	0.0822	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.128	<0.0000900	0.00429	<0.00200	<0.00200	0.05 +/- 0.25	0.81 +/- 0.40	0.81	
BAC-22	< 0.500	27.7	221	1.34	7.97	93	780	<0.00400	0.0487	0.0344	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.13	<0.0000900	0.0047	<0.00200	<0.00200	0.16 +/- 0.17	2.03 +/- 0.66	2.03	
BAC-23	< 0.500	29.2	226	1.24	7.95	89.9	628	<0.00400	0.0414	0.0430	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.117	<0.0000900	0.00419	<0.00200	<0.00200	0 +/- 0.17	2.48 +/- 0.75	2.48	
BAC-24	< 0.500	28.9	260	1.52	7.89	79.3	724	<0.00400	0.0511	0.0642	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.15	<0.0000900	0.00415	<0.00200	<0.00200	-0.07 +/- 0.18	1.61 +/- 0.58	1.61	
BAC-25	< 0.500	28	193	1.17	7.86	75.1	636	<0.00400	0.0335	0.1070	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.112	<0.0000900	0.00466	<0.00200	<0.00200	-0.15 +/- 0.25	1.91 +/- 0.64	1.91	
BAC-26	< 0.500	20.8	200	1.89	7.97	64.5	628	<0.00400	0.0534	0.0777	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.131	<0.0000900	0.00494	<0.00200	<0.00200	0.12 +/- 0.17	1.15 +/- 0.48	1.15	
BAC-27	< 0.500	25	266	1.68	7.93	65.6	864	<0.00400	0.0508	0.0790	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.152	<0.0000900	0.00514	<0.00200	<0.00200	-0.06 +/- 0.25	0.91 +/- 0.43	0.91	
BAC-28	< 0.500	26.2	270	1.56	7.92	63.7	816	<0.00400	0.0487	0.0791	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.161	<0.0000900	0.00477	<0.00200	<0.00200	-0.04 +/- 0.32	1.72 +/- 0.59	1.72	
BAC-29	< 0.500	62.3	581	1.22	7.74	145	1550	<0.00400	0.0351	0.0729	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.234	<0.0000900	0.00346	<0.00200	<0.00200	-0.03 +/- 0.13	1.24 +/- 0.50	1.24	
BAC-30	< 0.500	57.3	553	1.21	7.78	134	1300	<0.00400	0.0385	0.0844	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.218	<0.0000900	0.00396	<0.00200	<0.00200	0.03 +/- 0.14	1.30 +/- 0.53	1.3	
BAC-31	< 0.500	45.1	448	1.31	7.80	101	920	<0.00400	0.0397	0.0824	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.193	<0.0000900	0.0043	<0.00200	<0.00200	0 +/- 0.26	1.52 +/- 0.54	1.52	
BAC-32	< 0.500	24.2	242	1.64	7.99	59.2	768	<0.00400	0.0461	0.0926	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.155	<0.0000900	0.00539	<0.00200	<0.00200	0.03 +/- 0.16	0.92 +/- 0.42	0.92	
BAC-33	< 0.500	26.4	265	1.6	7.90	69.5	812	<0.00400	0.0509	0.1080	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.154	<0.0000900	0.00728	<0.00200	<0.00200	0.10 +/- 0.24	1.05 +/- 0.44	1.05	
BAC-34	< 0.500	20.9	209	1.7	8.05	60.9	744	<0.00400	0.0542	0.0678	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.144	<0.0000900	0.00476	<0.00200	<0.00200	0.23 +/- 0.22	1.22 +/- 0.50	1.22	
BAC-35	< 0.500	23.5	234	1.66	8.00	69.4	724	<0.00400	0.0556	0.0744	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.151	<0.0000900	0.00509	<0.00200	<0.00200	0.32 +/- 0.24	1.15 +/- 0.48	1.47	
BAC-36	< 0.500	25.5	198	1.28	8.10	90.4	688	<0.00400	0.041	0.0810	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.109	<0.0000900	0.00502	<0.00200	<0.00200	0.25 +/- 0.21	0.33 +/- 0.33	0	
BAC-37	< 0.500	24.4	176	1.27	8.04	89.5	668	<0.00400	0.0423	0.0541	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.103	<0.0000900	0.00511	<0.00200	<0.00200	-0.06 +/- 0.15	1.22 +/- 0.48	1.22	
BAC-38	< 0.500	30.1	247	1.29	8.06	87.4	844	<0.00400	0.0361	0.0653	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.124	<0.0000900	0.00523	<0.00200	<0.00200	-0.03 +/- 0.16	1.12 +/- 0.48	1.12	

Landfill Wells		Round 16																				Field Results					
		Results																									
Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined					
CL-U-1	<0.500	54.0	435	1.07	7.69	123	932	<0.00400	0.0319	0.0856	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.209	<0.000900	0.00352	<0.00200	<0.00200	0.14	0.84	0.84				
CL-U-2	<0.500	57.3	411	1.09	7.73	121	480	<0.00400	0.0271	0.0998	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.198	<0.000900	0.00401	<0.00200	<0.00200	0.09	0.79	0.79				
CLW-1	<0.500	34.7	301	1.11	8.73	62.4	892	<0.00400	0.0307	0.0622	<0.00200	<0.000500	0.00299	<0.00400	<0.00200	0.178	<0.000900	0.00405	<0.00200	<0.00200	0.29	0.42	0				
CLW-2	<0.500	45.8	456	1.29	7.75	99.7	1060	<0.00400	0.0275	0.0837	<0.00200	<0.000500	0.00224	<0.00400	<0.00200	0.218	<0.000900	0.00477	<0.00200	<0.00200	-0.03	0.81	0.81				
CLW-3	<0.500	37.5	377	1.43	7.81	104	952	<0.00400	0.0402	0.1040	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.203	<0.000900	0.00533	<0.00200	<0.00200	0.24	0.41	0				
CLW-4	<0.500	33.3	341	1.45	7.85	90.7	688	<0.00400	0.0404	0.0833	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.197	<0.000900	0.00457	<0.00200	<0.00200	0.18	0.86	0.86				
CLW-5	<0.500	33.7	358	1.91	7.87	88.9	944	<0.00400	0.0242	0.0745	<0.00200	<0.000500	0.00297	<0.00400	<0.00200	0.197	<0.000900	0.00490	<0.00200	<0.00200	0.23	0.66	0				
CLW-6	<0.500	31.9	342	1.56	7.92	91.1	1010	<0.00400	0.0324	0.0866	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.190	<0.000900	0.00435	<0.00200	<0.00200	0.34	0.54	0				
CLW-7	<0.500	41.0	335	1.07	8.18	66.1	376	<0.00400	0.0247	0.0532	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.185	<0.000900	0.00382	<0.00200	<0.00200	0.08	0.53	0				
CLW-8	<0.500	38.8	315	1.08	8.33	66.9	840	<0.00400	0.0279	0.0679	<0.00200	<0.000500	0.00622	<0.00400	<0.00200	0.184	<0.000900	0.00389	<0.00200	<0.00200	0.3	0.67	0				
CLW-9	0.332	24.9	288	1.87	8.01	87.3	856	<0.00400	0.0421	0.051	<0.00200	<0.000500	0.0156	<0.00400	<0.00200	0.160	<0.000900	0.00738	<0.00200	<0.00200	0.06	0.39	0				
CL-U-3	<0.500	54.8	414	0.938	7.78	123	1080	<0.00400	0.0213	0.0511	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.197	<0.000900	0.00337	<0.00200	<0.00200	0.09	0.7	0				
Bottom Ash		Results																				Field Results					
		Results																									
Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined					
BA-U-1	0.559	197	1240	0.945	7.49	557	2760	<0.00400	0.023	0.0660	<0.00200	<0.000500	0.00314	<0.00400	<0.00200	0.367	<0.000900	0.003	0.00599	<0.00200	-0.15	0.48	0				
BA-U-2	<0.500	84.9	809	0.851	7.68	99.1	1620	<0.00400	0.0222	0.1500	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.287	<0.000900	<0.00200	0.00253	<0.00200	0.22	1.09	1.09				
BAC-1	3.20	267	2020	0.928	7.44	1480	5900	<0.00400	0.0163	0.0402	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.542	<0.000900	0.011	0.00905	<0.00200	0.34	0.87	1.21				
BAC-2	6.49	228	2070	1.37	7.42	2430	7140	<0.00400	0.0429	0.0213	<0.00200	<0.000500	0.00721	<0.00400	<0.00200	0.452	<0.000900	0.0129	0.012	<0.00200	-0.04	0.91	0.91				
BAC-3	8.4	388	3890	1.9	7.46	5120	13800	<0.00400	0.0455	0.0285	<0.00200	<0.000500	0.00905	<0.00400	<0.00200	0.992	<0.000900	0.0344	0.0222	<0.00200	-0.05	1.21	1.21				
BAC-4	0.735	66	545	1.15	7.98	335	1560	<0.00400	0.0322	0.0637	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.265	<0.000900	0.0246	<0.00200	<0.00200	0.11	-0.07	0				
BAC-5	0.685	79.6	555	1.05	7.88	488	1780	<0.00400	0.0303	0.0466	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.301	<0.000900	0.0325	<0.00200	<0.00200	0.08	0.32	0				
BAC-6	4.15	97.8	519	0.98	7.76	941	2340	<0.00400	0.0268	0.0188	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.232	<0.000900	0.0701	<0.00200	<0.00200	0.08	0.53	0				
BAC-7	5.66	97.9	636	1.94	7.77	1150	3210	<0.00400	0.0389	0.0196	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.235	<0.000900	0.0634	0.00299	<0.00200	-0.02	0.42	0				
BAC-8	0.332	25.3	265	1.53	7.99	91.7	872	<0.00400	0.0668	0.0402	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.157	<0.000900	0.0059	<0.00200	<0.00200	0.06	0.28	0				
BAC-9	0.306	30.9	314	1.27	7.92	80.1	860	<0.00400	0.0546	0.0485	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.17	<0.000900	0.00565	<0.00200	<0.00200	0.078	0.40	0				
BAC-10	0.326	25.3	270	1.48	8.01	83.6	840	<0.00400	0.0588	0.0429	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.154	<0.000900	0.00656	<0.00200	<0.00200	0.086	0.15	0				
BAC-11	0.33	79.5	726	0.985	7.68	167	1560	<0.00400	0.0362	0.1340	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.272	<0.000900	0.00384	<0.00200	<0.00200	0.11	0.91	0.91				
BAC-12	0.27	25.5	212	1.25	7.96	74.6	688	<0.00400	0.0441	0.0684	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.113	<0.000900	0.00491	<0.00200	<0.00200	0.12	0.98	1.3				
BAC-13	0.667	130	1090	0.962	7.60	433	2960	<0.00400	0.0356	0.0571	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.312	<0.000900	0.00201	<0.00200	<0.00200	0.05	0.66	0				
BAC-14	0.587	160	1060	0.936	7.25	480	2470	<0.00400	0.0298	0.0494	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.344	<0.000900	0.00213	<0.00200	<0.00200	0.02	0.61	0				
BAC-15	0.307	25.1	258	1.69	7.86	84	1420	<0.00400	0.061	0.0419	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.145	<0.000900	0.00743	<0.00200	<0.00200	0.06	-0.14	0				
BAC-16	0.32	23.8	312	1.84	8.02	82.2	4720	<0.00400	0.0888	0.0381	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.165	<0.000900	0.00653	<0.00200	<0.00200	0	0.40	0				
BAC-17	<0.500	24.6	130	0.606	8.14	103	576	<0.00400	0.0338	0.0317	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	<0.100	<0.000900	0.00425	<0.00200	<0.00200	0.09	0.41	0				
BAC-18	0.266	24.5	199	1.18	8.03	93.5	676	<0.00400	0.0456	0.0549	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.112	<0.000900	0.00494	<0.00200	<0.00200	0.09	0.9	0.9				
BAC-19	0.28	30.2	243	1.17	7.95	86.2	696	<0.00400	0.0437	0.0448	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.13	<0.000900	0.00436	<0.00200	<0.00200	0.13	1.29	1.42				
BAC-20	0.249	28.2	199	0.904	8.02	94.1	744	<0.00400	0.0393	0.0515	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.103	<0.000900	0.00644	<0.00200	<0.00200	0.14	0.86	0.86				
BAC-21	0.226	27.5	194	1.09	8.08	82.5	640	<0.00400	0.0401	0.0769	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.106	<0.000900	0.00547	<0.00200	<0.00200	0.041	0.93	0.93				
BAC-22	0.276	29.4	240	1.2	7.95	97.5	668	<0.00400	0.0476	0.0371	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.125	<0.000900	0.00552	<0								

Landfill Wells	Round 17																							Landfill Wells	Field Results							
	Results																								Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS	
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined									
CL-U-1	0.287	59.0	421	0.939	7.93	121	956	<0.00400	0.0287	0.0847	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.249	<0.000900	0.00325	<0.00200	<0.00200	0.30	1.03	0	CL-U-1	14.68	7.5	-110	2050	1.4	0.25	1.31	
CL-U-2	0.279	60.4	402	0.979	7.77	120	924	<0.00400	0.0254	0.0943	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.224	<0.000900	0.00352	<0.00200	<0.00200	0.22	0.47	0	CL-U-2	14.97	7.46	-73	1970	1.4	2.81	1.26	
CLW-1	0.254	38.0	294	1.04	7.95	62.0	836	<0.00400	0.0308	0.0629	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.206	<0.000900	0.00344	<0.00200	<0.00200	0.14	0.56	0	CLW-1	16.16	7.41	-59	1550	0.0	0.41	0.99	
CLW-2	0.302	50.9	435	1.14	7.88	94.5	1050	<0.00400	0.0251	0.0809	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.258	<0.000900	0.00415	<0.00200	<0.00200	0.05	0.6	0	CLW-2	15.57	7.29	-145	2020	0.0	0.48	1.29	
CLW-3	0.322	40.7	352	1.25	7.90	98.8	876	<0.00400	0.0389	0.1010	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.24	<0.000900	0.00484	<0.00200	<0.00200	0.15	0.21	0	CLW-3	15.98	7.57	-211	1780	0.0	0.64	1.14	
CLW-4	0.308	36.7	322	1.38	7.99	84.9	916	<0.00400	0.0307	0.0818	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.227	<0.000900	0.0046	<0.00200	<0.00200	0.12	0.09	0	CLW-4	15.99	7.57	-98	1670	0.0	1.50	1.07	
CLW-5	0.367	35.8	340	1.73	8.00	86.5	860	<0.00400	0.0227	0.0705	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.228	<0.000900	0.00416	<0.00200	<0.00200	0.27	0.44	0	CLW-5	16.30	7.52	-209	1760	6.6	0.30	1.13	
CLW-6	0.313	33.6	315	1.49	7.99	84.6	800	<0.00400	0.0205	0.0924	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.224	<0.000900	0.00466	<0.00200	<0.00200	0.33	0.51	0	CLW-6	15.52	7.51	-219	1660	0.0	0.29	1.06	
CLW-7	0.25	46.1	337	1.01	7.85	67.8	808	<0.00400	0.0254	0.0544	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.210	<0.000900	0.00301	<0.00200	<0.00200	0.17	0.28	0	CLW-7	16.18	7.39	-48	1670	2.2	0.36	1.06	
CLW-8	0.252	41.4	310	1.03	7.93	67.5	808	<0.00400	0.0278	0.0625	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.201	<0.000900	0.00322	<0.00200	<0.00200	0.12	0.99	0.99	CLW-8	15.66	7.42	-29	1590	1.0	1.88	1.02	
CLW-9	0.359	27.8	280	1.84	7.96	84.3	892	<0.00400	0.0412	0.0479	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.177	<0.000900	0.00511	<0.00200	<0.00200	0.09	0.12	0	CLW-9	14.23	7.37	-309	1570	0.0	2.70	1	
CL-U-3	0.257	58.7	391	0.858	7.84	119	1020	<0.00400	0.0272	0.0485	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.223	<0.000900	0.00292	<0.00200	<0.00200	0	0.47	0	CL-U-3	15.65	7.2	-142	1870	0.0	0.46	1.20	
Bottom Ash	Results																							Bottom Ash	Field Results							
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined									
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Radium 226 and 228 combined									
BA-U-1	0.567	235	1280	0.772	7.68	637	2900	<0.00400	0.0209	0.0610	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.467	<0.000900	0.00219	0.00518	<0.00200	0.06	0.83	0	BA-U-1	15.15	7.25	-27	5320	1	0.65	3.38	
BA-U-2	0.339	91	735	0.798	7.80	81.2	1580	<0.00400	0.0212	0.1460	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.339	<0.000900	<0.00200	0.0026	<0.00200	0.09	0.76	0	BA-U-2	15.02	7.39	-110	2810	1.2	0.48	1.79	
BAC-1	2.68	296	1890	0.711	7.24	1400	5160	<0.00400	0.0178	0.0411	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.669	<0.000900	0.0112	0.00692	<0.00200	0.13	0.98	0.98	BAC-1	17.23	6.93	138	8260	4.6	6.37	5.21	
BAC-2	6.34	250	1940	1.38	7.69	2380	7080	<0.00400	0.0435	0.0225	<0.00200	<0.000500	0.00499	<0.00400	<0.00200	0.632	<0.000900	0.128	0.128	<0.00200	0.16	1.17	1.33	BAC-2	16.82	7.07	82	10200	0.5	6.1	6.81	
BAC-3	7.06	405	3230	1.67	7.44	4310	13100	<0.00400	0.0418	0.0284	<0.00200	<0.000500	0.00585	<0.00400	<0.00200	1.180	<0.000900	0.0366	0.0192	<0.00200	0.13	0.92	0	BAC-3	16.95	7.14	84	15700	0.6	1.04	9.72	
BAC-4	0.74	77.5	552	1.07	7.77	366	1610	<0.00400	0.0292	0.0576	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.311	<0.000900	0.0239	<0.00200	<0.00200	0.43	0.14	0	BAC-4	16.74	7.51	-35	2780	0	0.25	1.78	
BAC-5	0.721	80.3	558	0.96	7.84	505	1780	<0.00400	0.0284	0.0425	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.352	<0.000900	0.0329	<0.00200	<0.00200	0.03	0.17	0	BAC-5	16.93	7.51	-41	3000	0	2.45	1.92	
BAC-6	4.04	119	514	1.15	7.77	989	2400	<0.00400	0.0283	0.0176	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.262	<0.000900	0.0685	<0.00200	<0.00200	0.16	0.98	0.98	BAC-6	16.83	7.53	-10	3660	0	0.2	2.34	
BAC-7	5.34	134	670	2.06	7.81	1240	3280	<0.00400	0.0388	0.0208	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.299	<0.000900	0.0615	0.0035	<0.00200	<0.00200	0.07	0.82	0	BAC-7	15.62	7.41	-89	4610	0	0.83	2.95
BAC-8	0.322	24.5	257	1.4	7.96	84.5	836	<0.00400	0.0067	0.0393	<0.00200	<0.000500	0.00129	0.00431	<0.00400	0.167	<0.000900	0.00538	<0.00200	<0.00200	0.05	0.23	0	BAC-8	16.85	7.59	-12	1540	4.8	1.23	0.987	
BAC-9	0.303	31.8	332	1.22	7.95	83.2	868	<0.00400	0.0518	0.0464	<0.00200	<0.000500	0.00172	<0.00400	<0.00200	0.169	<0.000900	0.04042	<0.00200	<0.00200	0.05	0.31	0	BAC-9	15.81	7.55	21	1700	2.7	2.67	1.09	
BAC-10	0.31	24.1	257	1.46	7.99	81.2	856	<0.00400	0.0543	0.0379	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.134	<0.000900	0.006	<0.00200	<0.00200	0.16	0.11	0	BAC-10	16.21	7.80	73	1560	1.6	6.85	0.996	
BAC-11	0.319	77.6	717	1	7.63	169	1770	<0.00400	0.031	0.1180	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.288	<0.000900	0.00287	<0.00200	<0.00200	0.11	0.32	0	BAC-11	15.49	7.39	15	3070	6.0	4.33	1.96	
BAC-12	0.288	30.7	308	1.2	7.77	82.3	1010	<0.00400	0.0427	0.0776	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.158	<0.000900	0.04064	<0.00200	<0.00200	0.47	0.18	0	BAC-12	15.21	7.56	13	1640	2.2	3.40	1.05	
BAC-13	0.601	120	995	0.988	7.55	733	2460	<0.00400	0.0367	0.0517	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.307	<0.000900	0.0202	<0.00200	<0.00200	0.31	0.98	0	BAC-13	15.69	7.41	-94	4240	7.0	0.47	2.72	
BAC-14	0.516	152	1020	0.884	7.43	470	2650	<0.00400	0.0289	0.047	<0.00200	<0.000500	<0.00200	<0.00400	<0.00200	0.355	<0.000900	<0.00200	<0.00200	<0.00200	0.21	0.57	0	BAC-14	15.84	7.30	18	4470	1.4	4.21	2.86	
BAC-15	0.305	2																														

