



TETRA TECH, INC.

July 17, 2014

Mr. John Collins
Montana Department of Environmental Quality
Solid Waste Program
P.O. Box 200901
Helena, Montana 59620

**RE: Report of Monitoring Well Installation and Groundwater Monitoring Activities –
March through May 2014
Bozeman Landfill, Bozeman, Montana**

Dear Mr. Collins:

Please find the attached report of Monitoring Well Installation and Groundwater Monitoring Activities for March through May 2014. This report was prepared in response to your letters of August 30 and November 5, 2013 and January 16, 2014. Please contact me with any questions or comments to this report.

Sincerely,

Mark F. Pearson
Project Manager/Hydrogeologist

Enclosure: Report of Monitoring Well Installation and Groundwater Monitoring Activities –
March through May 2014

Cc with attachments: Dr. Craig Woolard, PE, City of Bozeman (5 copies)

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**DRAFT
REPORT OF MONITORING WELL INSTALLATION
AND GROUNDWATER MONITORING ACTIVITIES
MARCH THROUGH MAY 2014**

**BOZEMAN LANDFILL
BOZEMAN, MONTANA**

Prepared for:

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Tetra Tech Project No. 114-710303

July 17, 2014

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1.0 INTRODUCTION

Tetra Tech installed additional monitoring wells and conducted groundwater monitoring activities during March through May 2014 at the Bozeman Landfill and site vicinity (**Figure 1**). This work was conducted in response to DEQ letters dated August 30 and November 5, 2013 and January 16, 2014. These activities consisted of the drilling and installation of groundwater monitoring wells, groundwater monitoring in March, and a re-sampling of selected wells in May. Tetra Tech personnel conducted the program in accordance with a Task Order, Work Plan for Groundwater Investigation dated January 31, 2014 and the *Groundwater Sampling and Analysis Plan* dated October 28, 2010.

Ten additional groundwater monitoring wells were drilled and completed in the vicinity of the Bozeman Landfill property. Monitoring activities included the measurement of water levels and field parameters, purging and sampling of wells and a surface water spring (McIlhattan Seep), and submitting the samples for laboratory analysis. Monitoring sites are shown in **Figure 2**. An initial monitoring/sampling event was conducted in March 2014, following installation of nine groundwater monitoring wells. A second monitoring/sampling event was conducted in May 2014, to confirm concentrations of VOCs detected in the March 2014 event and to collect samples from wells completed after the March 2014 event.

1.1 METHODS

This section describes methods used to install the additional monitoring wells and monitor groundwater at the Bozeman Landfill. Results of the monitoring activities are presented in Section 2.0. Figures presenting the site location, monitoring sites, and other site aspects are attached. Data tables are also attached. Graphs of groundwater data over time are contained in **Appendix A**. Groundwater sampling logs are contained in **Appendix B** and laboratory analytical reports are contained in **Appendix C**.

1.1.1 Drilling and Installation of Monitoring Wells

Per the Work Plan developed by the City for DEQ, ten additional wells were drilled and completed in February through April 2014. These were named MW-17 through MW-26. All of these wells were drilled and completed using a Mobile B-61 Hollowstem Auger drilling rig with exception to wells MW-24 and MW-26 which were drilled and completed using a Foremost DR-24 dual air rotary drilling rig. Drilling began February 24 and occurred over several intervals until being completed on April 23, 2014. Access problems caused by thawing soils and difficult drilling conditions halted the drilling on several occasions and resulted in the use of two drilling rigs having three separate mobilizations. All wells were completed with 2-inch diameter, Schedule 40 PVC well casing and machine-slotted well casing. Slot size was mostly 0.01-inch. Only well MW-21 utilized 0.02-inch slotted casing. Filter pack consisted of size #10-20 silica sand and the grout/well seal consisted of hydrated bentonite chips. Surface completions consist of both steel stickup and steel covers at grade secured with concrete grout. A summary of well specifications is provided in **Table 1**. Well logs are contained in **Appendix B**.

1.1.2 Water Level and Field Parameter Measurements

Depth to groundwater was measured in monitoring wells during the March 25 – 28 and May 1 - 2 monitoring events. The ten new monitoring wells were surveyed by Great West Engineering to establish the location and elevation of each well. Previously, site surveying was completed to a

local datum for surface contours, design of the lined cell, covers, landfill gas extraction systems, roads and all monitoring points. The new survey established elevations relative to the Montana State Plane coordinate system. Hence, historic monitoring well elevations and water level elevations presented in previous reports will vary from those presented in this report.

Water levels were measured from a designated measuring point on the north quadrant of the polyvinyl chloride (PVC) collar of each well. An electric well probe was used for water level measurements and routinely decontaminated before use at each well. Other field parameters including temperature, pH, specific conductivity, dissolved oxygen (DO, measured in milligrams per liter), and oxidation reduction potential (ORP, measured in millivolts) were measured. A YSI®-556 multimeter with a 20 meter cable was used to measure the field parameters. Field parameters were measured in grab samples collected from the monitoring wells during purging; in purge water during pumping of wells; and/or downhole, in most of the wells following purging with a bailer. In the case of McIlhattan Spring, the multiprobe was completely submersed in the spring flow at the sampling location. The measurements were recorded on groundwater sampling logs included in **Appendix B**.