Round 18																													
Results																													
Landfill Wells	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228							
CL-U-1	0.26	52.2	441	1.1	7.10	116	1040	<0.00050	<0.10	0.0800	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.228	<0.00020	<0.01	<0.00050	<0.00020	0.19	0.25							
CL-U-2	0.25	53.7	415	0.9	7.30	114	1030	<0.00050	<0.10	0.0920	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.214	<0.00020	<0.01	<0.00050	<0.00020	0.15	0.61							
CLW-1	0.23	34.2	317	1.2	7.60	58.5	784	<0.00050	<0.10	0.0610	<0.00050	<0.000200	0.05	<0.00050	<0.00050	0.198	<0.00020	<0.01	<0.00050	<0.00020	0.03	0.4							
CLW-2	0.27	45.0	451	1.1	7.60	89.6	1020	<0.00050	<0.10	0.0770	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.242	<0.00020	<0.01	<0.00050	<0.00020	0.53	0.93							
CLW-3	0.29	35.5	368	1.6	7.80	92.5	884	<0.00050	<0.10	0.0970	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.22	<0.00020	<0.01	<0.00050	<0.00020	0.59	0.03							
CLW-4	0.28	32.0	343	1.4	7.80	82.6	860	<0.00050	<0.10	0.0760	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.214	<0.00020	<0.01	<0.00050	<0.00020	0.07	0.35							
CLW-5	0.32	30.8	357	1.8	7.80	80.6	868	<0.00050	<0.10	0.0670	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.212	<0.00020	<0.01	<0.00050	<0.00020	0.23	0.45							
CLW-6	0.28	29.4	328	1.7	6.70	81.1	820	<0.00050	<0.10	0.0890	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.206	<0.00020	<0.01	<0.00050	<0.00020	0.25	0.55							
CLW-7	0.23	40.8	360	0.9	7.60	63.9	848	<0.00050	<0.10	0.0510	<0.00050	<0.000200	0.016	<0.00050	<0.00050	0.198	<0.00020	<0.01	<0.00050	<0.00020	0.23	0.68							
CLW-8	0.23	36.8	324	1.2	7.50	61.7	844	<0.00050	<0.10	0.0600	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.193	<0.00020	<0.01	<0.00050	<0.00020	0.08	0.31							
CLW-9	0.31	22.5	290	1.80	7.70	80.1	776	<0.00050	<0.10	0.046	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.170	<0.00020	<0.01	<0.00050	<0.00020	0.13	0.46							
CL-U-3	0.23	51.7	402	0.8	7.40	110	1020	<0.00050	<0.10	0.048	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.210	<0.00020	0.02000	<0.00050	<0.00020	0.32	0.03							
Results																													
Bottom Ash	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228							
BA-U-1	0.5	183	1140	0.7	7.30	587	2810	<0.00050	<0.10	0.0620	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.388	<0.00020	<0.01	<0.00050	<0.00020	0.16	1.11							
BA-U-2	0.3	82.9	887	0.7	7.40	88.9	1660	<0.00050	<0.10	0.1340	<0.00050	<0.000200	0.01	<0.00050	<0.00050	0.306	<0.00020	<0.01	<0.00050	<0.00020	0.13	0.52							
BAC-1	5.67	372	4500	0.8	7.20	4730	<0.00050	<0.10	0.031	<0.00050	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.856	<0.00020	<0.01	<0.00050	<0.00020	0.05	0.42							
BAC-2	6.45	184	1920	1.1	7.40	2100	6420	<0.00050	<0.10	0.0230	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.435	<0.00020	0.15	<0.00050	<0.00020	0.09	0.47							
BAC-3	2.04	155	1560	0.4	7.30	1110	4090	<0.00050	<0.10	0.0420	<0.00050	<0.000200	0.007	<0.00050	<0.00050	0.328	<0.00020	0.03	<0.00050	<0.00020	0.12	0.65							
BAC-4	0.64	69.2	590	1	7.60	377	1670	<0.00050	<0.10	0.0580	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.294	<0.00020	0.02	<0.00050	<0.00020	0.10	0.06							
BAC-5	0.67	77.8	580	0.8	7.60	500	1670	<0.00050	<0.10	0.0450	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.328	<0.00020	0.03	<0.00050	<0.00020	0.02	0.24							
BAC-6	3.92	98.3	535	0.8	7.70	989	2310	<0.00050	<0.10	0.0170	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.251	<0.00020	0.07	<0.00050	<0.00020	0.03	0.39							
BAC-7	4.63	97.2	737	1.5	7.70	1180	2920	<0.00050	<0.10	0.019	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.265	<0.00020	0.05	<0.00050	<0.00020	-0.08	0.24							
BAC-8	0.29	20.8	267	1.8	7.40	74.7	856	<0.00050	0.05	0.0360	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.158	<0.00020	<0.01	<0.00050	<0.00020	0.03	0.30							
BAC-9	0.28	27.5	338	1.5	7.40	69.5	884	<0.00050	0.05	0.0440	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.166	<0.00020	<0.01	<0.00050	<0.00020	0.16	0.72							
BAC-10	0.29	21.7	264	1.8	7.60	69.4	800	<0.00050	0.05	0.036	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.152	<0.00020	<0.01	<0.00050	<0.00020	0.20	0.28							
BAC-11	0.29	64.6	718	1.1	7.40	140	1630	<0.00050	<0.10	0.1020	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.245	<0.00020	<0.01	<0.00050	<0.00020	0.11	0.02							
BAC-12	0.24	21.9	211	1.4	7.60	62.8	1300	<0.00050	<0.10	0.049	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.126	<0.00020	<0.01	<0.00050	<0.00020	0.16	0.34							
BAC-13	0.63	124	1070	0.8	7.40	373	2560	<0.00050	<0.10	0.0480	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.317	<0.00020	<0.01	<0.00050	<0.00020	0	0.89							
BAC-14	0.5	135	1120	1	7.30	476	2670	<0.00050	<0.10	0.043	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.332	<0.00020	<0.01	<0.00050	<0.00020	0.14	0.11							
BAC-15	0.27	20.9	257	2	7.70	68.9	800	<0.00050	0.05	0.036	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.143	<0.00020	<0.01	<0.00050	<0.00020	0	0							
BAC-16	0.29	20.3	325	2.2	7.70	66.8	896	<0.00050	0.07	0.034	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.168	<0.00020	<0.01	<0.00050	<0.00020	0.06	0.21							
BAC-17	0.18	22.9	137	0.5	7.40	99.7	468	<0.00050	<0.10	0.028	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.061	<0.00020	<0.01	<0.00050	<0.00020	0.22	0.91							
BAC-18	0.24	21.1	198	1.4	7.80	82.3	608	<0.00050	<0.10	0.0460	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.113	<0.00020	<0.01	<0.00050	<0.00020	-0.08	0.14							
BAC-19	0.25	26.1	245	1.3	7.70	87.5	696	<0.00050	<0.10	0.0380	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.132	<0.00020	<0.01	<0.00050	<0.00020	0.03	0.37							
BAC-20	0.24	26.5	183	<5.0	7.80	75.5	624	<0.00050	<0.10	0.0440	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.124	<0.00020	0.0041	<0.00050	<0.00020	0.08	0.26							
BAC-21	0.27	25.1	628	<5.5	7.80	65.6	628	<0.00050	<0.10	0.0580	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.136	<0.00020	0.0041	<0.00050	<0.00020	0.32	0.86							
BAC-22	0.23	25	222	1.2	7.60	86.6	668	<0.00050	<0.10	0.0310	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.124	<0.00020	<0.01	<0.00050	<0.00020	0.07	0.48							
BAC-23	0.25	26.9	249	1.3	7.50	90.5	728	<0.00050	<0.10	0.0330	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.13	<0.00020	<0.01	<0.00050	<0.00020	0.13	0.74							
BAC-24	0.27	26.4	283	1.40	7.60	76.3	816	<0.00050	<0.10	0.0580	<0.00050	<0.000200	<0.010	<0.00050	<0.00050	0.163	<0.00020	<0.01	<0.00050	<0.00020	-0.04	0.23							
BAC-25	0.24	25.8	1																										

Round 19																											
Landfill Wells		Results																									
		Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
CL-U-1	0.27	58.2	457	0.912	7.60	116	1180	<0.02	0.0296	0.0840	<0.001	<0.005	0.0017	<0.01	<0.02	0.247	<0.00015	0.0036	0.001	<0.00020	0.33	0.56					
CL-U-2	0.26	58.3	436	0.934	7.60	115	1100	<0.02	0.0264	0.0920	<0.001	<0.005	0.0016	<0.01	<0.02	0.227	<0.00015	0.0039	0.0009	<0.00020	0.37	0.51					
CLW-1	0.24	37.2	333	1.02	7.80	67.7	848	<0.02	0.0324	0.0620	<0.001	<0.005	0.0078	<0.01	<0.02	0.208	<0.00015	0.0043	0.0019	<0.00020	0.34	0.06					
CLW-2	0.29	51.1	536	1.1	7.70	94.5	1110	<0.02	0.0267	0.0820	<0.001	<0.005	0.0023	<0.01	<0.02	0.264	<0.00015	0.0044	0.0012	<0.00020	0.37	0.41					
CLW-3	0.31	39.7	392	1.24	7.80	98.4	960	<0.02	0.0405	0.1000	<0.001	<0.005	0.0019	<0.01	<0.02	0.234	<0.00015	0.00510	0.001	<0.00020	0.24	0.9					
CLW-4	0.29	35.3	360	1.38	7.80	84.7	916	<0.02	0.0334	0.0760	<0.001	<0.005	0.0029	<0.01	<0.02	0.23	<0.00015	0.0048	0.0008	<0.00020	0.37	0.49					
CLW-5	0.34	34.0	419	1.72	7.80	86.1	904	<0.02	0.0242	0.0690	<0.001	<0.005	0.0048	<0.01	<0.02	0.229	<0.00015	0.00460	0.0009	<0.00020	0.50	0.54					
CLW-6	0.29	34.4	352	1.32	7.80	87.8	980	<0.02	0.0364	0.0830	<0.001	<0.005	0.0024	<0.01	<0.02	0.233	<0.00015	0.00430	0.0009	<0.00020	0.74	0.02					
CLW-7	0.24	45.5	384	0.987	7.40	71.1	916	<0.02	0.0252	0.0530	<0.001	<0.005	0.0055	<0.01	<0.02	0.222	<0.00015	0.00370	0.0009	<0.00020	0.85	0.25					
CLW-8	0.22	41.4	335	1.01	7.60	66.7	832	<0.02	0.0391	0.0620	<0.001	<0.005	0.0054	<0.01	<0.02	0.224	<0.00015	0.00510	0.0018	<0.00020	0.86	1.3					
CLW-9	0.32	24.6	294	2.08	7.80	83.5	788	<0.02	0.041	0.047	<0.001	<0.005	0.0025	<0.01	<0.02	0.170	<0.00015	0.0053	0.0015	<0.00020	0.14	0.33					
CL-U-3	0.24	57.5	417	0.827	7.70	115	1050	<0.02	0.0198	0.049	<0.001	<0.005	0.0015	<0.01	<0.02	0.220	<0.00015	0.00320	<0.00050	<0.00020	0.17	0.74					
Bottom Ash																											
		Results																									
		Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228				
BA-U-1	0.58	213	1490	0.74	7.40	793	3080	<0.02	0.0205	0.0640	<0.001	<0.005	0.0012	<0.0015	<0.02	0.461	<0.00015	0.0028	0.0069	<0.00020	0.10	0.12					
BA-U-2	0.33	94.9	867	0.705	7.60	93.2	1810	<0.02	0.0202	0.1460	<0.001	<0.005	0.002	<0.01	<0.02	0.328	<0.00015	0.0017	0.0035	<0.00020	0.03	0.26					
BA-C-1	2.56	248	2080	0.502	7.20	1540	5400	<0.02	<0.05	0.037	<0.001	<0.005	<0.005	<0.01	<0.02	0.494	<0.00015	<0.01	0.0002	<0.00020	0.07	1.9					
BA-C-2	4.75	233	1320	0.839	7.20	1420	8200	<0.02	<0.05	0.0220	<0.001	<0.005	0.007	<0.01	<0.02	0.425	<0.00015	0.08	0.02	<0.00020	0.67	1.8					
BA-C-3	5.35	372	3220	0.617	7.30	3840	11600	<0.02	0.05	0.0280	<0.001	<0.005	0.008	<0.01	<0.02	0.796	<0.00015	0.02	0.02	<0.00020	0.62	0.89					
BA-C-4	0.7	76.2	703	1.01	7.60	464	1620	<0.02	0.0329	0.0580	<0.001	<0.005	0.0047	<0.01	<0.02	0.314	<0.00015	0.0254	0.0021	<0.00020	0.51	0.36					
BA-C-5	0.77	88.1	765	0.931	7.60	732	1820	<0.02	0.0310	0.0390	<0.001	<0.005	0.0041	<0.01	<0.02	0.351	<0.00015	0.0391	0.0021	<0.00020	0.80	0.31					
BA-C-6	4.2	106	527	0.953	7.60	1070	2430	<0.02	0.0295	0.0170	<0.001	<0.005	0.0022	0.0008	<0.02	0.269	<0.00015	0.0808	0.0031	<0.00020	0.50	0.1					
BA-C-7	4.44	127	802	1.41	7.50	1320	3090	<0.02	0.0367	0.022	<0.001	<0.005	0.0042	0.002	<0.02	0.332	<0.00015	0.0597	0.0005	<0.00020	0.10	0.78					
BA-C-8	0.31	24.4	275	1.52	7.80	88.1	896	<0.02	0.0653	0.0370	<0.001	<0.005	0.0034	<0.01	<0.02	0.183	<0.00015	0.0056	0.0012	<0.00020	0.24	0.26					
BA-C-9	0.3	32.7	356	1.26	7.70	81.6	928	<0.02	0.05	0.0460	<0.001	<0.005	0.0035	<0.01	<0.02	0.194	<0.00015	0.0038	0.0015	<0.00020	0.39	0.76					
BA-C-10	0.31	24.8	283	1.53	7.80	83.3	844	<0.02	0.0583	0.037	<0.001	<0.005	0.0033	<0.01	<0.02	0.17	<0.00015	0.0059	0.0013	<0.00020	0.38	-0.18					
BA-C-11	0.29	64.2	719	0.977	7.70	163	1420	<0.02	<0.05	0.0930	<0.001	<0.005	<0.005	<0.01	<0.02	0.205	<0.00015	<0.01	<0.02	<0.00020	0.41	1.00					
BA-C-12	0.3	33.3	364	1.23	7.80	79.2	908	<0.02	0.042	0.072	<0.001	<0.005	0.002	<0.01	<0.02	0.181	<0.00015	0.004	0.0009	<0.00020	0.11	0.27					
BA-C-13	0.62	131	1180	0.888	7.50	364	2490	<0.02	0.034	0.0480	<0.001	<0.005	0.0028	<0.01	<0.02	0.319	<0.00015	0.0017	0.0039	<0.00020	0.16	1.00					
BA-C-14	0.54	157	1190	0.668	7.40	533	2700	<0.02	0.0285	0.045	<0.001	<0.005	0.0024	<0.01	<0.02	0.365	<0.00015	0.0017	0.0032	<0.00020	0.03	0.26					
BA-C-15	0.32	25.1	240	1.74	7.90	80.6	680	<0.02	<0.05	0.04	<0.001	<0.005	<0.025	<0.01	<0.02	0.085	<0.00015	<0.05	<0.10	<0.00020	1.1	1.00					
BA-C-16	0.29	21.9	330	1.81	7.90	78.4	880	<0.02	0.08	0.034	<0.001	<0.005	<0.005	<0.01	<0.02	0.144	<0.00015	<0.01	<0.02	<0.00020	0.52	1.60					
BA-C-17	0.19	24.8	147	0.672	7.90	101	492	<0.02	0.0345	0.029	<0.001	<0.005	0.0016	<0.01	<0.02	0.065	<0.00015	0.004	0.0005	<0.00020	0.05	-0.14					
BA-C-18	0.24	22.1	187	1.14	7.90	90.3	1160	<0.02	<0.05	0.0450	<0.001	<0.005	<0.005	<0.01	<0.02	0.086	<0.00015	<0.01	<0.02	<0.00020	0.04	0.38					
BA-C-19	0.25	27.9	255	1.09	7.80	87.7	760	<0.02	<0.05	0.0400	<0.001	<0.005	<0.005	<0.01	<0.02	0.101	<0.00015	<0.01	<0.02	<0.00020	0.04	0.95					
BA-C-20	0.22	25	213	0.839	7.70	95.8	700	<0.02	<0.05	0.0390	<0.001	<0.005	<0.005	<0.01	<0.02	0.083	<0.00015	<0.01	<0.02	<0.00020	0.09	0.93					
BA-C-21	0.24	26.9	233	1.04	7.70	87.2	620	<0.02	<0.05	0.0460	<0.001	<0.005	<0.005	<0.01	<0.02	0.106	<0.00015	<0.01	<0.02	<0.00020	0.12	1.1					
BA-C-22	0.24	27.8	273	0.88	7.80	99.1	860	<0.02	0.05	0.0320	<0.001	<0.005	<0.005	<0.01	<0.02	0.11	<0.00015	<0.01	<0.02	<0.00020	0.13	1.7					
BA-C-23	0.25	31	247	0.969	7.70	93.2	780	<0.02	<0.05	0.0410	<0.001	<0.005	<0.005	<0.01	<0.02	0.116	<0.00015	<0.01	<0.02	<0.00020	0.38	1.9					
BA-C-24	0.27	27.9	273	1.28	7.80	84.6	840	<0.02	0.05	0.0570	<0.001	<0.005	<0.005	<0.01	<0.02	0.139	<0.00015	<0.01	<0.02	<0.00020	0.08	1.9					
BA-C-25	0.25	26.1	247	1.13	7.90	83.4	580	<0.02	<0.05	0.0680	<0.001	<0.005	<0.005	<0.01	<0.02	0.107	<0.00015	<0.01	<0.02	<0.00020	0.46	1.4					
BA-C-26	0.27	24.1	353	1.47	8.00	72.4	820	<0.02	0.049	0.0880	<0.001	<0.005	0.0019	<0.01	<0.02	0.173	<0.00015	0.0046	0.0007	<0.00020	0.17	0.52					
BA-C-27	0.27	24.8	299	1.43	7.80	63.1	8048																				

Round 20																						
Landfill Wells	Results																			Field Results		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium			
CL-U-1	0.25	50.9	470	0.909	7.70	115	1290	<0.02	<0.05	0.0770	<0.001	<0.005	<0.005	<0.01	<0.02	0.202	<0.00015	<0.01	<0.02	<0.0002	0.75	1.3
CL-U-2	0.25	52.5	438	0.929	7.70	115	1020	<0.02	<0.05	0.0880	<0.001	<0.005	<0.005	<0.01	<0.02	0.191	<0.00015	<0.01	<0.02	<0.0002	0.90	1.3
CLW-1	0.22	32.7	323	1.05	7.80	60.7	812	<0.02	<0.05	0.0570	<0.001	<0.005	<0.005	<0.01	<0.02	0.173	<0.00015	<0.01	<0.02	<0.0002	0.66	1.5
CLW-2	0.26	44.4	512	1.13	7.70	91.2	1020	<0.02	<0.05	0.0750	<0.001	<0.005	<0.005	<0.01	<0.02	0.214	0.00016	<0.01	<0.02	<0.0002	0.33	1.2
CLW-3	0.28	34.9	379	1.27	7.70	95	896	<0.02	<0.05	0.0930	<0.001	<0.005	<0.005	<0.01	<0.02	0.197	<0.00015	<0.01	<0.02	<0.0002	0.47	1.5
CLW-4	0.27	30.7	346	1.44	7.80	82.2	848	<0.02	<0.05	0.0690	<0.001	<0.005	<0.005	<0.01	<0.02	0.19	<0.00015	<0.01	<0.02	<0.0002	0.22	0.9
CLW-5	0.32	30.0	366	1.8	7.70	83.4	828	<0.02	<0.05	0.0640	<0.001	<0.005	<0.005	<0.01	<0.02	0.150	<0.00015	<0.01	<0.02	<0.0002	0.60	0.55
CLW-6	0.27	28.9	346	1.48	7.70	83	844	<0.02	<0.05	0.0810	<0.001	<0.005	<0.005	<0.01	<0.02	0.182	<0.00015	<0.01	<0.02	<0.0002	0.48	1.4
CLW-7	0.21	38.4	375	0.994	7.70	65.1	932	<0.02	<0.05	0.0470	<0.001	<0.005	<0.005	<0.01	<0.02	0.165	<0.00015	<0.01	<0.02	<0.0002	0.49	0.67
CLW-8	0.22	35.2	326	1.04	7.80	64	848	<0.02	<0.05	0.0560	<0.001	<0.005	<0.005	<0.01	<0.02	0.170	<0.00015	<0.01	<0.02	<0.0002	0.13	1.3
CLW-9	0.32	24.2	291	1.99	8.10	81.8	800	<0.02	<0.05	0.027	<0.001	<0.005	<0.005	<0.01	<0.02	0.061	<0.00015	<0.01	<0.02	<0.0002	0.77	0.45
CL-U-3	0.23	50.7	423	0.822	7.80	111	1060	<0.02	<0.05	0.045	<0.001	<0.005	<0.005	<0.01	<0.02	0.185	<0.00015	<0.01	<0.02	<0.0002	0.61	0.66
Bottom Ash	Results																			Field Results		
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium			
BA-U-1	0.56	182	1100	0.688	7.40	714	3260	<0.02	<0.05	0.0550	<0.001	<0.005	<0.005	<0.01	<0.02	0.348	<0.00015	<0.01	<0.02	<0.0002	0.65	0.45
BA-U-2	0.32	85.3	849	0.664	7.60	93.3	1860	<0.02	<0.05	0.1260	<0.001	<0.005	<0.005	<0.01	<0.02	0.279	<0.00015	<0.01	<0.02	<0.0002	0.70	1
BAC-1	2.70	218	360	0.464	7.20	884	4880	0.0008	0.0181	0.052	<0.001	<0.005	0.0026	<0.01	<0.02	0.469	<0.00015	0.02	<0.02	<0.0002	0.50	1
BAC-2	5.89	184	1550	0.91	7.20	1810	6600	<0.02	0.0594	0.0200	<0.001	<0.005	<0.005	0.009	<0.02	0.386	<0.00015	0.12	0.02	<0.0002	0.42	0.64
BAC-3	5.35	283	1080	0.484	7.30	1090	7970	<0.02	0.0366	0.0440	<0.001	<0.005	0.0063	<0.01	<0.02	0.659	<0.00015	0.04	<0.02	<0.0002	0.52	0.85
BAC-4	0.65	66.4	778	1.02	7.60	523	1660	<0.02	0.0311	0.0520	<0.001	<0.005	0.002	<0.01	<0.02	0.26	<0.00015	0.02	<0.02	<0.0002	0.37	-0.33
BAC-5	0.77	78.3	549	0.932	7.60	529	1710	<0.02	0.0307	0.0340	<0.001	<0.005	0.0022	<0.01	<0.02	0.281	<0.00015	0.04	<0.02	<0.0002	0.14	0.21
BAC-6	4.5	89.2	511	0.99	7.60	1000	2520	<0.02	0.0294	0.0160	<0.001	<0.005	0.002	<0.01	<0.02	0.198	<0.00015	0.08	<0.02	<0.0002	0.61	-0.03
BAC-7	4.41	110	784	1.36	7.70	1120	3210	<0.02	0.034	0.018	<0.001	<0.005	0.0023	<0.01	<0.02	0.264	0.05	<0.02	<0.0002	0.62	1.1	
BAC-8	0.31	21.4	371	1.54	7.80	110	916	<0.02	0.0646	0.0340	<0.001	<0.005	0.0028	<0.01	<0.02	0.143	<0.00015	<0.01	<0.02	<0.0002	0.22	0.13
BAC-9	0.3	29.4	487	1.25	7.70	77.6	984	<0.02	0.0489	0.0430	<0.001	<0.005	0.0023	<0.01	<0.02	0.158	<0.00015	<0.01	<0.02	<0.0002	0.37	0.03
BAC-10	0.31	22.2	368	1.57	7.80	79.2	828	<0.02	0.0594	0.035	<0.001	<0.005	0.003	<0.01	<0.02	0.142	<0.00015	<0.01	<0.02	<0.0002	0.43	0.03
BAC-11	0.28	31.2	330	1.34	7.90	88.2	836	<0.02	0.05	0.0450	<0.001	<0.005	<0.005	<0.01	<0.02	0.148	<0.00015	<0.01	<0.02	<0.0002	0.18	0.34
BAC-12	0.3	31.5	342	1.25	7.80	76.5	848	<0.02	<0.05	0.061	<0.001	<0.005	<0.005	<0.01	<0.02	0.171	<0.00015	<0.01	<0.02	<0.0002	0.45	-0.10
BAC-13	1.03	172	1550	0.646	7.30	682	3480	<0.02	<0.05	0.0380	<0.001	<0.005	<0.005	<0.01	<0.02	0.39	<0.00015	<0.01	0.03	<0.0002	0.40	0.20
BAC-14	0.44	124	1000	0.718	7.50	376	2310	<0.02	<0.05	0.049	<0.001	<0.005	<0.005	<0.01	<0.02	0.29	<0.00015	<0.01	<0.02	<0.0002	0.68	-0.27
BAC-15	0.32	23.7	239	1.92	8.00	78.3	744	<0.02	0.07	0.038	<0.001	<0.005	<0.005	<0.01	<0.02	0.148	<0.00015	<0.01	<0.02	<0.0002	0.35	0.47
BAC-16	0.32	22.6	342	1.92	7.90	75.8	900	<0.02	0.09	0.036	<0.001	<0.005	<0.005	<0.01	<0.02	0.165	<0.00015	<0.01	<0.02	<0.0002	0.39	0.79
BAC-17	0.18	24.6	133	0.605	8.20	94.2	492	<0.02	<0.05	0.027	<0.001	<0.005	<0.005	<0.01	<0.02	0.06	<0.00015	<0.01	<0.02	<0.0002	0.26	0.86
BAC-18	0.26	22.8	189	1.29	8.00	83.2	636	<0.02	<0.05	0.0490	<0.001	<0.005	<0.005	<0.01	<0.02	0.116	<0.00015	<0.01	<0.02	<0.0002	0.018	0.09
BAC-19	0.27	28.1	238	1.15	7.90	84.3	720	<0.02	<0.05	0.0400	<0.001	<0.005	<0.005	<0.01	<0.02	0.128	<0.00015	<0.01	<0.02	<0.0002	0.41	0.02
BAC-20	0.24	25.7	211	0.896	8.00	91.1	604	<0.02	<0.05	0.0400	<0.001	<0.005	<0.005	<0.01	<0.02	0.104	<0.00015	<0.01	<0.02	<0.0002	0.40	0.06
BAC-21	0.26	27.5	237	1.08	7.70	83.8	612	<0.02	<0.05	0.0450	<0.001	<0.005	<0.005	<0.01	<0.02	0.129	<0.00015	<0.01	<0.02	<0.0002	0.33	-0.23
BAC-22	0.25	27.8	226	1.13	7.80	91.8	684	<0.02	0.05	0.0310	<0.001	<0.005	<0.005	<0.01	<0.02	0.114	<0.00015	<0.01	<0.02	<0.0002	0.18	0.84
BAC-23	0.28	30	263	1.19	7.90	85.3	776	<0.02	<0.05	0.0340	<0.001	<0.005	<0.005	<0.01	<0.02	0.136	<0.00015	<0.01	<0.02	<0.0002	0.66	0.21
BAC-24	0.29	29.3	282	1.42	7.90	81.1	816	<0.02	0.06	0.0550	<0.001	<0.005	<0.005	<0.01	<0.02	0.151	<0.00015	<0.01	<0.02	<0.0002	0.32	0.13
BAC-25	0.26	26.7	235	1.21	7.70	81.4	716	<0.02	0.05	0.0380	<0.001	<0.005	<0.005	<0.01	<0.02	0.121	<0.00015	<0.01	<0.02	<0.0002	0.33	0.33
BAC-26	0.28	23.3	265	1.6	8.00	62.2	732	<0.02	0.05	0.0690	<0.001	<0.005	<0.005	<0.01	<0.02	0.158	<0.00015	<0.01	<0.02	<0.0002	0.34	0.2
BAC-27	0.28	24.2	278	1.57	8.00	63	740	<0.02	0.05	0.0690	<0.001	<0.005	<0.005	<0.01	<0.02	0.161	<0.00015	<0.01	<0.02	<0.0002	0.	

Landfill Wells		Round 21																				Field Results									
		Results																				Field Results									
Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS			
CL-U-1	0.26	51.1	425	0.872	7.90 <td>108</td> <td>1000</td> <td><0.0005</td> <td>0.0482</td> <td>0.0820</td> <td><0.0005</td> <td><0.0002</td> <td>0.0018</td> <td><0.0005</td> <td><0.0005</td> <td>0.208</td> <td><0.00015</td> <td>0.0066</td> <td>0.0012</td> <td><0.0002</td> <td>47</td> <td>0.89</td> <td>CL-U-1</td> <td>15.71</td> <td>7.41</td> <td>-159</td> <td>1870</td> <td>0.0</td> <td>0.61</td> <td>1.19</td>	108	1000	<0.0005	0.0482	0.0820	<0.0005	<0.0002	0.0018	<0.0005	<0.0005	0.208	<0.00015	0.0066	0.0012	<0.0002	47	0.89	CL-U-1	15.71	7.41	-159	1870	0.0	0.61	1.19	
CL-U-2	0.26	56.5	421	0.906	7.80	108	1060	<0.0005	0.0266	0.0910	<0.0005	<0.0002	0.0022	<0.0005	<0.0005	0.204	<0.00015	0.004	0.0006	<0.0002	48	-0.12	CL-U-2	15.26	7.13	41	1890	0.0	0.72	1.21	
CLW-1	0.25	36.8	320	1.01	7.90	80	65	780	<0.0005	0.032	0.0620	<0.0005	<0.0002	0.0028	<0.0005	0.19	<0.00015	0.0038	0.0016	<0.0002	45	1.1	CLW-1	15.72	7.37	63	1510	0.0	0.68	9.66	
CLW-2	0.28	48.5	498	1.05	7.80	94	1140	<0.0005	0.0258	0.0790	<0.0005	<0.0002	0.0023	<0.0005	<0.0005	0.228	0.00016	0.0044	0.0007	<0.0002	72	0.44	CLW-2	15.55	7.47	65	2030	0.0	0.4	1.30	
CLW-3	0.31	38.0	367	1.2	7.80	94.4	932	<0.0005	0.0404	0.0980	<0.0005	<0.0002	0.002	<0.0005	<0.0005	0.211	<0.00015	0.0049	0.0006	<0.0002	80	1	CLW-3	16.63	7.49	-126	1740	0.0	0.52	1.11	
CLW-4	0.29	33.1	326	1.36	8.00	81.7	876	<0.0005	0.0331	0.0720	<0.0005	<0.0002	0.0022	<0.0005	<0.0005	0.199	<0.00015	0.0048	0.0005	<0.0002	26	0.62	CLW-4	17.07	7.53	47	1630	0.0	1.84	1.05	
CLW-5	0.33	31.9	364	1.7	8.00	83	864	<0.0005	0.0251	0.0650	<0.0005	<0.0002	0.0029	<0.0005	<0.0005	0.202	<0.00015	0.0046	0.0005	<0.0002	45	0.86	CLW-5	20.37	7.44	-138	1720	0.0	0.28	1.10	
CLW-6	0.3	30.9	320	1.5	8.00	81	876	<0.0005	0.0187	0.0890	<0.0005	<0.0002	0.0023	<0.0005	<0.0005	0.197	<0.00015	0.0054	0.0005	<0.0002	55	0.4	CLW-6	16.57	7.5	-146	1620	0.0	0.59	1.04	
CLW-7	0.23	42.0	363	0.966	7.80	64.9	976	<0.0005	0.0251	0.0510	<0.0005	<0.0002	0.0006	<0.0005	<0.0005	0.182	<0.00015	0.0034	0.0008	<0.0002	45	0.76	CLW-7	15.92	7.41	-67	1630	0.0	0.72	1.04	
CLW-8	0.25	40.8	350	0.996	7.80	63.5	920	<0.0005	0.0292	0.0620	<0.0005	<0.0002	0.0016	<0.0005	<0.0005	0.192	<0.00015	0.0037	0.0005	<0.0002	50	1.2	CLW-8	15.51	7.45	14	1530	0.0	0.44	0.98	
CLW-9	0.32	23.8	295	1.86	8.00	80.7	860	<0.0005	0.0425	0.047	<0.0005	<0.0002	0.0026	<0.0005	<0.0005	0.161	<0.00015	0.0053	0.001	<0.0002	40	0.3	CLW-9	14.58	7.65	-207	1540	0.0	0.35	0.985	
CL-U-3	0.24	55.1	400	0.773	7.80	103	1040	<0.0005	0.0216	0.047	<0.0005	<0.0002	0.0024	<0.0005	<0.0005	0.200	<0.00015	0.0034	0.0006	<0.0002	1.1	0.46	CL-U-3	15.88	7.46	-84	1870	0.0	0.43	1.20	
Bottom Ash		Results																				Field Results									
		Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228	Temp	pH	REDOX	Conductance	Turbidity (NTUs)	DO	TDS	
BA-U-1	0.65	200	1160	0.58	7.50	724	3780	<0.0005	0.0214	0.0600	<0.0005	<0.0002	0.0019	0.0015	<0.0005	0.375	<0.00015	0.0027	0.007	<0.0002	48	-0.84	BA-U-1	16.44	7.34	87	4930	0	0.52	3.15	
BA-U-2	0.33	93.3	863	0.627	7.80	95.4	2040	<0.0005	0.0207	0.1360	<0.0005	<0.0002	0.0028	<0.0005	<0.0005	0.306	<0.00015	0.0017	0.004	<0.0002	46	-0.26	BA-U-2	15.86	7.35	-17	3110	0	0.55	1.99	
BAC-1	3.08	270	1970	0.476	7.40	1370	5810	0.0006	0.0157	0.05	<0.0005	<0.0002	0.0092	0.0013	0.0007	0.543	<0.00015	0.0146	0.0093	<0.0002	1.3	2.8	BAC-1	15.89	7.08	-2	8630	0	0.56	5.43	
BAC-2	6.92	204	1700	1.48	7.50	2190	6490	<0.0005	0.0713	0.1050	<0.0005	<0.0002	0.0089	<0.0005	0.0007	0.433	<0.00015	0.152	0.0172	<0.0002	30	1.7	BAC-2	16.16	7.2	91	9980	0	1.13	6.29	
BAC-3	7.71	233	2380	1.33	7.50	3360	9300	<0.0005	0.0798	0.1050	<0.0005	<0.0002	0.0096	0.0005	<0.0005	0.789	<0.00015	0.0862	0.0231	<0.0002	78	1.6	BAC-3	16.63	7.12	105	14400	0	0.71	8.93	
BAC-4	0.75	73.7	575	0.967	7.90	431	1700	<0.0005	0.0323	0.0510	<0.0005	<0.0002	0.0043	<0.0005	<0.0005	0.269	<0.00015	0.0275	0.001	<0.0002	37	1.1	BAC-4	16.38	7.49	-28	2900	0	0.39	1.86	
BAC-5	0.79	76.7	548	0.902	7.80	544	1860	<0.0005	0.0305	0.0330	<0.0005	<0.0002	0.0028	<0.0005	<0.0005	0.275	<0.00015	0.0391	0.0009	<0.0002	22	0.83	BAC-5	17.04	7.48	17	2990	0	0.39	1.91	
BAC-6	4.42	94	529	1	7.80	994	2230	<0.0005	0.0288	0.0150	<0.0005	<0.0002	0.0014	0.0007	<0.0005	0.2	<0.00015	0.0869	0.0019	<0.0002	30	1.2	BAC-6	14.52	7.29	150	3850	0	0.45	2.46	
BAC-7	3.51	131	846	1.12	7.80	1240	3180	<0.0005	0.0269	0.021	<0.0005	<0.0002	0.0016	0.0047	<0.0005	0.272	<0.00015	0.0612	0.0087	<0.0002	27	1.1	BAC-7	16.7	7.51	81	5080	0	0.36	1.21	
BAC-8	0.28	28.6	314	1.39	8.00	76.8	840	<0.0005	0.0499	0.0430	<0.0005	<0.0002	0.0019	<0.0005	<0.0005	0.149	<0.00015	0.0044	0.0006	<0.0002	37	0.88	BAC-8	14.72	7.47	63	1590	0.0	0.73	1.02	
BAC-9	0.3	31.7	343	1.22	7.90	78.3	996	<0.0005	0.0481	0.0450	<0.0005	<0.0002	0.0017	<0.0005	<0.0005	0.13	<0.00015	0.0037	0.0008	<0.0002	40	1.20	BAC-9	14.55	7.40	77	1750	0.0	1.40	1.12	
BAC-10	0.31	23.8	273	1.53	8.00	78.9	840	<0.0005	0.0585	0.036	<0.0005	<0.0002	0.0021	<0.0005	<0.0005	0.113	<0.00015	0.006	0.0007	<0.0002	40	0.28	BAC-10	13.90	7.34	140	1540	0.0	1.03	0.988	
BAC-11	0.25	36.3	380	1.02	7.80	102	1010	<0.0005	0.0407	0.0520	<0.0005	<0.0002	0.0019	<0.0005	<0.0005	0.103	<0.00015	0.004	0.0008	<0.0002	11	0.84	BAC-11	15.13	7.61	226	1840	0.0	1.57	1.18	
BAC-12	0.27	26.4	240	1.16	8.00	74	780	<0.0005	0.0342	0.051	<0.0005	<0.0002	0.0019	<0.0005	<0.0005	0.146	<0.00015	0.0043	0.0008	<0.0002	19	-0.23	BAC-12	15.26	7.39	37	1410	0.0	1.05	0.905	
BAC-13	1.06	191	1600	1.32	7.70	725	3480	<0.0005	0.0343	0.0360	<0.0005	<0.0002	0.0026	<0.0005	<0.0005	0.398	<0.00015	0.0031	0.0066	<0.0002	41	2.10	BAC-13	14.72	7.19	169	6530	0.0	2.05	4.12	
BAC-14	0.39	93.1	847	0.886	7.50	300	1900	<0.0005	<0.05	0.042	<0.0005	<0.0002	0.005	<0.0005	<0.02	0.253	<0.00015	<0.01	<0.02	<0.0002	39	0.87	BAC-14	15.20	7.50	190	3240	0.0	1.81	2.08	
BAC-15	0.31	27.9	276	1.59	8.10	76.9	780	<0.0005	0.0586	0.049	<0.0005	<0.0002	0.0011	<0.0005	<0.02	0.163	<0.00015	0.0062	0.0005	<0.0002	42	1.20	BAC-15	14.69	7.52	83	1490	0.0	0.68	0.953	
BAC-16	0.32	22.7	331	1.85	7.80	76.5	1010	<0.0005	0.0682	0.036	<0.0005	<0.0002	0.0026	<0.0005	<0.0005	0.129	<0.00015	0.0059	0.0008	<0.0002	45	0.85	BAC-16	14.84	7.44	34	1760	0.0	1.07	1.12	
BAC-17	0.18	25.9	133	0.536	8.00	91.7	592	<0.0005	0.0325	0.027	<0.0005	<0.0002	0.0009	<0.0005	<0.0005	0.022	<0.00015	0.0038	<0.0005	<0.0002	35	0.43	BAC-17	15.23	7.58	-24	943	0.0	0.40	0.604	
BAC-18	0.25	22.3	188	1.18	8.00	86.7	73	732	<0.0005	0.0457	0.0450	<0.0005	<0.0002	0.0015	<0.0005	<0.0005	0.117	<0.00015	0.0042	0.0005	<0.0002	34	0.48	BAC-18	15.48	7.53	-35	1250	0.0	0.48	0.798
BAC-19	0.26	27.1	225	1.15	8.00	85.9	720	<0.0005	0.0436	0.0410	<0.0005	<0.0002	0.0016	<0.0005	<0.0005	0.13	<0.00015	0.0042	0.0007	<0.0002	25	-0.28	BAC-19	15.19							

Round 22																				
Landfill Wells	Results																			
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
CL-U-1	0.25	52.4	432	0.729	7.80	119	1120	<0.02	0.05	0.0730	<0.001	<0.005	<0.005	<0.01	<0.02	0.202	<0.00015	<0.01	<0.02	<0.0002
CL-U-2	0.25	52.1	404	0.815	7.70	113	1070	<0.02	<0.05	0.0860	<0.001	<0.005	<0.005	<0.01	<0.02	0.185	<0.00015	<0.01	<0.02	<0.0002
CLW-1	0.22	32.7	306	0.909	7.80	58.9	844	<0.02	<0.05	0.0570	<0.001	<0.005	<0.005	<0.01	<0.02	0.165	<0.00015	<0.01	<0.02	0.11
CLW-2	0.26	46.0	472	0.984	7.80	90.4	1170	<0.02	<0.05	0.0770	<0.001	<0.005	<0.005	<0.01	<0.02	0.211	0.00016	<0.01	<0.02	0.32
CLW-3	0.28	34.6	356	1.13	7.80	92.2	1020	<0.02	<0.05	0.0920	<0.001	<0.005	<0.005	<0.01	<0.02	0.188	<0.00015	<0.01	<0.02	<0.0002
CLW-4	0.27	30.1	327	1.24	7.90	82	932	<0.02	<0.05	0.0670	<0.001	<0.005	<0.005	<0.01	<0.02	0.185	<0.00015	<0.01	<0.02	<0.0002
CLW-5	0.32	29.6	345	1.66	7.90	81.3	948	<0.02	<0.05	0.0640	<0.001	<0.005	<0.005	<0.01	<0.02	0.186	<0.00015	<0.01	<0.02	<0.0002
CLW-6	0.28	28.7	318	1.46	7.60	79.2	900	<0.02	<0.05	0.0810	<0.001	<0.005	<0.005	<0.01	<0.02	0.182	<0.00015	<0.01	<0.02	<0.0002
CLW-7	0.22	39.6	346	0.889	7.70	63.6	916	<0.02	<0.05	0.0490	<0.001	<0.005	<0.005	<0.01	<0.02	0.168	<0.00015	<0.01	<0.02	<0.0002
CLW-8	0.22	35.4	312	0.96	7.80	61.9	900	<0.02	<0.05	0.0570	<0.001	<0.005	<0.005	<0.01	<0.02	0.167	<0.00015	<0.01	<0.02	<0.0002
CLW-9	0.3	22	285	1.75	8.00	77.8	796	<0.0005	0.0396	0.043	<0.0005	<0.0002	0.0021	<0.0005	<0.0005	0.150	<0.00015	0.0053	0.0006	<0.0002
CL-U-3	0.23	50.6	390	0.679	7.70	110	1040	<0.02	<0.05	0.044	<0.001	<0.005	<0.005	<0.01	<0.02	0.184	<0.00015	<0.01	<0.02	<0.0002
Bottom Ash	Results																			
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
BA-U-1	0.71	206	1220	0.549	7.50	823	3410	<0.002	<0.05	0.0520	<0.001	<0.005	<0.005	<0.01	<0.02	0.367	<0.00015	<0.01	0.02	<0.0002
BA-U-2	0.32	90.1	839	0.63	7.60	95	1780	<0.002	<0.05	0.1250	<0.001	<0.005	<0.005	<0.01	<0.02	0.289	<0.00015	<0.01	<0.02	<0.0002
BAC-1	2.49	154	1190	0.556	7.60	746	354	<0.002	<0.05	0.159	<0.001	<0.005	0.015	<0.01	<0.02	0.311	<0.00015	0.04	0.02	<0.0002
BAC-2	6.97	221	1730	1.31	7.30	2340	6680	<0.10	<0.25	0.0260	<0.005	<0.025	<0.025	<0.05	<1.0	0.428	0.00015	0.16	<0.10	<0.0002
BAC-3	6.03	156	1870	2.37	7.60	2720	7280	<0.10	<0.25	0.0250	<0.005	<0.025	0.028	<0.05	<1.0	0.549	<0.00015	0.11	<0.10	<0.0002
BAC-4	0.9	71.8	539	0.645	7.80	380	1660	<0.02	<0.05	0.0550	<0.001	<0.005	0.015	<0.01	<0.02	0.28	<0.00015	0.03	<0.02	<0.0002
BAC-5	0.94	84.7	525	0.833	7.70	551	1980	<0.02	<0.05	0.0340	<0.001	<0.005	<0.005	<0.01	<0.02	0.317	<0.00015	0.04	<0.02	<0.0002
BAC-6	4.88	101	521	0.736	7.80	1020	2450	<0.02	<0.05	0.0160	<0.001	<0.005	<0.005	<0.01	<0.02	0.23	<0.00015	0.09	<0.02	<0.0002
BAC-7	4.32	144	776	0.807	7.80	1280	3180	<0.02	<0.05	0.024	<0.001	<0.005	<0.005	<0.01	<0.02	0.316	<0.00015	0.06	<0.02	<0.0002
BAC-8	0.29	22.7	266	1.41	7.90	82	872	<0.02	0.06	0.0360	<0.001	<0.005	<0.005	<0.01	<0.02	0.139	<0.00015	<0.01	<0.02	<0.0002
BAC-9	0.28	29.3	341	1.16	7.80	77.1	932	<0.02	0.05	0.0430	<0.001	<0.005	<0.005	<0.01	<0.02	0.153	<0.00015	<0.01	<0.02	<0.0002
BAC-10	0.32	23.9	262	1.54	8.00	80.3	796	<0.02	0.06	0.036	<0.001	<0.005	<0.005	<0.01	<0.02	0.15	<0.00015	<0.01	<0.02	<0.0002
BAC-11	0.33	33.5	313	0.957	7.90	101	876	<0.02	<0.05	0.0470	<0.001	<0.005	<0.005	<0.01	<0.02	0.15	<0.00015	<0.01	<0.02	<0.0002
BAC-12	0.27	24.8	217	1.24	8.00	71.3	880	<0.02	0.05	0.047	<0.001	<0.005	<0.005	<0.01	<0.02	0.128	<0.00015	<0.01	<0.02	<0.0002
BAC-13	1.19	203	1680	0.786	7.50	795	4350	<0.02	<0.05	0.0330	<0.001	<0.005	<0.005	<0.01	<0.02	0.41	<0.00015	<0.01	0.02	<0.0002
BAC-14	0.41	80.7	660	0.805	7.80	243	1780	<0.02	<0.05	0.04	<0.001	<0.005	<0.005	<0.01	<0.02	0.251	<0.00015	<0.01	<0.02	<0.0002
BAC-15	0.27	20	242	1.83	7.90	77.2	816	<0.02	0.06	0.034	<0.001	<0.005	<0.005	<0.01	<0.02	0.125	<0.00015	<0.01	<0.02	<0.0002
BAC-16	0.32	22.4	306	1.84	8.00	76.7	900	<0.02	0.08	0.036	<0.001	<0.005	<0.005	<0.01	<0.02	0.166	<0.00015	<0.01	<0.02	<0.0002
BAC-17	0.17	22.1	130	0.425	8.10	98.8	544	<0.02	<0.05	0.026	<0.001	<0.005	<0.005	<0.01	<0.02	0.097	<0.00015	<0.01	<0.02	<0.0002
BAC-18	0.26	22.8	193	1.17	8.10	87.2	632	<0.02	<0.05	0.0440	<0.001	<0.005	<0.005	<0.01	<0.02	0.111	<0.00015	<0.01	<0.02	<0.0002
BAC-19	0.27	27.9	240	1.13	8.00	84.5	748	<0.02	<0.05	0.0390	<0.001	<0.005	<0.005	<0.01	<0.02	0.129	<0.00015	<0.01	<0.02	<0.0002
BAC-20	0.25	27.6	212	0.817	8.00	96.5	748	<0.02	<0.05	0.0460	<0.001	<0.005	<0.005	<0.01	<0.02	0.115	<0.00015	<0.01	<0.02	<0.0002
BAC-21	0.26	25.4	200	1.04	8.00	78.3	676	<0.02	<0.05	0.0350	<0.001	<0.005	<0.005	<0.01	<0.02	0.113	<0.00015	<0.01	<0.02	<0.0002
BAC-22	0.25	29	228	0.997	8.00	88.4	764	<0.02	<0.05	0.0310	<0.001	<0.005	<0.005	<0.01	<0.02	0.121	<0.00015	<0.01	<0.02	<0.0002
BAC-23	0.27	30.2	265	1.11	8.00	84.9	832	<0.02	<0.05	0.0390	<0.001	<0.005	<0.005	<0.01	<0.02	0.143	<0.00015	<0.01	<0.02	<0.0002
BAC-24	0.28	28.1	275	1.28	7.90	78.8	880	<0.02	0.05	0.0540	<0.001	<0.005	<0.005	<0.01	<0.02	0.159	<0.00015	<0.01	<0.02	<0.0002
BAC-25	0.25	26.7	204	1.06	8.00	78.6	696	<0.02	<0.05	0.0380	<0.001	<0.005	<0.005	0.01	<0.02	0.119	<0.00015	<0.01	<0.02	<0.0002
BAC-26	0.26	25.3	297	1.42	8.00	61.6	812	<0.02	0.05	0.0710	<0.001	<0.005	<0.005	<0.01	<0.02	0.172	<0.00015	<0.01	<0.02	<0.0002
BAC-27	0.27	24.6	286	1.44	8.00	61.3	812	<0.02	0.05	0.0670	<0.001	<0.005	<0.005	0.01	<0.02	0.169	<0.00015	<0.01	<0.02	<0.0002
BAC-28	0.27	25.8	298	1.35	8.00	62.9	868	<0.02	<0.05	0.0650	<0.001	<0.005	<0.005	<0.01	<0.02	0.175	<0.00015	<0.01	<0.02	<0.0002
BAC-29	0.28	43	453	0.935	8.10	91.4	1110	<0.02	<0.05	0.0490	<0.001	<0.005	<0.005	<0.01	<0.02	0.207	<0.00015	<0.01	<0.02	<0.0002
BAC-30	0.28	48.6	458	1.17	8.00	129	1160	<0.02	<0.05	0.0600	<0.001	<0.005	<0.005	<0.01	<0.02	0.198	<0.00015	<0.01	<0.02	<0.0002
BAC-31	0.36	123	1040	0.632	7.70	296	2300	<0.02	<0.05	0.0740	<0.001	<0.005	<0.005	<0.01	<0.02	0.321	<0.00015	<0.01	<0.02	<0.0002
BAC-32	0.26	21.4	239	1.51	8.00	59.3	712	<0.02	0.05	0.0610	<0.001	<0.005	<0.005	<0.01	<0.02	0.158	<0.00015	<0.01	<0.02	<0.0002
BAC-33	0.27	32	363	1.19	8.00	71.8	928	<0.02	<0.05	0.0860	<0.001	<0.005	<0.							