1.1.3 Groundwater Sampling

The groundwater monitoring events occurred between March 25 and 28 (21 wells and stations sampled) and between May 1 – 2, 2014 (10 wells sampled). The May event was for the purpose of re-sampling the new groundwater monitoring wells to confirm results from the initial sampling event and to sample wells MW-18 and MW-25, which had not been drilled prior to the March monitoring event.

In addition to the collection of groundwater samples, water level measurements and field parameters were collected from 26 monitoring wells and one spring. Wells sampled, field measurements, and analyses are summarized in **Table 2**. Locations of wells and other sampling stations are shown in **Figure 2**.

In the March monitoring event, 19 of the 26 monitoring wells and stations were analyzed for volatile organic compounds (VOCs) in accordance with method 8260B MSV Low Level. In addition, the Method 8260 list of constituents was increased from 48 to 58 to include all of the constituents analyzed for the indoor air monitoring project. Selected wells were also analyzed for inorganic constituents in accordance with EPA method 6020 MET ICPMS (metals and cations), method 300.0 IC (anions), and SM 2320B (alkalinity). Samples were also collected for analysis of tritium in accordance with EPA method 906.0.

In the May monitoring event, the new wells were analyzed for VOCs. Wells MW-18 and MW-25 were sampled for the first time. Analysis of samples collected from wells MW-18 and MW-25 included VOCs in accordance with method 8260B MSV Low Level and inorganic constituents in accordance with EPA method 6020 MET ICPMS (metals and cations), method 300.0 IC (anions), and SM 2320B (alkalinity). A sample collected from well MW-18 was analyzed for tritium in accordance with EPA method 906.0. Analytical methods are included with the laboratory analytical report in **Appendix C**.

Pace Analytical Services, Inc. (Pace), in Billings, Montana was contracted to furnish the sample containers, a trip blank, and conduct the analysis of the water samples. For each monitoring event, a trip blank was prepared in Pace's Billings laboratory and consisted of de-ionized water. Upon Pace's receipt of the samples in each monitoring event, the trip blank was analyzed for VOCs (in accordance with Method 8260 Low Level) listed in Appendix I to 40 CFR Part 258

contained in ARM 17.50.1306(7) plus dichlorodifluoromethane. Duplicate samples were collected during each monitoring event. In March, the duplicate sample (DUP-1) was collected from well MW-22 at the same time the natural sample was being collected. In May, the duplicate sample (DUP) was collected from well MW-20 at the same time the natural sample was being collected. Duplicate samples were analyzed for the same constituents as the corresponding natural sample.

Water samples were collected from each monitoring well in accordance with the *Groundwater Monitoring Sampling and Analysis Plan* for the site (Tetra Tech 2010). In general, the following sampling procedures were used:

- Monitoring wells were purged using either dedicated submersible pump(s) and tubing, decontaminated submersible pumps with disposable tubing, or dedicated and/or disposable polyethylene bailers.
- A minimum of three well casing volumes were removed in wells that had suitable recovery, with the objective of sampling “formation” water. In wells with poor recovery, an effort was made to purge to a casing water column that was less than the length of a bailer and then allow the well to recover for sampling and field parameter measurement. Exceptions to purging three casing volumes are noted in the sampling logs.
- Each sample obtained for dissolved metals analysis was filtered, in the field, through a disposable 0.45-micron filter. The samples were filtered directly from the dedicated (or disposable) bailer or pump discharge hose into appropriate labeled containers and preserved with nitric acid.
- All other samples were transferred into appropriate labeled containers and preserved, as necessary.
- Pertinent information (sample date, time, well location, personnel, etc.) was recorded on groundwater monitoring logs. These forms are included in **Appendix B**.
- Samples were packed in ice-filled coolers and shipped with chain-of-custody forms to Pace Analytical Services, Inc., in Billings, Montana. Chain-of-custody forms for the sampling events are included with the laboratory reports in **Appendix C**.
- If only field parameter measurements were conducted on a well, then one casing volume was removed prior to measurement.
- Monitoring activities at the McIlhattan Seep (**Figure 2**) consisted of directly filling the sample bottles where the seep emanates at ground surface.

The March and April 2014 monitoring events field parameter measurements and laboratory analytical results have been entered into Tetra Tech’s database for the project.

2.0 DATA PRESENTATION AND ANALYSIS

Data collected at the Bozeman Landfill during the March and May 2014 monitoring events is summarized in this section. Figures and tables cited in the report are presented at the end of the text. Charts detailing selected constituent concentrations over time and groundwater elevation are presented in **Appendix A**. Boring/monitoring well logs, groundwater sampling logs, chain-of-custody documents, and laboratory analytical reports for the monitoring events are contained in **Appendices B** and **C**, respectively.