Round 23																													
Results																													
Landfill Wells	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228							
CL-U-1	0.26	64.8	464	0.784	7.80	121	1120	<0.0005	0.0451	0.0760	<0.0005	<0.0002	0.0018	<0.0005	<0.0005	0.205	<0.00016	0.0041	<0.0007	<0.0002	0.56	0.72							
CL-U-2	0.26	56.2	397	0.814	7.80	114	1040	<0.0005	0.0255	0.0910	<0.0005	<0.0002	0.0018	<0.0005	<0.0005	0.199	<0.00016	0.0035	<0.0007	<0.0002	0.53	0.51							
CLW-1	0.24	34.6	299	0.914	7.80	58.5	860	<0.0005	0.032	0.0590	<0.0005	<0.0002	0.0018	<0.0005	<0.0005	0.173	<0.00016	0.0039	0.0007	<0.0002	0.37	0.80							
CLW-2	0.28	58.2	480	1.01	7.80	93.8	1110	<0.0005	0.0276	0.0840	<0.0005	<0.0002	0.0022	<0.0005	<0.0005	0.227	<0.00016	0.0039	0.0007	<0.0002	0.58	0.44							
CLW-3	0.3	37.0	355	1.18	7.90	93.2	904	<0.0005	0.0406	0.0980	<0.0005	<0.0002	0.0019	<0.0005	<0.0005	0.199	<0.00016	0.0048	<0.0007	<0.0002	0.79	0.77							
CLW-4	0.29	38.3	326	1.33	8.00	80.8	888	<0.0005	0.0328	0.0720	<0.0005	<0.0002	0.0021	<0.0005	<0.0005	0.194	<0.00016	0.0045	<0.0007	<0.0002	0.28	0.82							
CLW-5	0.33	31.4	343	1.67	7.90	82.1	904	<0.0005	0.0245	0.0660	<0.0005	<0.0002	0.0026	<0.0005	<0.0005	0.195	<0.00016	0.0042	<0.0007	<0.0002	0.35	0.69							
CLW-6	0.3	30.4	317	1.47	7.80	79.5	796	<0.0005	0.0175	0.0880	<0.0005	<0.0002	0.002	<0.0005	<0.0005	0.187	<0.00016	0.005	<0.0007	<0.0002	0.59	1							
CLW-7	0.24	49.5	331	0.902	7.80	62.4	856	<0.02	<0.05	0.0560	<0.002	<0.005	<0.005	<0.01	<0.0005	0.197	<0.00016	<0.01	<0.03	<0.0002	0.19	0.4							
CLW-8	0.23	44.9	301	0.933	8.00	61.1	804	<0.02	<0.05	0.0660	<0.002	<0.005	<0.005	<0.01	<0.0005	0.202	<0.00016	<0.01	<0.03	<0.0002	0.26	0.26							
CLW-9	0.33	24	276	1.64	7.90	76.1	812	<0.0005	0.0414	0.047	<0.0005	<0.0002	0.002	<0.0005	<0.0005	0.152	<0.00016	0.0051	0.0019	<0.0002	0.13	0.28							
CL-U-3	0.24	53.6	389	0.708	7.80	112	992	<0.0005	0.021	0.048	<0.0005	<0.0002	0.0021	<0.0005	<0.0005	0.188	<0.00016	0.003	<0.0007	<0.0002	0.52	1							
Field Results																													
Bottom Ash	Results																			Field Results									
	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226	Radium 228							
BA-U-1	0.78	232	1110	0.613	7.50	794	3330	<0.0005	0.0222	0.0540	<0.0005	<0.0002	0.0018	0.0016	<0.0005	0.378	<0.00016	0.0028	0.007	<0.0002	0.32	0.22							
BA-U-2	0.36	114	914	0.532	7.50	123	1980	<0.0005	0.0206	0.1410	<0.0005	<0.0002	0.0042	<0.0005	<0.0005	0.321	<0.00016	0.0015	0.0047	<0.0002	0.43	0.82							
BAC-1	5.42	241	1720	0.644	7.20	1510	5340	<0.02	<0.05	0.084	<0.002	<0.005	<0.005	<0.01	<0.02	0.4	<0.00016	0.1	<0.03	<0.0002	0.60	1.4							
BAC-2	8.57	181	1720	2.27	7.20	1770	6850	<0.10	<0.25	<0.025	<0.010	<0.025	<0.025	<0.05	<1.0	0.434	<0.00016	0.16	<0.15	<0.0002	0.37	0.86							
BAC-3	6.72	319	2650	1.51	7.50	3540	9900	<0.10	<0.25	0.0260	<0.010	<0.025	<0.025	<0.05	<1.0	0.750	<0.00016	<0.05	<0.15	<0.0002	0.21	0.67							
BAC-4	1.01	86.8	559	0.879	7.70	382	1680	<0.10	<0.25	0.0610	<0.010	<0.025	<0.025	<0.05	<1.0	0.322	<0.00016	<0.05	<0.15	<0.0002	0.16	0.41							
BAC-5	1.04	99.6	535	0.789	7.70	559	1970	<0.10	<0.25	0.0380	<0.010	<0.025	<0.025	<0.05	<1.0	0.332	<0.00016	<0.05	<0.15	<0.0002	0.21	1.1							
BAC-6	5.29	118	525	1.08	7.80	1000	2500	<0.10	<0.25	<0.025	<0.010	<0.025	<0.025	<0.05	<1.0	0.274	<0.00016	0.07	<0.15	<0.0002	0.23	2.1							
BAC-7	5.47	167	711	1.04	7.80	1380	1390	<0.10	<0.25	0.026	<0.010	<0.025	<0.025	<0.05	<1.0	0.364	<0.00016	0.05	<0.15	<0.0002	0.12	-0.02							
BAC-8	0.26	34.5	328	1.25	8.00	68.3	900	<0.02	<0.05	0.0500	<0.002	<0.005	<0.005	<0.01	<0.0005	0.165	<0.00016	<0.01	<0.03	<0.0002	0.21	-0.14							
BAC-9	0.29	35.6	338	1.19	8.00	76.1	912	<0.02	<0.05	0.0480	<0.002	<0.005	<0.005	<0.01	<0.0005	0.176	<0.00016	<0.01	<0.03	<0.0002	0.35	0.04							
BAC-10	0.3	26.1	240	1.42	8.10	72.9	812	<0.02	<0.06	0.037	<0.002	<0.005	<0.005	<0.01	<0.0005	0.166	<0.00016	<0.01	<0.03	<0.0002	0.22	-0.33							
BAC-11	0.26	36.5	347	0.983	7.80	101	884	<0.02	<0.05	0.0490	<0.0005	<0.002	0.001	<0.0005	0.0006	0.165	<0.00016	0.0038	0.0009	<0.0002	0.25	0.27							
BAC-12	0.29	32.8	264	1.13	7.90	68.9	828	<0.02	<0.05	0.059	<0.002	<0.005	<0.005	<0.01	<0.0005	0.166	<0.00016	<0.01	<0.03	<0.0002	0.40	-0.55							
BAC-13	1.25	238	1780	0.817	7.40	821	4300	<0.10	<0.25	0.0380	<0.0005	<0.0002	0.0018	<0.0005	0.0014	0.478	<0.00016	0.0032	0.0093	<0.0002	0.27	0.04							
BAC-14	0.35	72.9	678	1.13	7.60	232	1640	<0.10	<0.25	0.44	<0.0005	<0.0002	0.0014	<0.0005	0.0008	0.248	<0.00016	0.0038	0.0017	<0.0002	0.49	0.24							
BAC-15	0.26	30.5	275	1.32	8.00	71.9	812	<0.02	<0.05	0.046	<0.002	<0.005	<0.005	<0.01	<0.0005	0.163	<0.00016	<0.01	<0.03	<0.0002	0.19	0.78							
BAC-16	0.35	26.0	284	1.69	8.00	70.9	932	<0.10	<0.25	0.041	<0.002	<0.005	<0.005	<0.01	<0.0005	0.169	<0.00016	<0.01	<0.03	<0.0002	0.07	0.36							
BAC-17	<0.25	28.2	113	0.405	8.10	83.1	544	<0.10	<0.25	0.03	<0.002	<0.010	<0.025	<0.025	<0.05	<0.10	0.1	<0.00016	<0.05	<0.15	<0.0002	1.10							
BAC-18	<0.26	26.3	178	1.04	8.10	80.4	636	<0.02	<0.05	0.0560	<0.002	<0.005	<0.005	<0.01	<0.0005	0.118	<0.00016	<0.01	<0.03	<0.0002	0.24	0.3							
BAC-19	<0.26	32.3	231	1.07	7.90	79.6	696	<0.02	<0.05	0.0430	<0.002	<0.005	<0.005	<0.01	<0.0005	0.138	<0.00016	<0.01	<0.03	<0.0002	0.14	0.01							
BAC-20	<0.25	30.3	217	0.745	8.20	82.3	692	<0.10	<0.25	0.060	<0.010	<0.025	<0.025	<0.05	<0.10	0.100	<0.00016	<0.05	<0.15	<0.0002	0.20	0.39							
BAC-21	<0.25	29	213	0.938	8.10	75.3	716	<0.10	<0.25	0.0400	<0.010	<0.025	<0.025	<0.05	<0.10	0.100	<0.00016	<0.05	<0.15	<0.0002	0.10	0.46							
BAC-22	<0.25	33.8	248	0.866	7.90	87.2	752	<0.10	<0.25	0.0360	<0.010	<0.025	<0.025	<0.05	<0.10	0.100	<0.00016	<0.05	<0.15	<0.0002	0.23	0.69							
BAC-23	<0.25	33.7	271	1	7.90	81.2	780	<0.10	<0.25	0.0410	<0.010	<0.025	<0.025	<0.05	<0.10	0.100	<0.00016	<0.05	<0.15	<0.0002	0.14	0.74							
BAC-24	<0.26	31.9	261	1.13	7.80	76.2	864	<0.10	<0.25	0.0620	<0.010	<0.025	<0.025	<0.05	<0.10	0.100	<0.00016	<0.05	<0.15	<0.0002	0.19	0.78							
BAC-25	<0.25	27.9	203	1.01	7.90	73	728	<0.10	<0.25	0.0440	<0.010	<0.025	<0.025	<0.05	<0.10	0.100	<0.00016	<0.05	<0.15	<0.0002	0.13	0.03							
BAC-26	0.3	29	305	1.4	7.90	62.7	740	<0.02	<0.05	0.0780	<0.0005	<0.0002	0.0011	<0.0005	0.0005	0.172	<0.00016	0.0038	<0.0007	<0.0002	0.31	-0.3							
BAC-27	0.3	29.6	312	1.41	7.90	62.8	800	<0.02	<0.05	0.0770	<0.0005	<0.0002	0.0011	<0.0005	0.001	0.175	<0.00016	0.0042	<0.0007	<0.0002	0.40	-0.52							
BAC-28	0.3	28.9	305	1.4	7.90	64.4	800	<0.02	<0.05	0.0710	<0.0005	<0.0002	0.0016	<0.0005	0.0006	0.178	<0.00016	0.0041	<0.0007	<0.0002	0.38	-0.48							
BAC-29	0.31	48.1	348	1.26	7.90	97.4	1090	<0.02	<0.05	0.0540	<0.0005	<0.0002	0.0012	<0.0005	0.0006	0.207	<0.00016	0.0036	0.0011	<0.0002	0.22	0.53							
BAC-30	0.32	65.6	514	1.20	7.90	155	1300	<0.02	<0.05	0.0670	<0.0005	<0.0002	0.0011	<0.0005	0.0006	0.212	<0.00016	0.0035	0.0014	<0.0002	0.30	0.88							
BAC-31	0.43	160	1290	0.735	7.50	402	2500	<0.02	<0.05	0.0700	<0.0005	<0.0002	0.0018	<0.0005	0.0008	0.344	<0.00016	0.0023	0.0042	<0.0002	0.51	0.31							
BAC-32	0.25	23.7	222	1.4	8.00	57.9	780	<0.10	<0.25	0.050	<0.002	<0.005	<0.005	<0.01	<0.0005	0.169	<0.00016	<0.01	<0.03	<0.0002	0.08	0.58							
BAC-33	<0.25	32.9	314	1.15	7.90	69.3	924	<0.10	<0.25	0.0860	<0.010	<0.025	<0.025	<0.05	<0.10	0.122	<0.00016	<0.05	<0.15	<0.0002	0.24	0.87							
BAC-34	<0.25	25.3	280	1.22	8.00	56.6	784	<0.10	<0.25	0.078	<0.010	<0.025	<0.025	<0.05	<0.10	0.100	<0.00016	<0.05	<0.15	<0.0002	0.20	0.86							
BAC-35	<0.25	28.8	302	1.26	8.00	64.2	840	<0.10	<0.25	0.0790	<0.010	<0.025	<0.025	<0.05	<0.10	0.100	<0.00016	<0.05	<0.15	<0.									

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

January 16, 2025

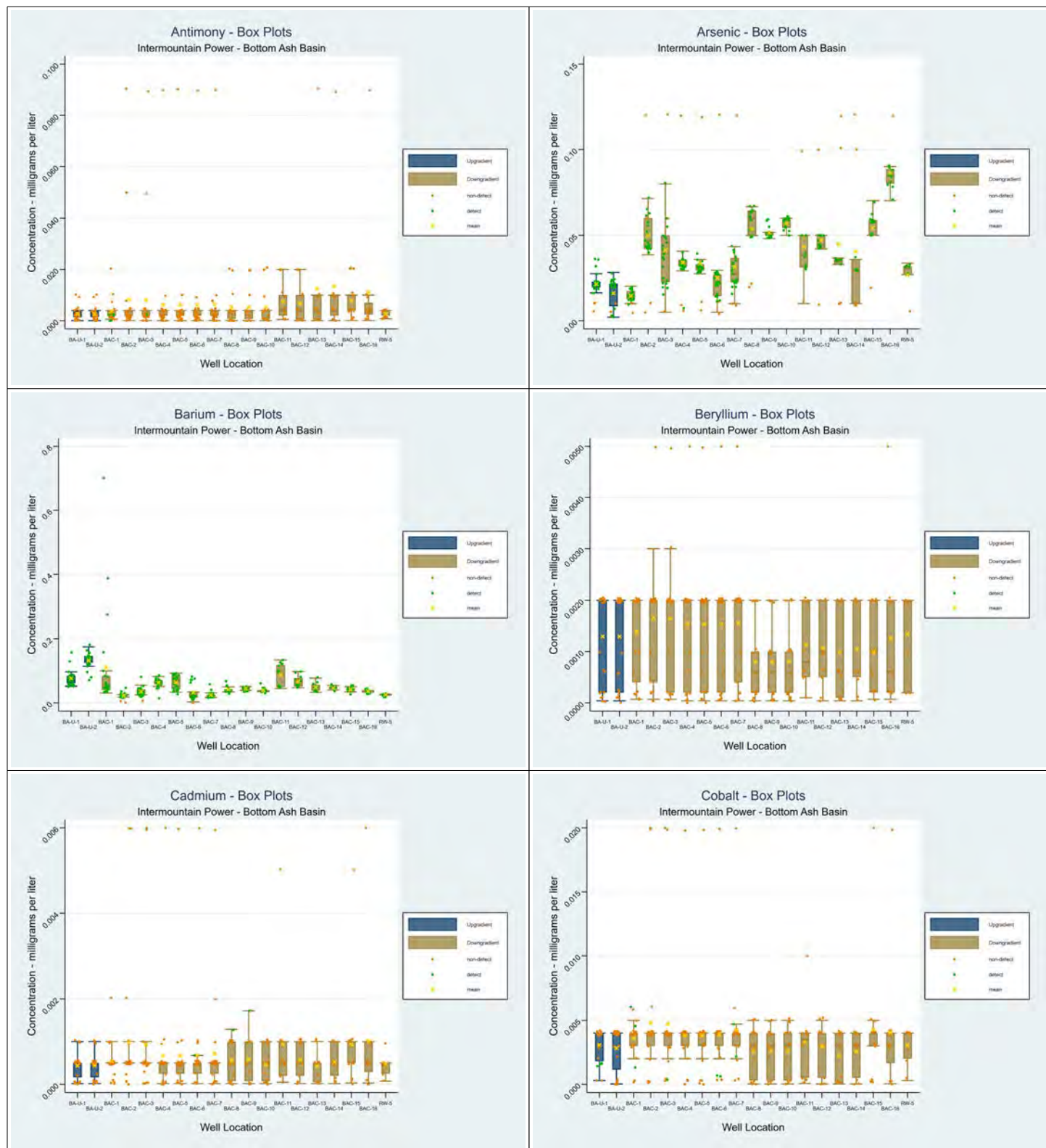
ATTACHMENT 3 BOX PLOTS

ATTACHMENT 3. Box Plots - CCR Appendix IV Parameters

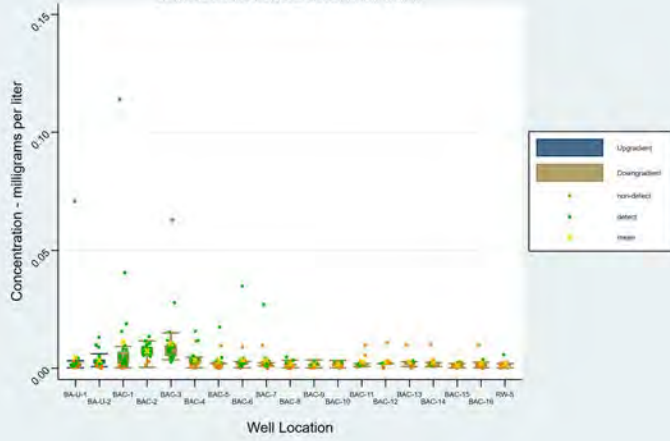
Bottom Ash Basin

Intermountain Power Service Corporation - Intermountain Generation Facility

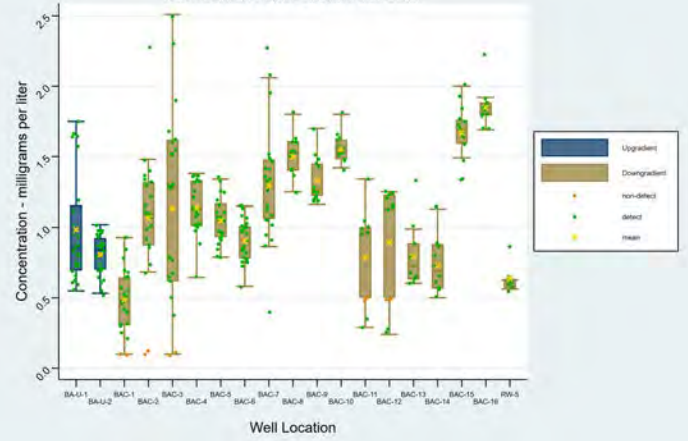
Delta, Utah



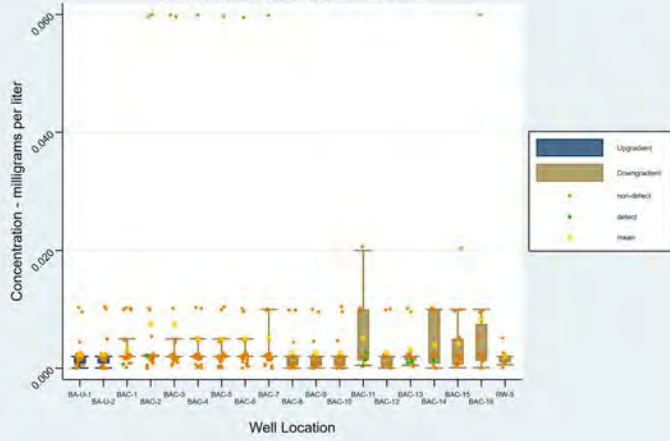
Chromium - Box Plots
Intermountain Power - Bottom Ash Basin



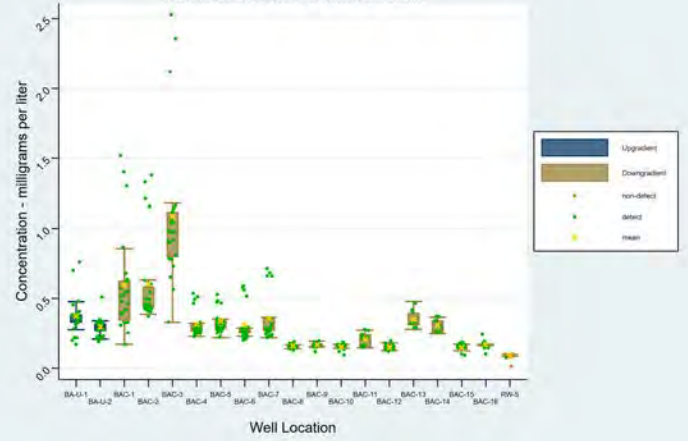
Fluoride - Box Plots
Intermountain Power - Bottom Ash Basin



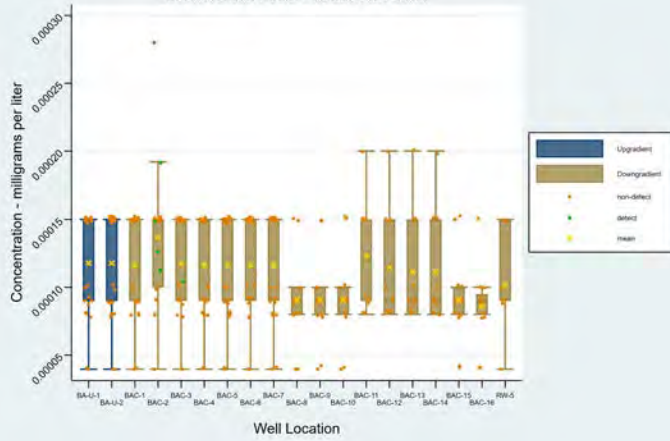
Lead - Box Plots
Intermountain Power - Bottom Ash Basin



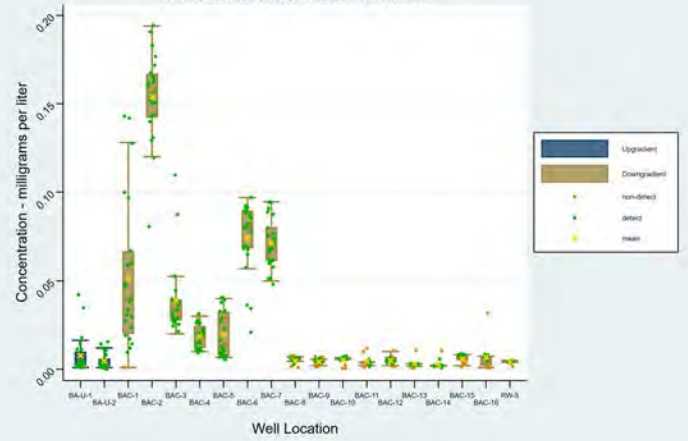
Lithium - Box Plots
Intermountain Power - Bottom Ash Basin



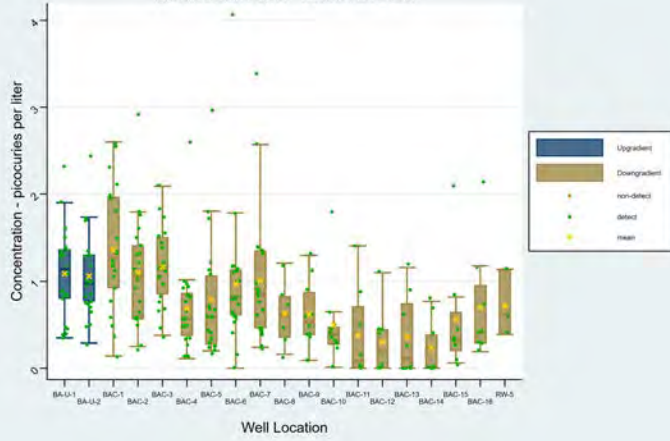
Mercury - Box Plots
Intermountain Power - Bottom Ash Basin



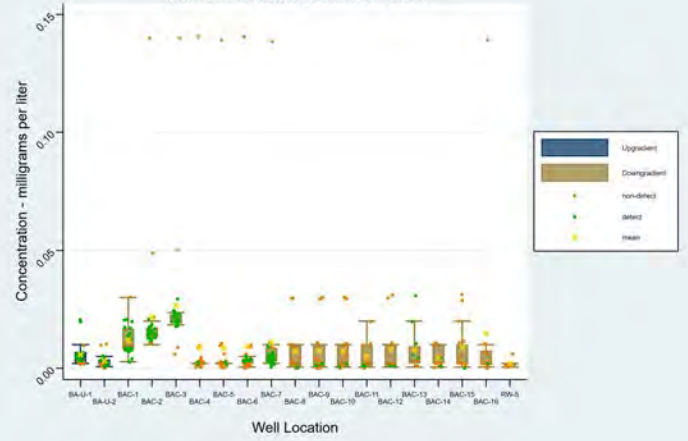
Molybdenum - Box Plots
Intermountain Power - Bottom Ash Basin



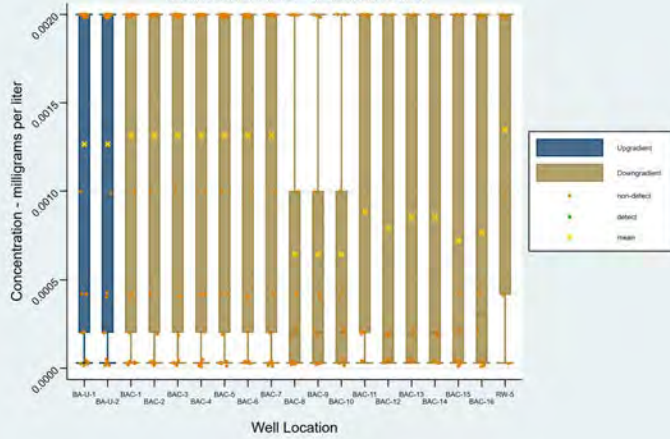
Radium226228 - Box Plots
Intermountain Power - Bottom Ash Basin



Selenium - Box Plots
Intermountain Power - Bottom Ash Basin



Thallium - Box Plots
Intermountain Power - Bottom Ash Basin



Intentionally Left Blank

Box Plots - CCR Appendix IV Parameters

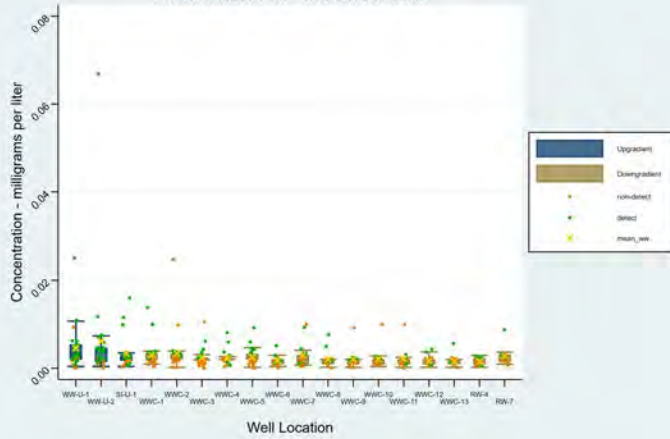
Waste Water Basin

Intermountain Power Service Corporation - Intermountain Generation Facility

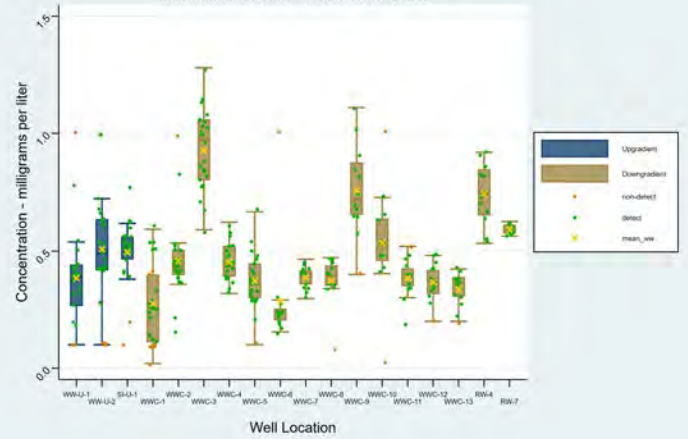
Delta, Utah



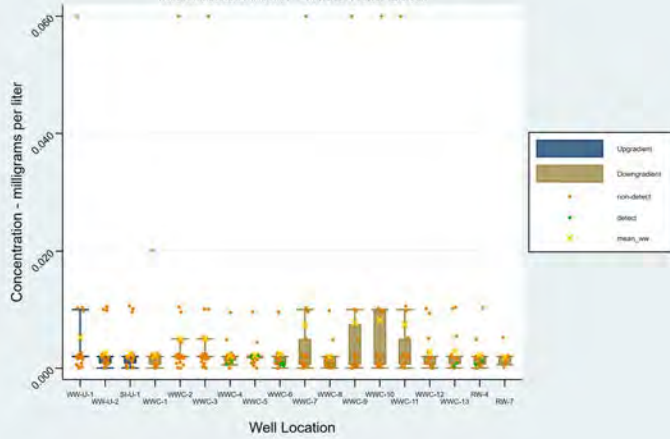
Chromium - Box Plots
Intermountain Power - Waste Water Basin



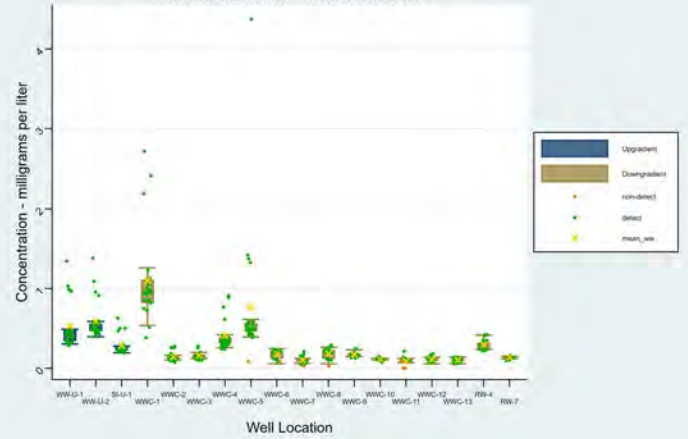
Fluoride - Box Plots
Intermountain Power - Waste Water Basin



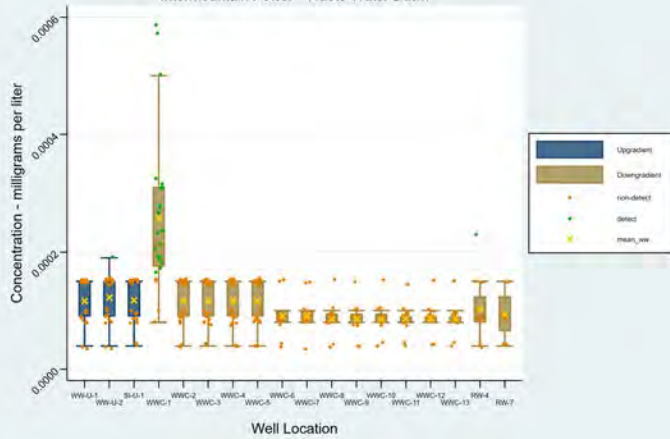
Lead - Box Plots
Intermountain Power - Waste Water Basin



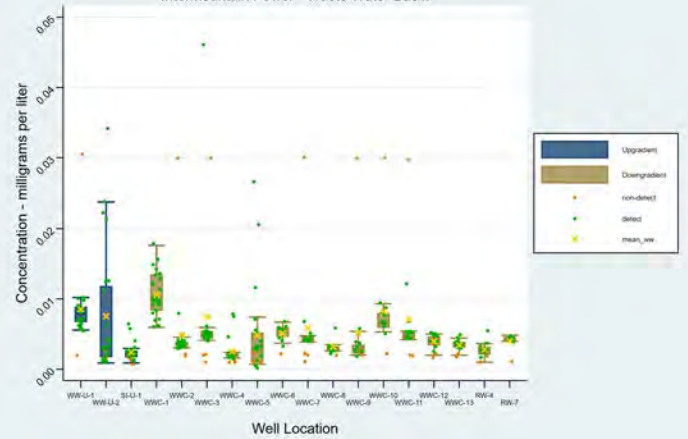
Lithium - Box Plots
Intermountain Power - Waste Water Basin



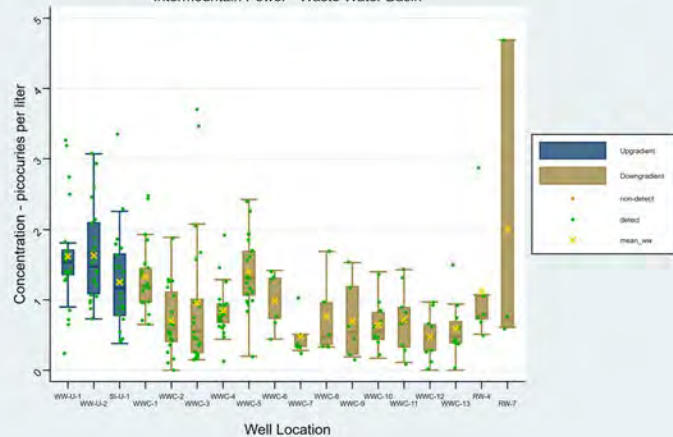
Mercury - Box Plots
Intermountain Power - Waste Water Basin



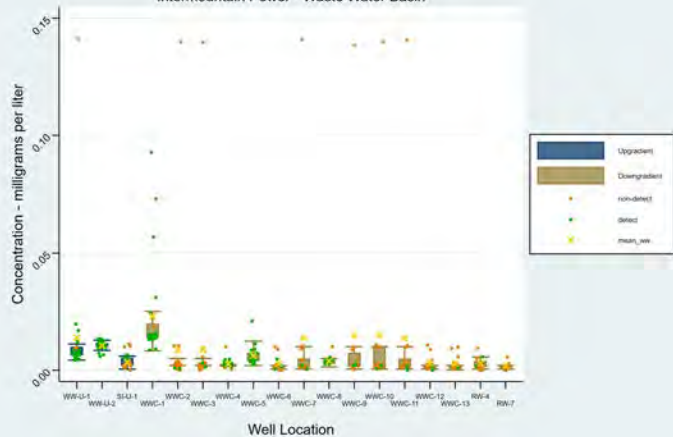
Molybdenum - Box Plots
Intermountain Power - Waste Water Basin



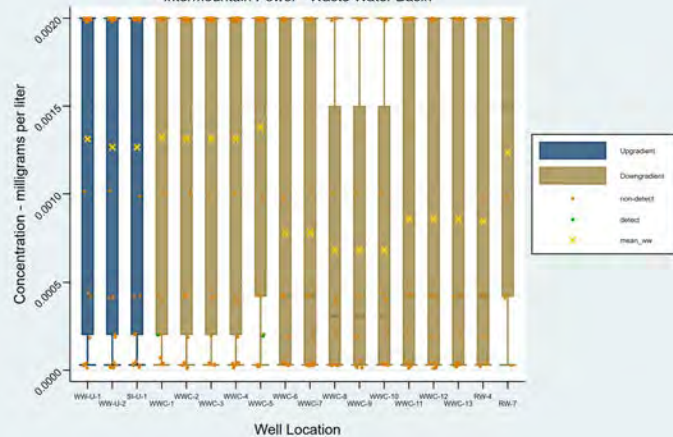
Radium226228 - Box Plots
Intermountain Power - Waste Water Basin



Selenium - Box Plots
Intermountain Power - Waste Water Basin

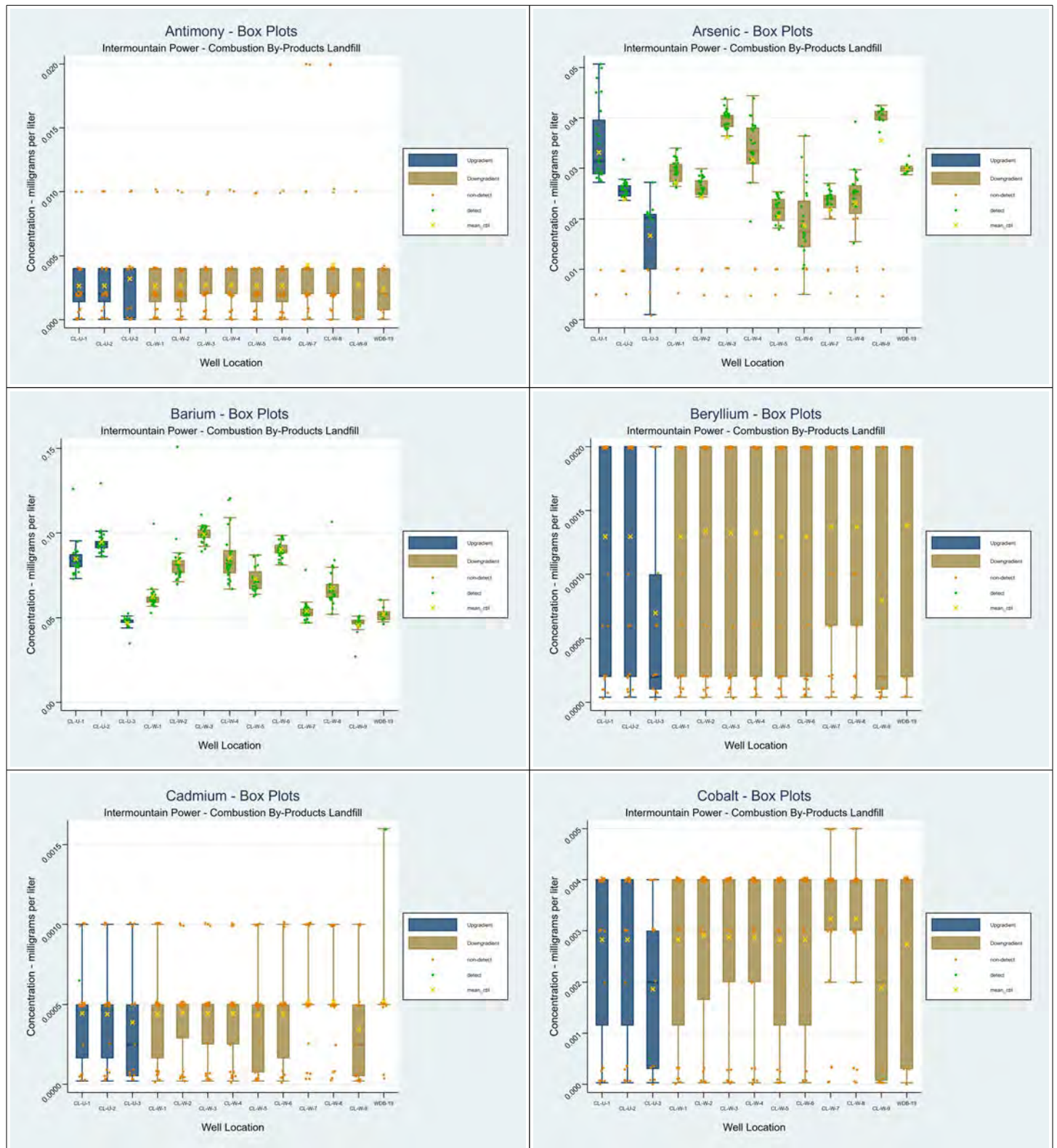


Thallium - Box Plots
Intermountain Power - Waste Water Basin

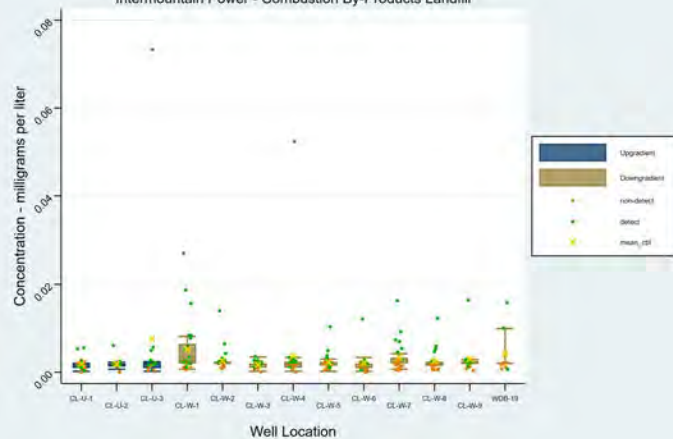


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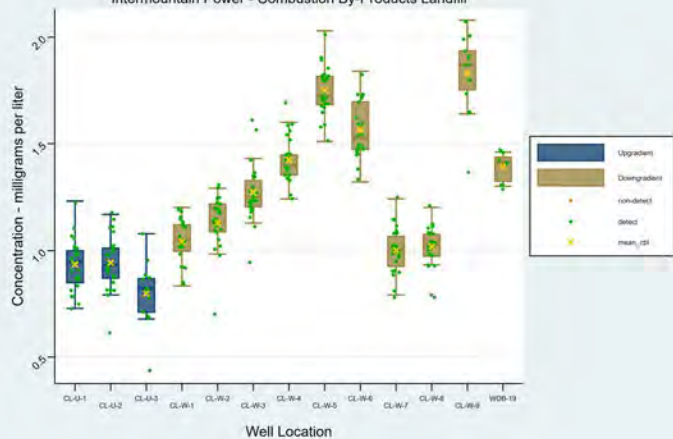
Box Plots - CCR Appendix IV Parameters
Combustion By-Products Landfill
Intermountain Power Service Corporation - Intermountain Generation Facility
Delta, Utah



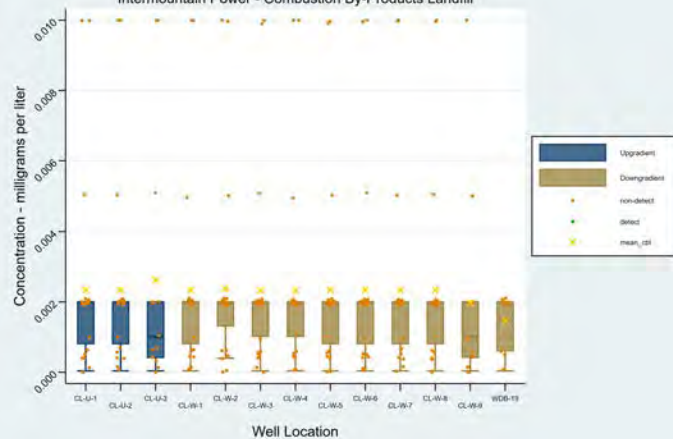
Chromium - Box Plots
Intermountain Power - Combustion By-Products Landfill



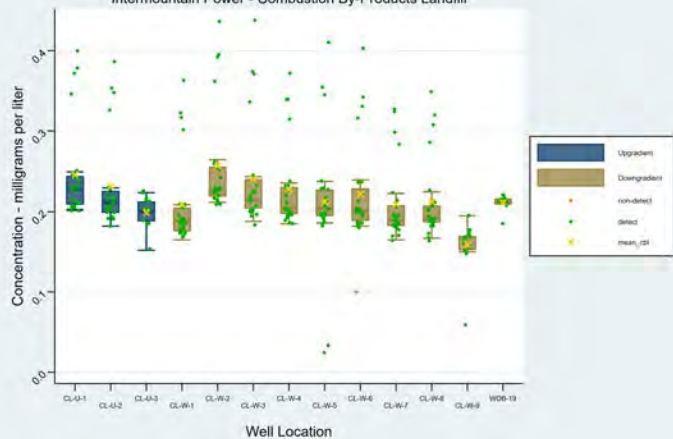
Fluoride - Box Plots
Intermountain Power - Combustion By-Products Landfill



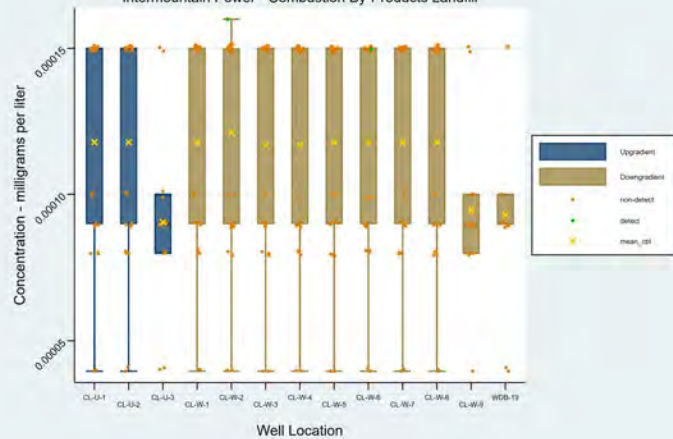
Lead - Box Plots
Intermountain Power - Combustion By-Products Landfill



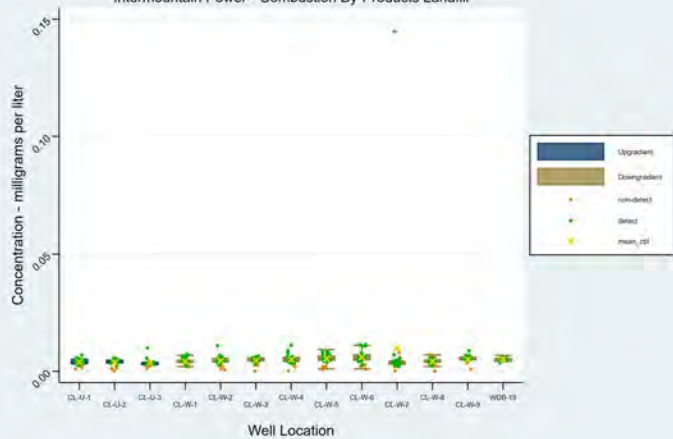
Lithium - Box Plots
Intermountain Power - Combustion By-Products Landfill

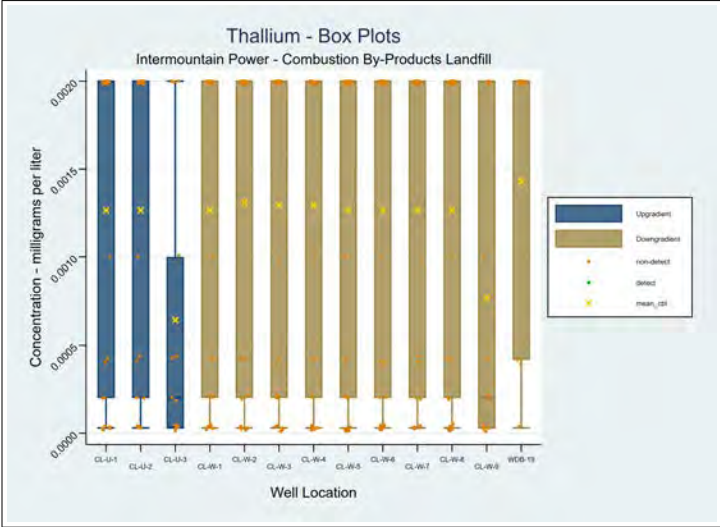
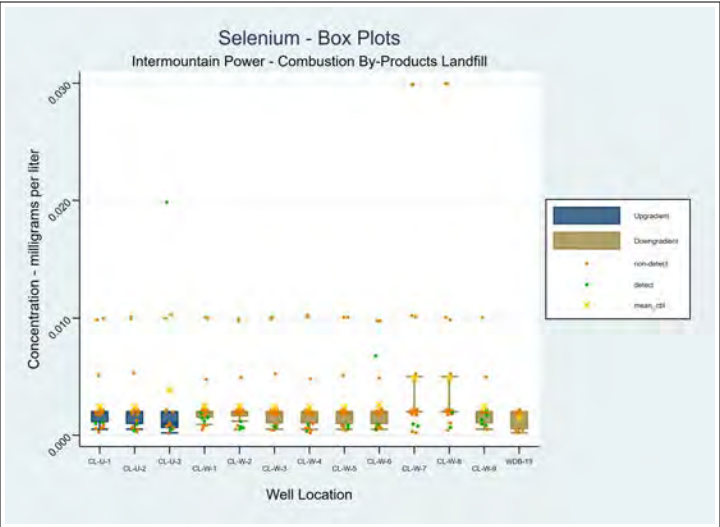
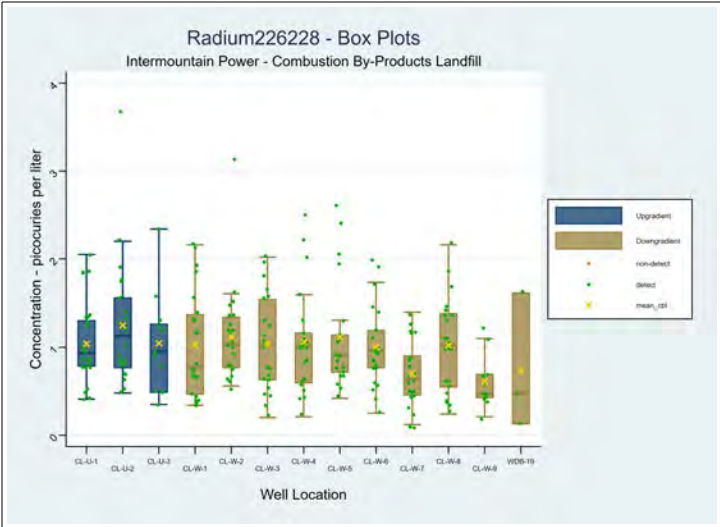


Mercury - Box Plots
Intermountain Power - Combustion By-Products Landfill



Molybdenum - Box Plots
Intermountain Power - Combustion By-Products Landfill





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2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

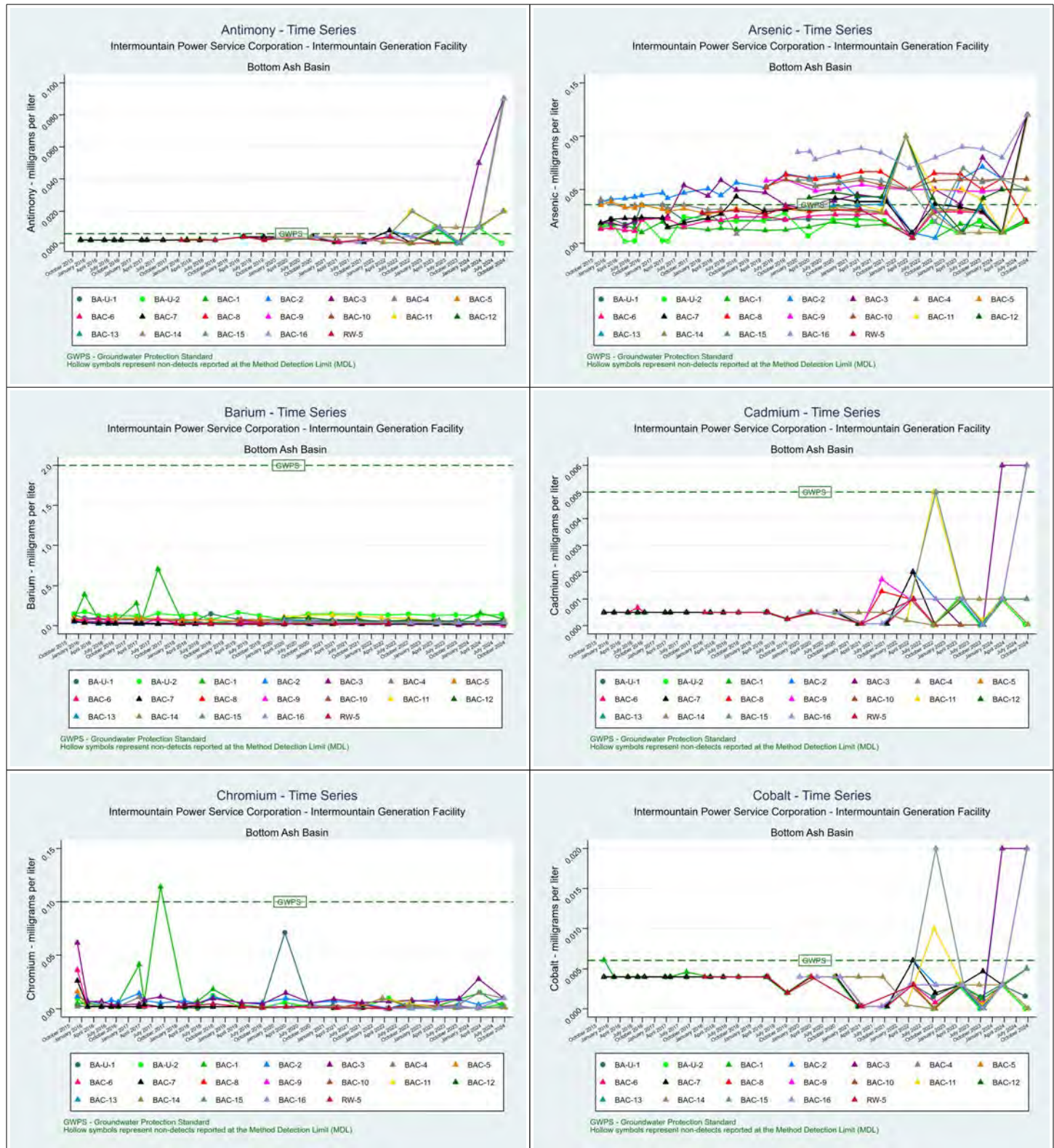
January 16, 2025

ATTACHMENT 4 TIME SERIES PLOTS

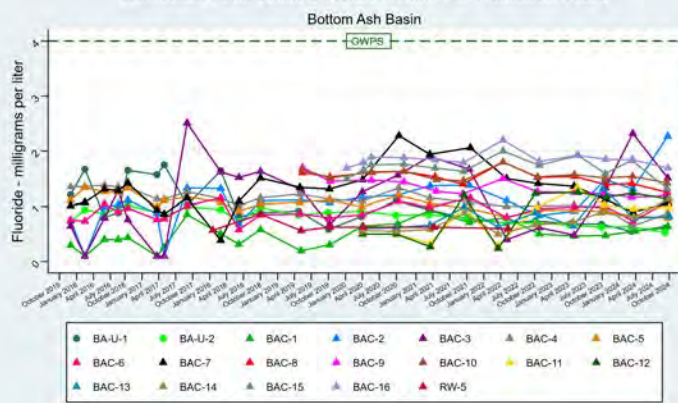
ATTACHMENT 4. Time Series Plots

Bottom Ash Basin

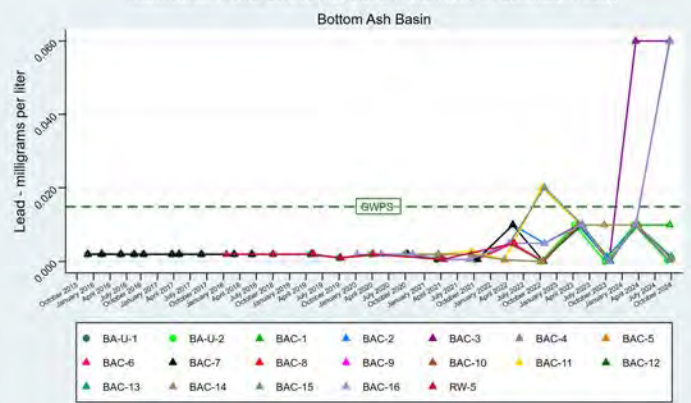
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah



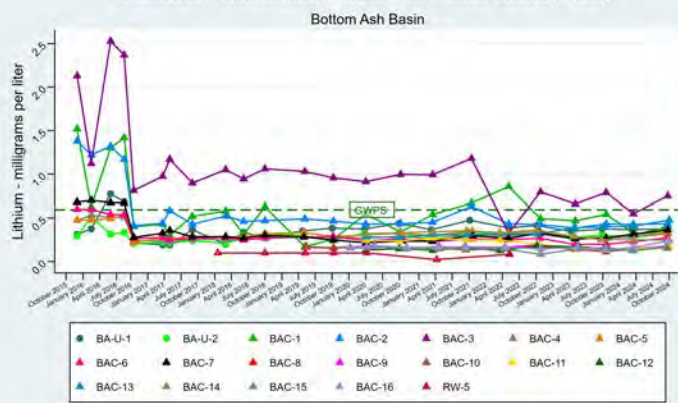
Fluoride - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility



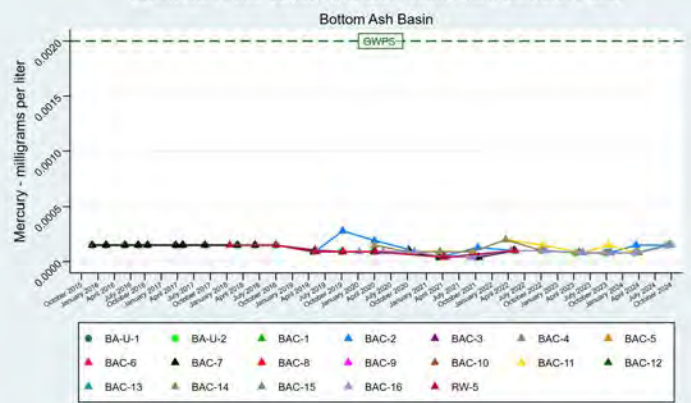
Lead - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility



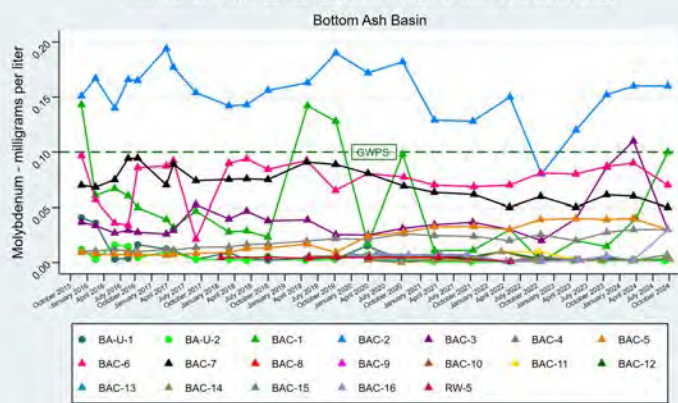
Lithium - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility



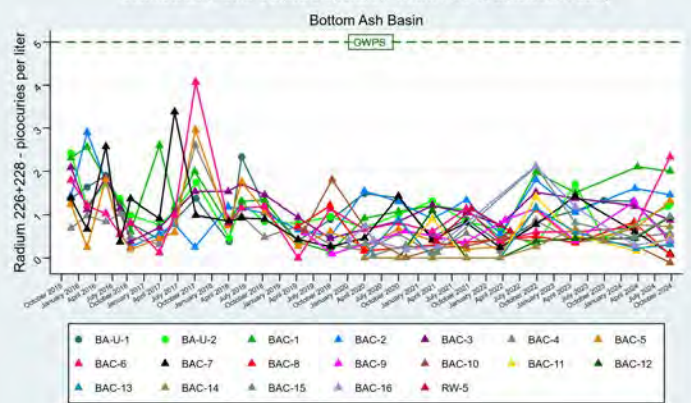
Mercury - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility



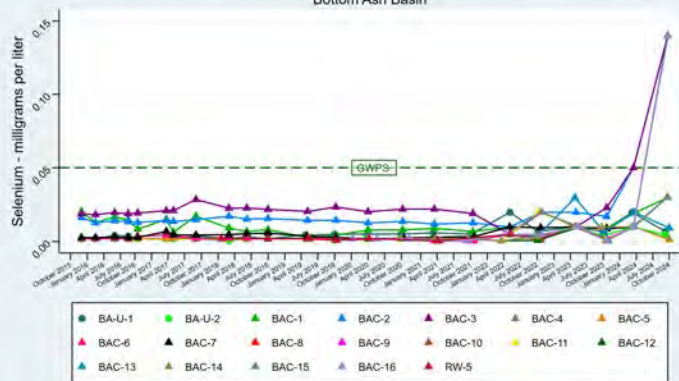
Molybdenum - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility



Radium 226+228 - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility

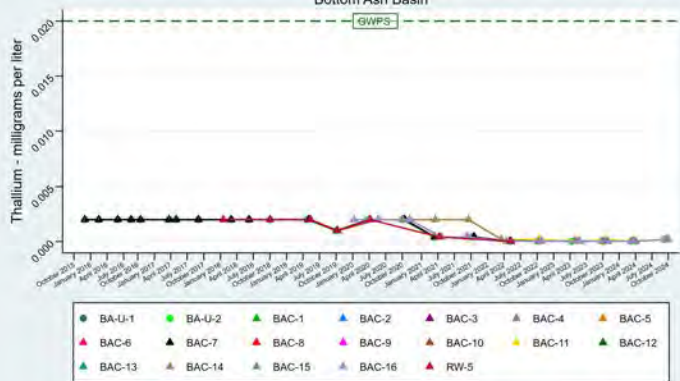


Selenium - Time Series Intermountain Power Service Corporation - Intermountain Generation Facility Bottom Ash Basin



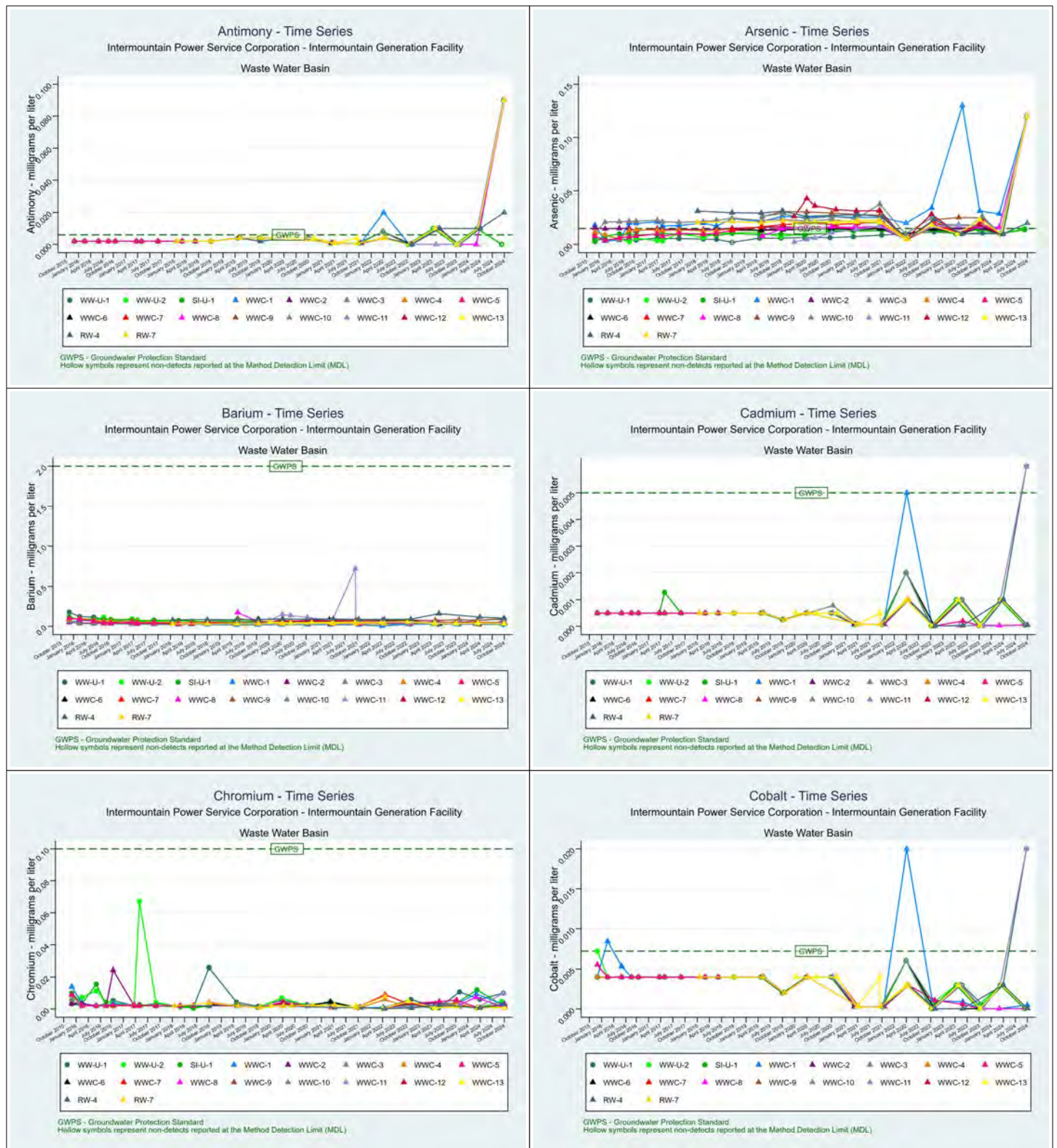
GWPS - Groundwater Protection Standard
Hollow symbols represent non-detects reported at the Method Detection Limit (MDL)

Thallium - Time Series Intermountain Power Service Corporation - Intermountain Generation Facility Bottom Ash Basin



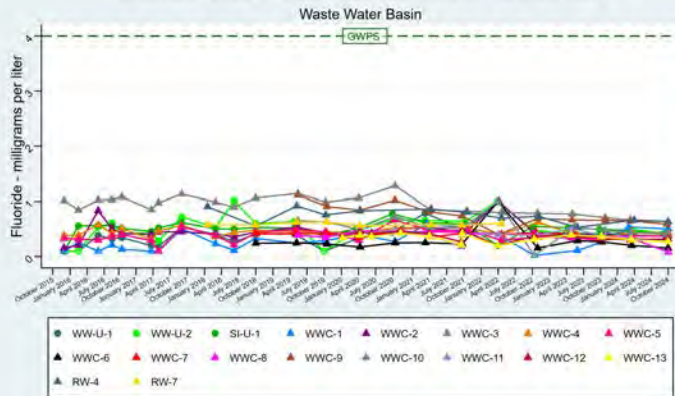
GWPS - Groundwater Protection Standard
Hollow symbols represent non-detects reported at the Method Detection Limit (MDL)

Time Series Plots
Waste Water Basin
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah



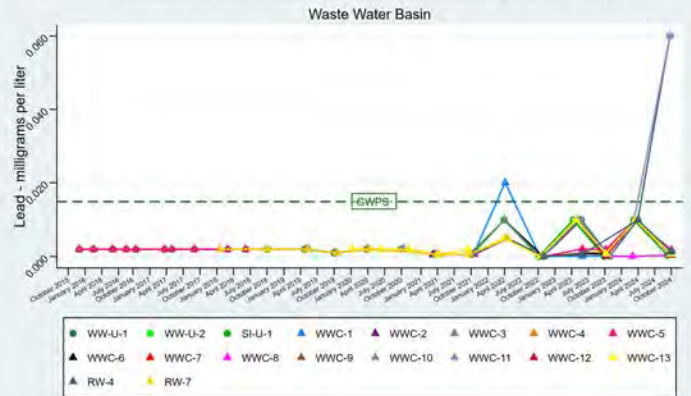
Fluoride - Time Series

Intermountain Power Service Corporation - Intermountain Generation Facility



Lead - Time Series

Intermountain Power Service Corporation - Intermountain Generation Facility



Lithium - Time Series

Intermountain Power Service Corporation - Intermountain Generation Facility



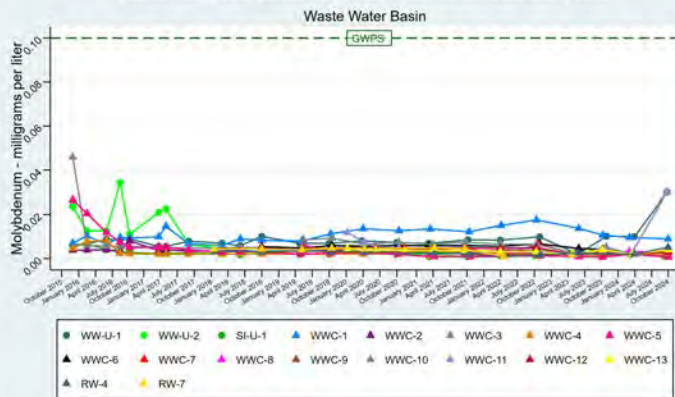
Mercury - Time Series

Intermountain Power Service Corporation - Intermountain Generation Facility



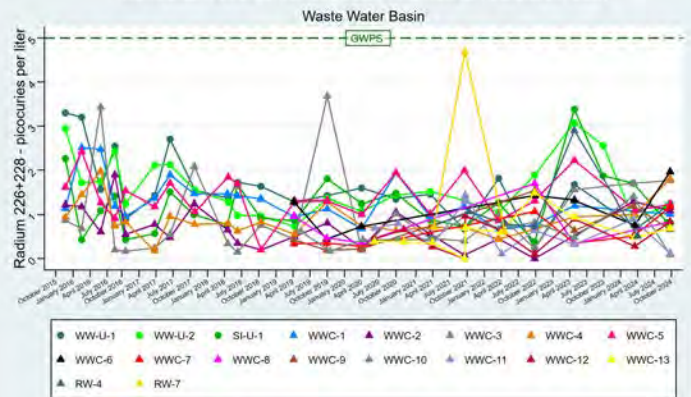
Molybdenum - Time Series

Intermountain Power Service Corporation - Intermountain Generation Facility

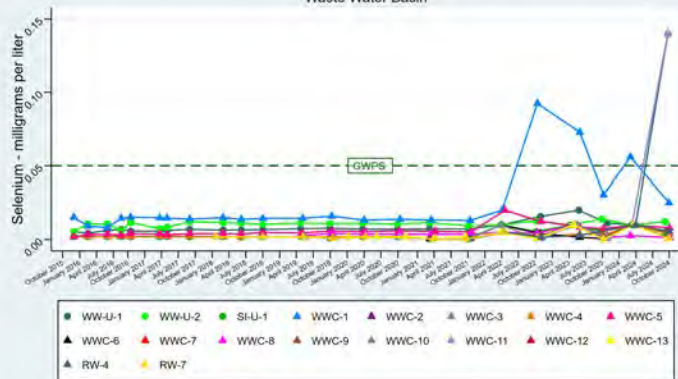


Radium 226+228 - Time Series

Intermountain Power Service Corporation - Intermountain Generation Facility

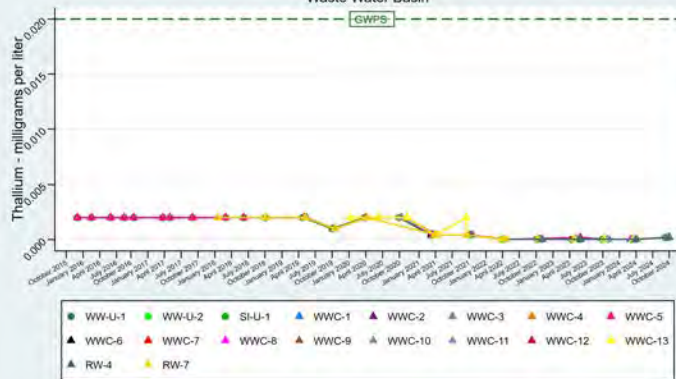


Selenium - Time Series Intermountain Power Service Corporation - Intermountain Generation Facility Waste Water Basin



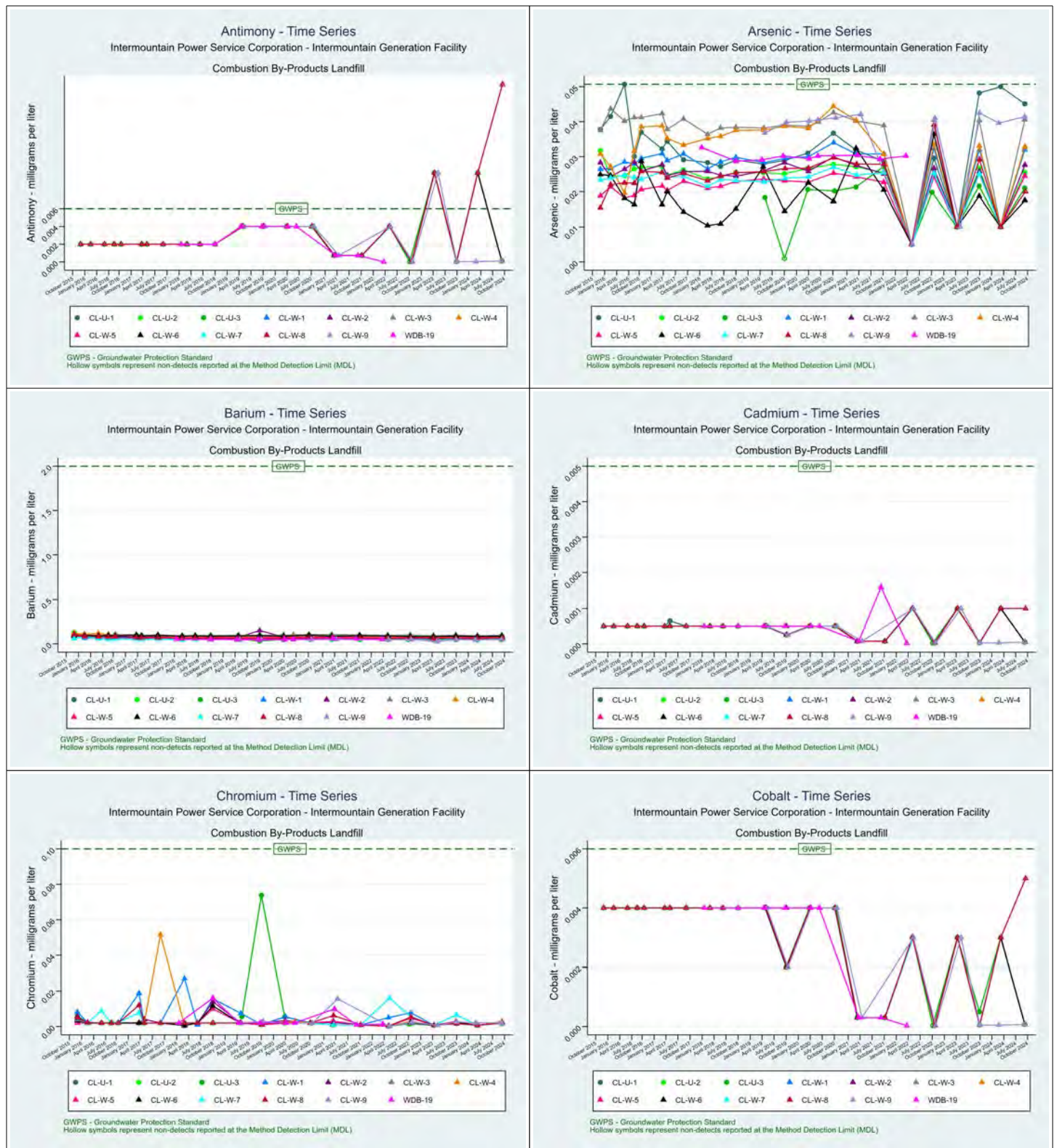
GWPS - Groundwater Protection Standard
Hollow symbols represent non-detects reported at the Method Detection Limit (MDL)

Thallium - Time Series Intermountain Power Service Corporation - Intermountain Generation Facility Waste Water Basin

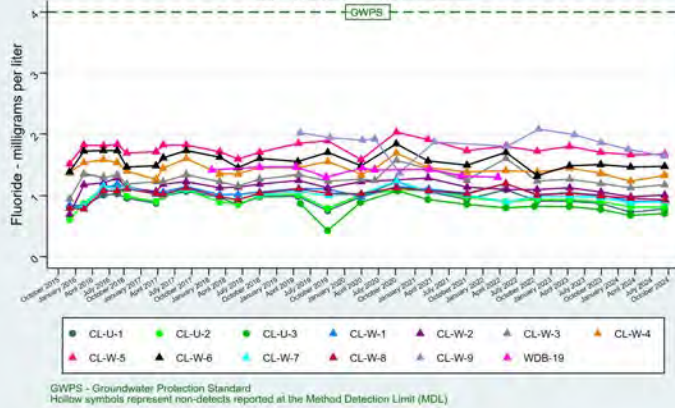


GWPS - Groundwater Protection Standard
Hollow symbols represent non-detects reported at the Method Detection Limit (MDL)

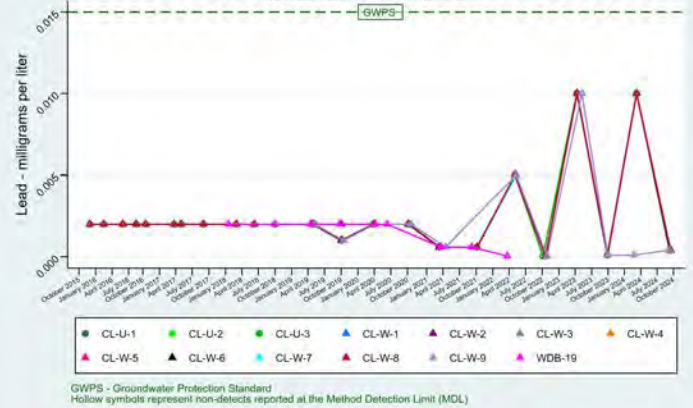
Time Series Plots
Combustion By-Product Landfill
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah



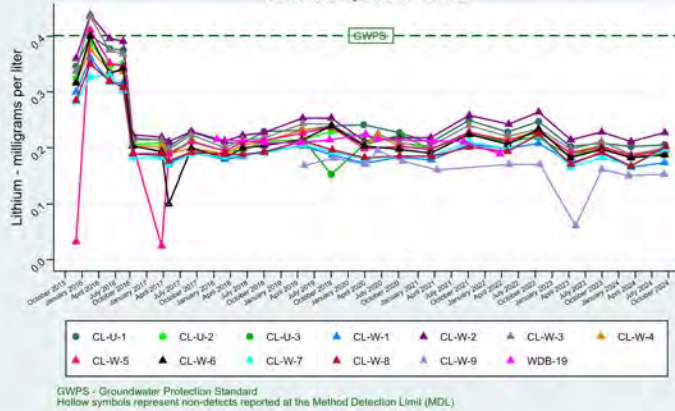
Fluoride - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility
Combustion By-Products Landfill



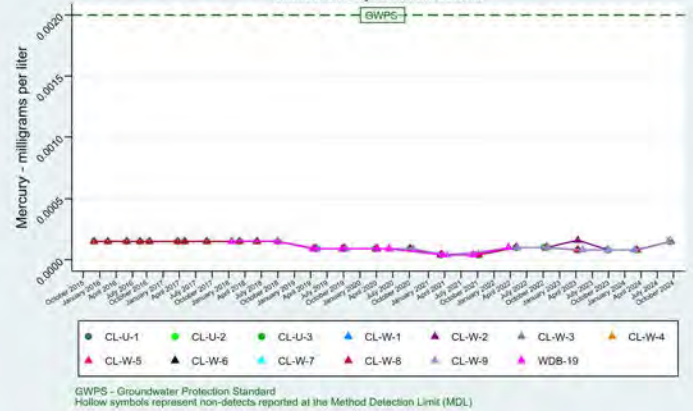
Lead - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility
Combustion By-Products Landfill



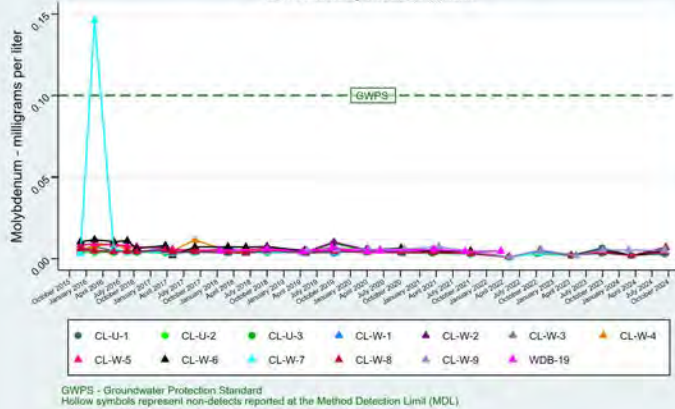
Lithium - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility
Combustion By-Products Landfill



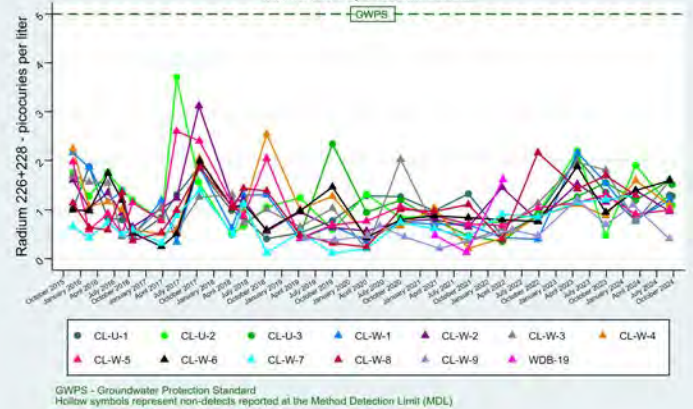
Mercury - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility
Combustion By-Products Landfill



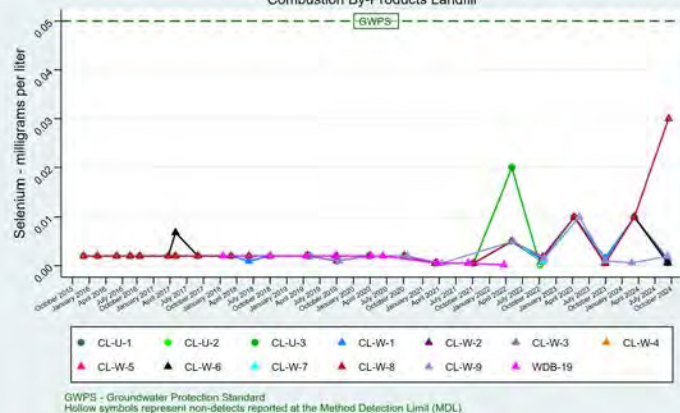
Molybdenum - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility
Combustion By-Products Landfill



Radium 226+228 - Time Series
Intermountain Power Service Corporation - Intermountain Generation Facility
Combustion By-Products Landfill



Selenium - Time Series Intermountain Power Service Corporation - Intermountain Generation Facility Combustion By-Products Landfill



Thallium - Time Series Intermountain Power Service Corporation - Intermountain Generation Facility Combustion By-Products Landfill

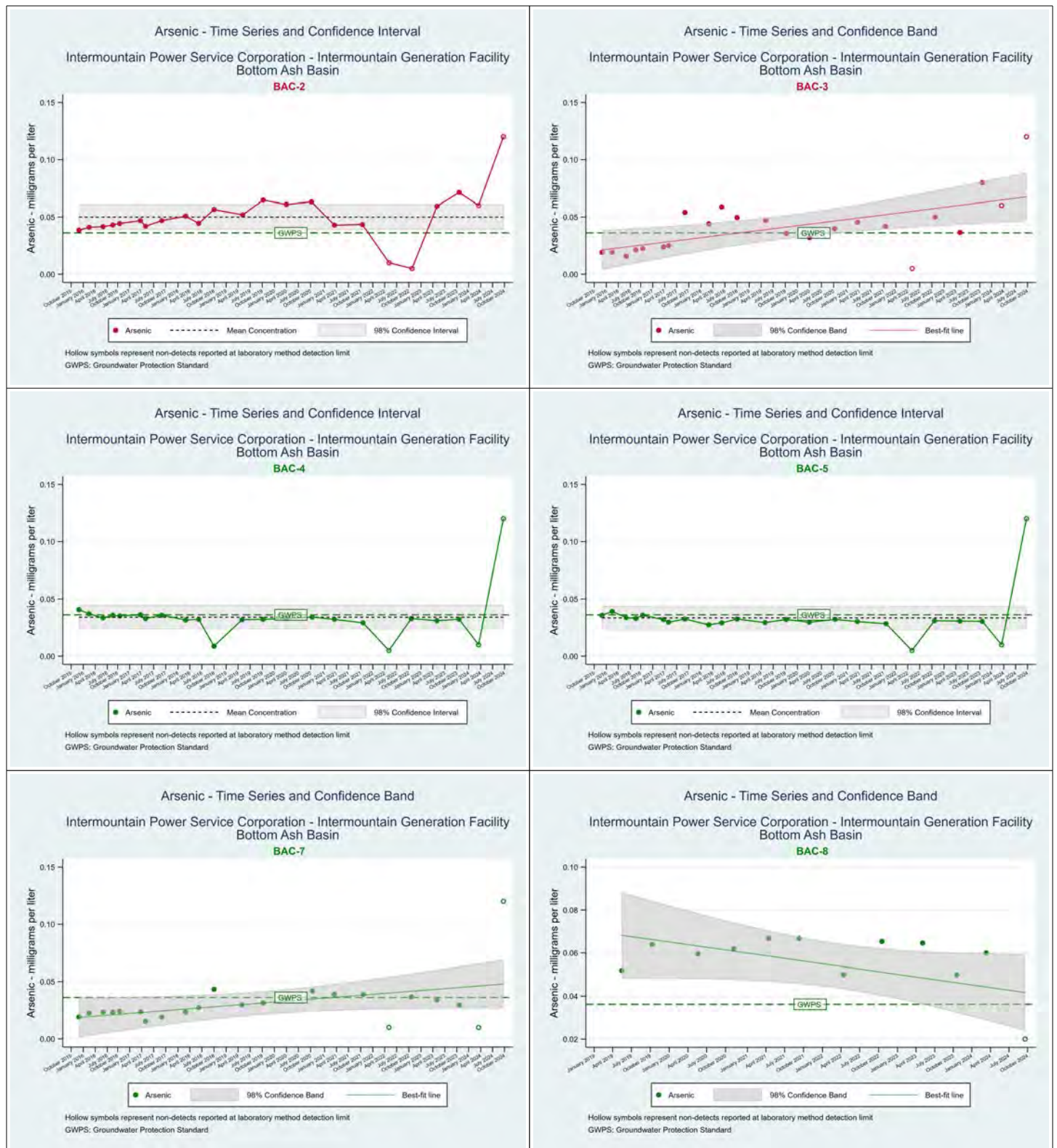


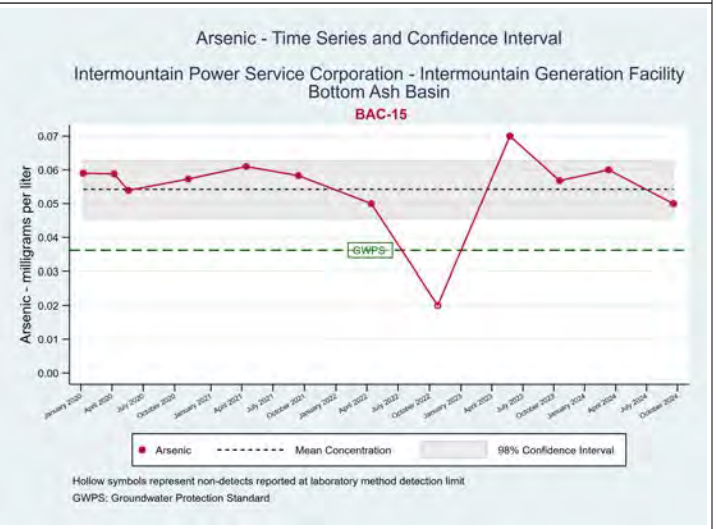
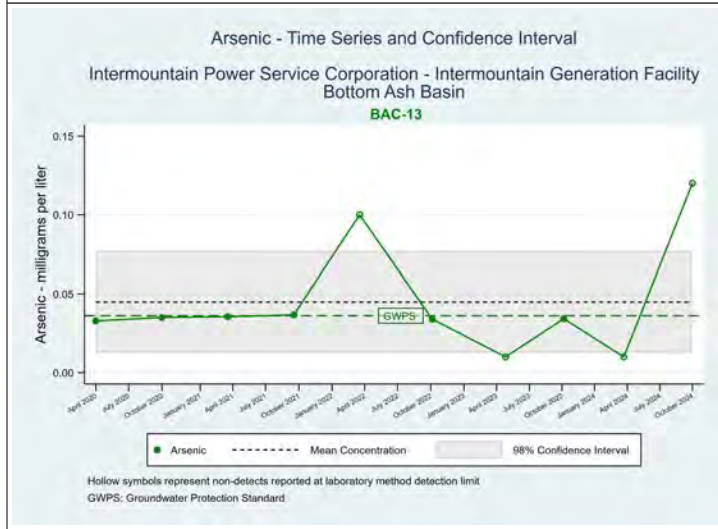
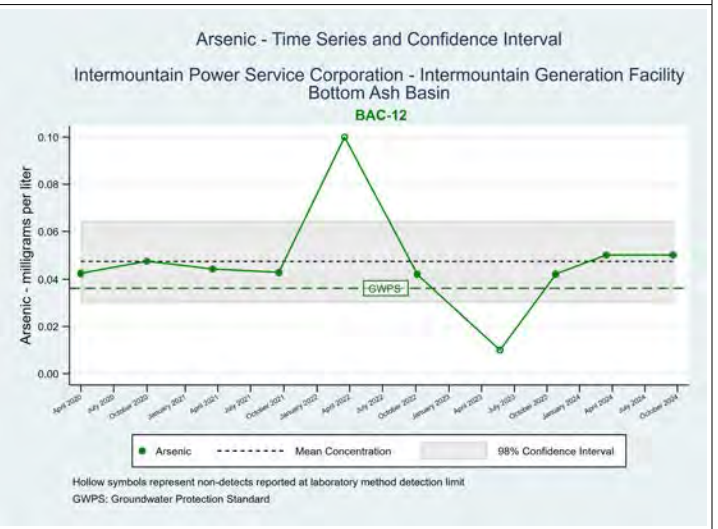
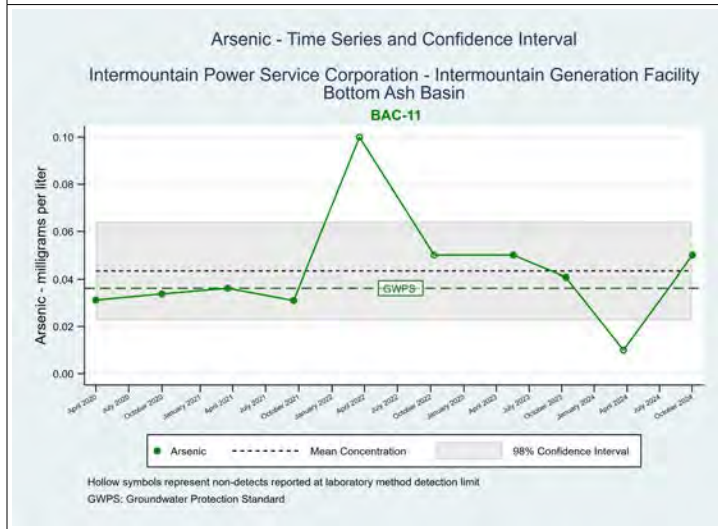
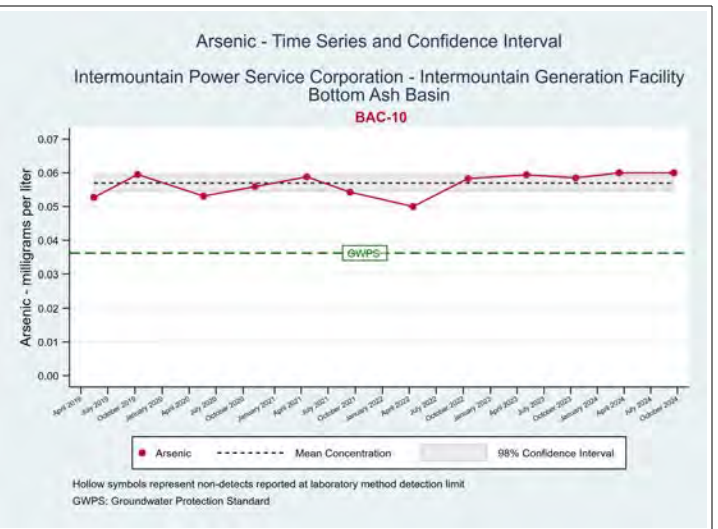
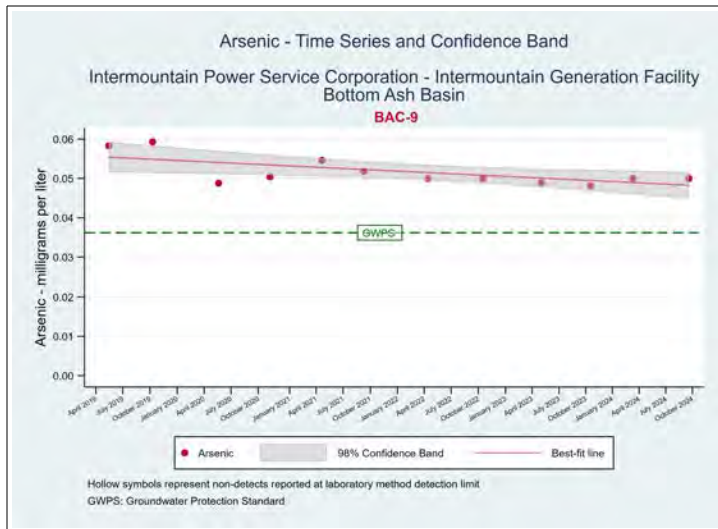
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION SUMMARY REPORT

January 16, 2025

ATTACHMENT 5 REGRESSIONAL AND CONFIDENCE INTERVAL/BAND PLOTS

ATTACHMENT 5A. Regression and Confidence Interval/Band Plots
Bottom Ash Basin
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah





Arsenic - Time Series and Confidence Interval

Intermountain Power Service Corporation - Intermountain Generation Facility
Bottom Ash Basin

BAC-16

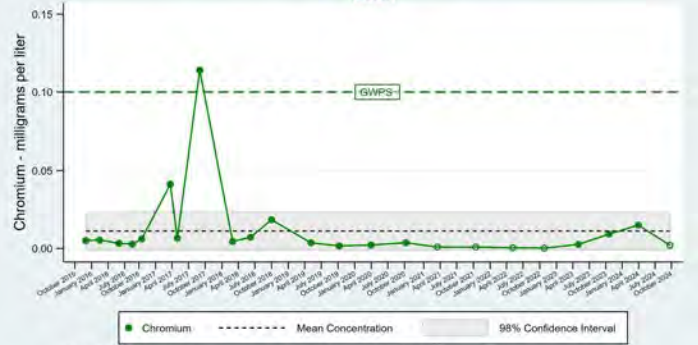


Hollow symbols represent non-detects reported at laboratory method detection limit
GWPS: Groundwater Protection Standard

Chromium - Time Series and Confidence Interval

Intermountain Power Service Corporation - Intermountain Generation Facility
Bottom Ash Basin

BAC-1



Hollow symbols represent non-detects reported at laboratory method detection limit
GWPS: Groundwater Protection Standard

Cobalt - Time Series and Confidence Interval

Intermountain Power Service Corporation - Intermountain Generation Facility
Bottom Ash Basin

BAC-1

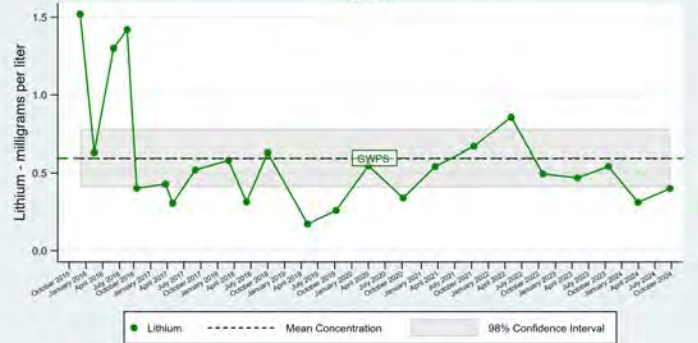


Hollow symbols represent non-detects reported at laboratory method detection limit
GWPS: Groundwater Protection Standard

Lithium - Time Series and Confidence Interval

Intermountain Power Service Corporation - Intermountain Generation Facility
Bottom Ash Basin

BAC-1



Hollow symbols represent non-detects reported at laboratory method detection limit
GWPS: Groundwater Protection Standard

Lithium - Time Series and Confidence Band

Intermountain Power Service Corporation - Intermountain Generation Facility
Bottom Ash Basin

BAC-2

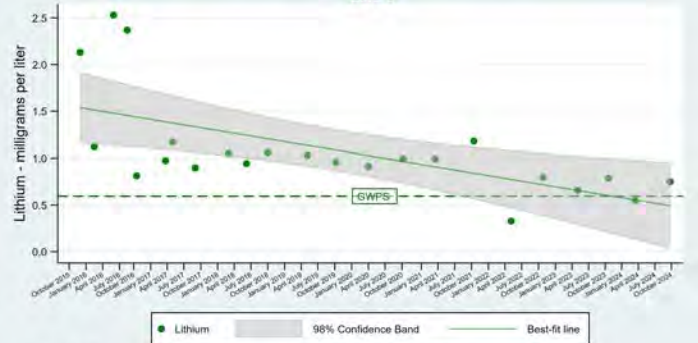


Hollow symbols represent non-detects reported at laboratory method detection limit
GWPS: Groundwater Protection Standard

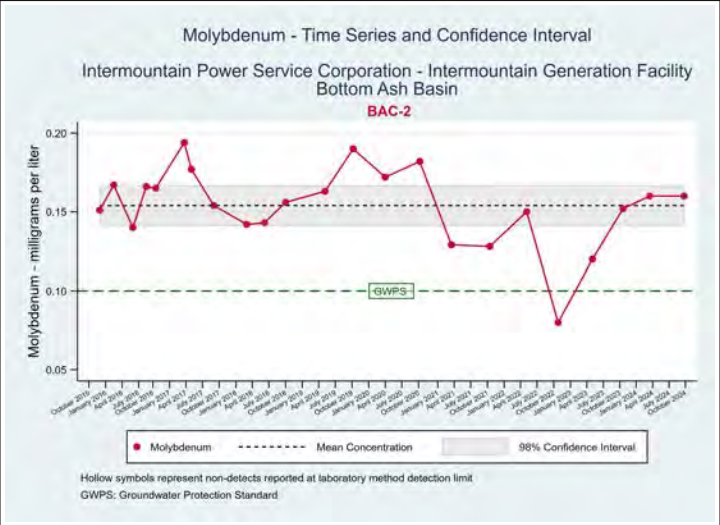
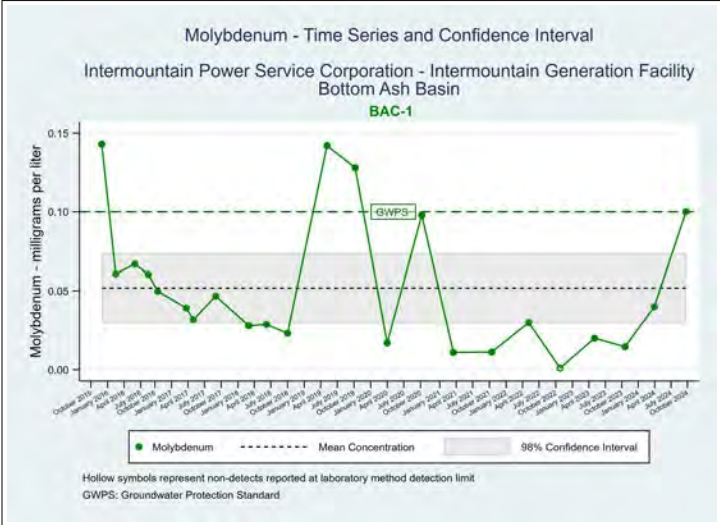
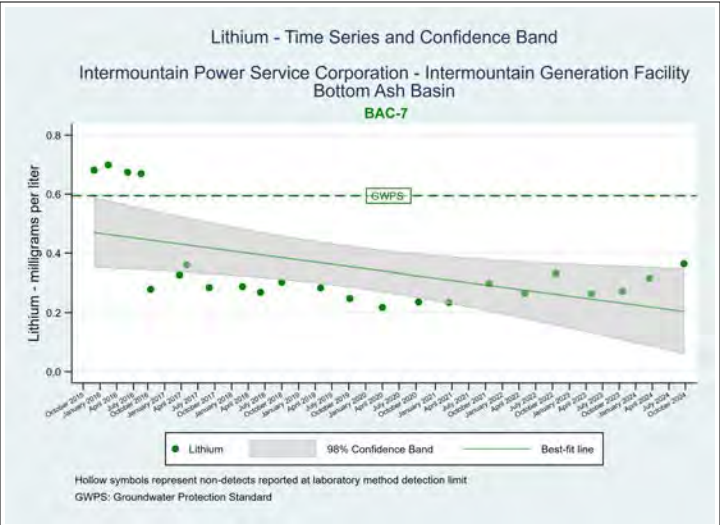
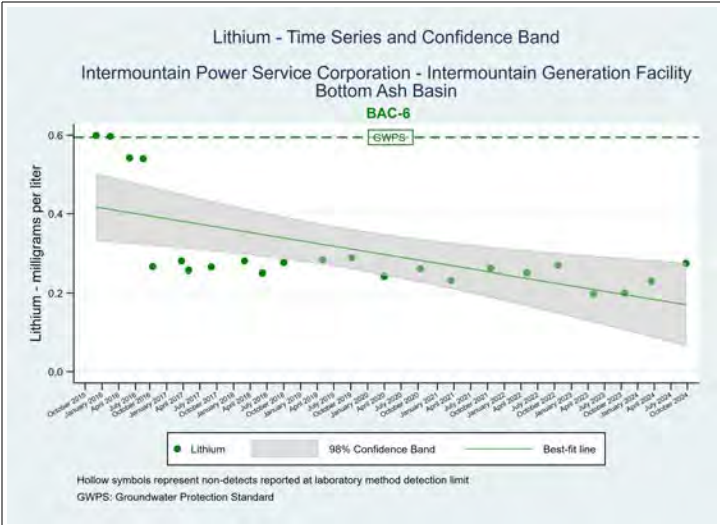
Lithium - Time Series and Confidence Band

Intermountain Power Service Corporation - Intermountain Generation Facility
Bottom Ash Basin

BAC-3

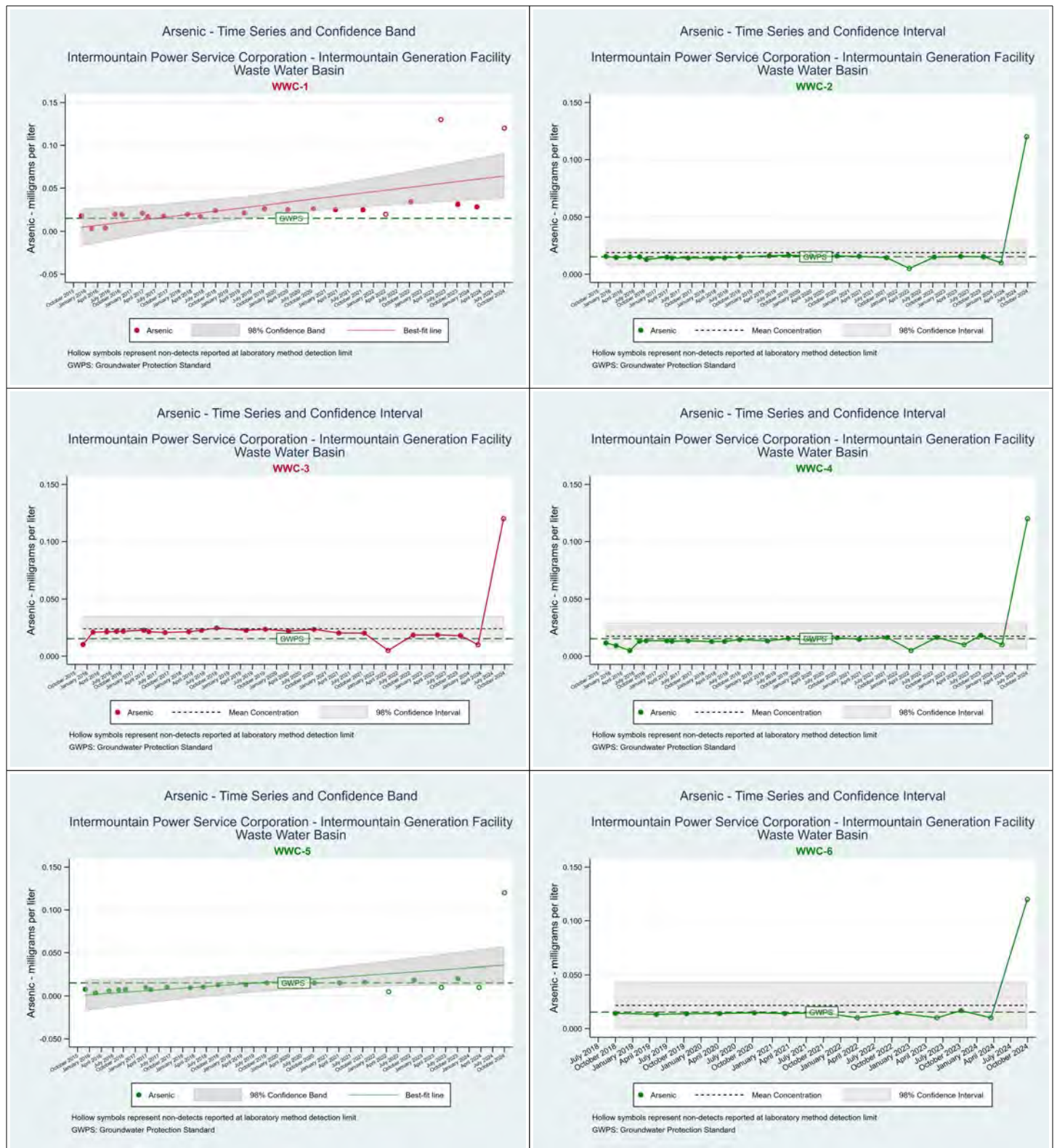


Hollow symbols represent non-detects reported at laboratory method detection limit
GWPS: Groundwater Protection Standard



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ATTACHMENT 5B. Regression and Confidence Interval/Band Plots
Waste Water Basin
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah



Arsenic - Time Series and Confidence Interval

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

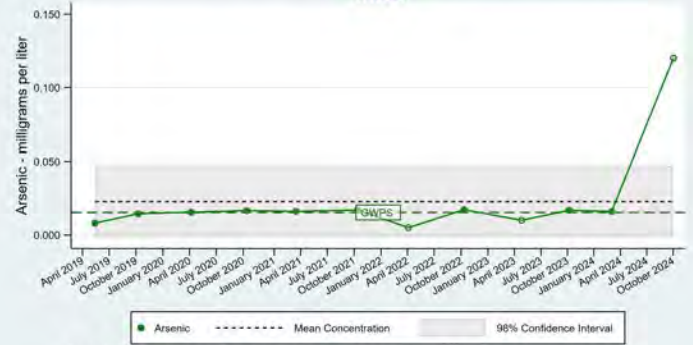
WWC-7



Arsenic - Time Series and Confidence Interval

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

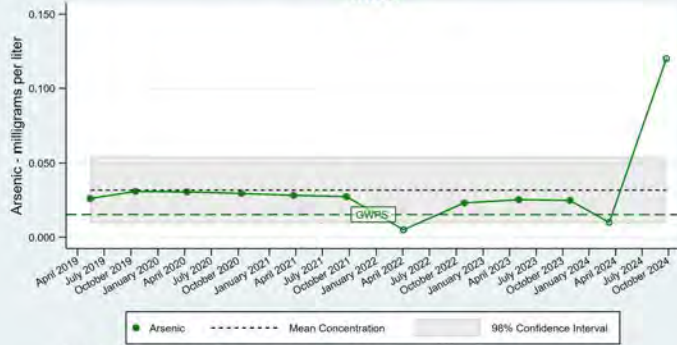
WWC-8



Arsenic - Time Series and Confidence Interval

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

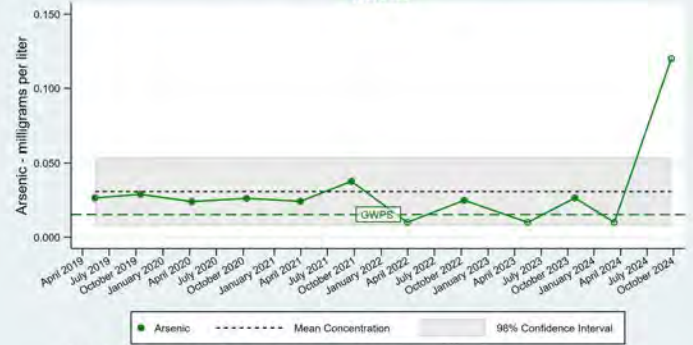
WWC-9



Arsenic - Time Series and Confidence Interval

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

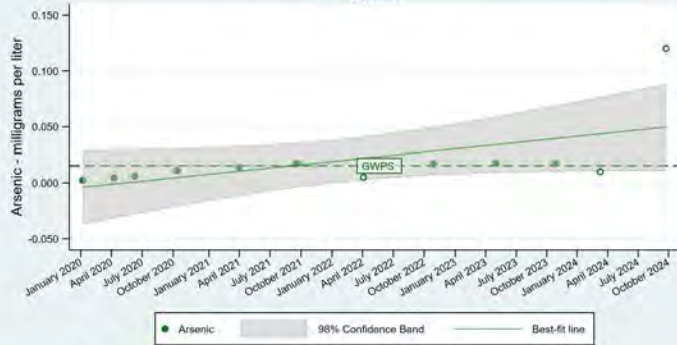
WWC-10



Arsenic - Time Series and Confidence Band

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

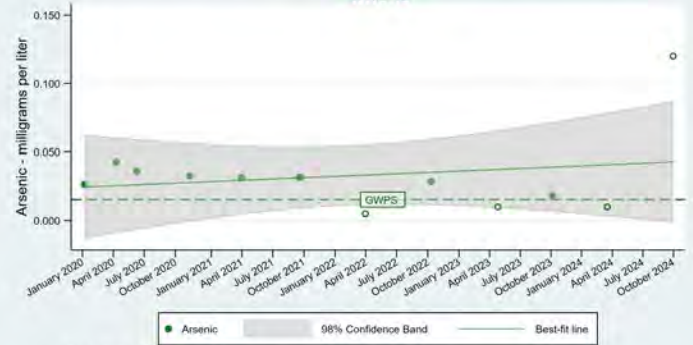
WWC-11



Arsenic - Time Series and Confidence Band

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

WWC-12



Arsenic - Time Series and Confidence Interval

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

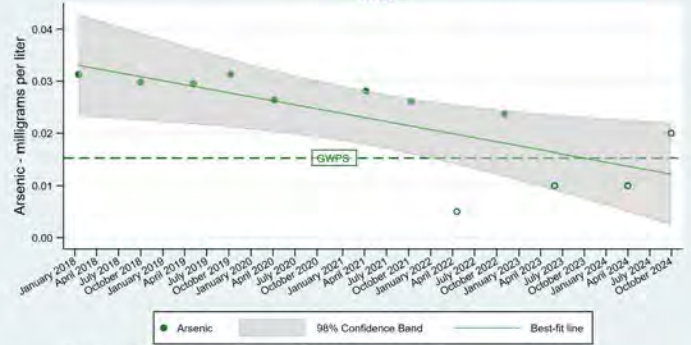
WWC-13



Arsenic - Time Series and Confidence Band

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

RW-4



Arsenic - Time Series and Confidence Interval

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

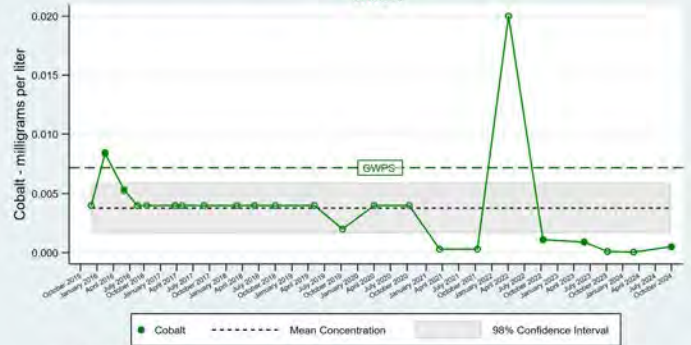
RW-7



Cobalt - Time Series and Confidence Interval

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

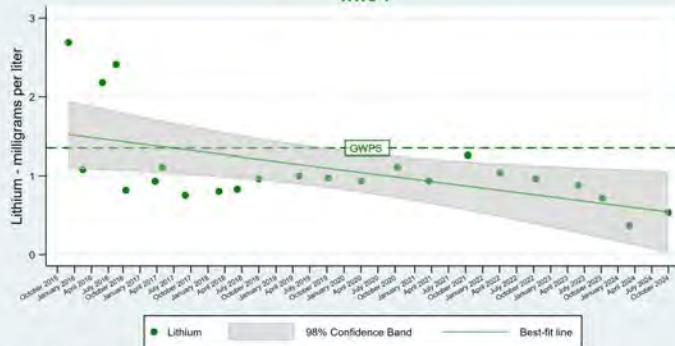
WWC-1



Lithium - Time Series and Confidence Band

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

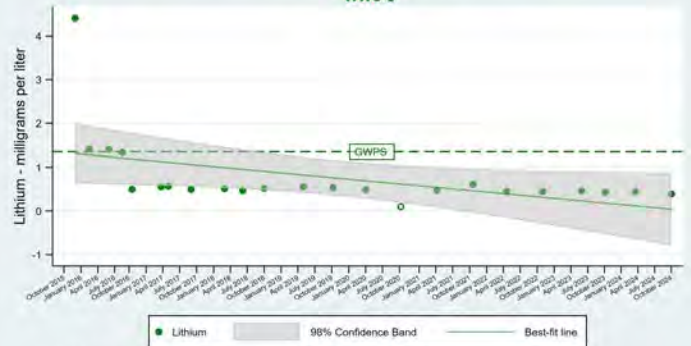
WWC-1

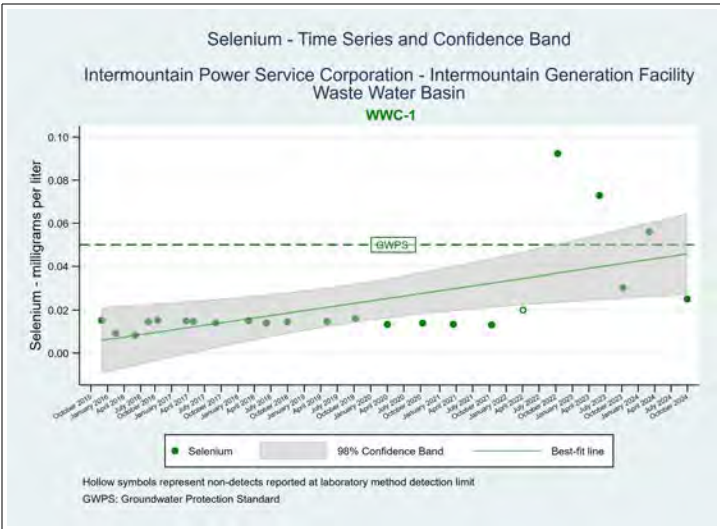


Lithium - Time Series and Confidence Band

Intermountain Power Service Corporation - Intermountain Generation Facility
Waste Water Basin

WWC-5





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ATTACHMENT 5C. Regression and Confidence Interval/Band Plots
Combustion By-Product Landfill
Intermountain Power Service Corporation - Intermountain Generation Facility, Delta, Utah