2.1 NEW MONITORING WELLS

Ten additional wells were drilled and completed between February and April 2014. These include wells MW-17 through MW-26. The locations of these wells are shown in **Figure 2**. The purpose of these additional wells is to provide groundwater quality information in the vicinity of the southeast area corner of the landfill, as well as shallow groundwater near well LF-3 and in the Bridger Creek Phase II neighborhood along Augusta Drive. Information from these wells will be used in a subsequent investigation to refine the conceptual model understanding the migration of VOCs from the landfill.

The monitoring wells were designed to be screened across the first ‘significant’ intercept to groundwater. Marginally wet zones were noted at shallow locations during the drilling; however, if they did not produce water such that there was an accumulation in the borehole, no well screen was installed for that interval. Several boreholes were allowed to stand open for several hours or overnight so that the accumulation of groundwater could be observed before a well completion interval was selected. Hence, drilling was conducted to a maximum depth of 87 feet in well MW-17 and as shallow as 17 feet in wells MW-22 and MW-23. Static depth to groundwater was measured between 75.62 feet (well MW-17) and 3.11 feet (well MW-22) during the March and May monitoring events.

Drilling of the wells occurred in what is considered to be two hydrogeologic areas at the site. Drilling of wells MW-17 through MW-20, MW-24, and MW-25 occurred in areas where subsurface conditions are anticipated to be similar to the Bozeman Landfill. This area is interpreted to be Tertiary-age unconsolidated sediments deposited by coalescing alluvial fans that form the western flank of the Bridger Mountains (Maxim 1995). The sediments intercepted include sedimentary formations of dominantly sandy to clayey silt or silty clay that in some borings show minor gravels scattered through the section. In other cases there are gravelly intervals in a silt, clay, and/or fine sand matrix interbedded with the finer grained sediments. Groundwater is primarily encountered in the intervals that contain gravel.

A second hydrogeologic area is unconsolidated alluvial sediments of the Bridger Creek and East Gallatin River valleys. Wells MW-21 through MW-23 were drilled in this area. Well MW-26 was also drilled near the boundary or transition between the alluvial fan deposits and the stream alluvium. Sediments include silt and clay with underlying sand and gravel. Groundwater is also shallower in this area. Depth to groundwater in wells MW-21 through MW-23 was between 3.1 and 7.6 feet and in well MW-26 it was 14.1 feet in early May 2014.

Two stratigraphic cross-sections across the southern part of the site are presented on **Figure 3** to provide an idealized representation of the occurrence of the silt/clay and gravelly sediments across the site. The surficial silt/clay sediments can be correlated across the section. Deeper sections of silt/clay sediments appear to be discontinuous between borings. Lithologic

descriptions for each borehole indicated that gravelly sediments appear to have continuity across the section. Groundwater is primarily encountered in the gravelly intervals.

2.2 GROUNDWATER OCCURRENCE AND MOVEMENT

Data collected at the Bozeman Landfill during the March and May 2014 monitoring events are summarized in this section.

Site Depth to Groundwater and Seasonal Variation

During the March monitoring event, depth to first interception of groundwater ranged between approximately 1.4 feet below ground surface (bgs) in well MW-10 near the western margin of the site, 13.3 feet bgs in wells LF-2 and LF-3, 55.7 feet bgs in well MW-12, and 113 feet bgs in well MW-5 at the eastern margin of the site. Seasonal variation of groundwater elevations, since the year 2000, has been an average of 0.9 foot in well MW-10; 0.7 and 0.4 foot in wells LF-2 and LF-3, respectively; 0.3 foot in wells MW-11 and MW-12; and 0.9 foot in well MW-5. **Chart 1** (in **Appendix A**) presents the change in groundwater levels through time in three monitoring wells across the site.

Site Groundwater Flow Direction and Hydraulic Gradient

The March 2014 water levels at the landfill were generally consistent with groundwater elevations measured in previous monitoring events and indicate a southwest groundwater flow beneath the *Unlined Closed Cell* shifting to a west-southwest flow between the *Lined Closed Cell* and well MW-10, at the western margin of the site. Groundwater contours are presented in **Figure 4**.

Groundwater gradients beneath the *Unlined Closed Cell* are a consistent 5.6% between wells MW-15 and MW-12. The groundwater gradient decreases between wells MW-12, LF-2, and into the north portion of Bridger Creek Phase 2 subdivision to approximately 1.8%. The groundwater gradient between wells MW-20 and MW-22 (and the south portion of Bridger Creek Phase 2 subdivision) is approximately 1.55%. The groundwater gradient between wells MW-25 and MW-21 is approximately 1.72%.

2.3 GROUNDWATER QUALITY

A discussion of the March and May 2014 results for analyses of inorganic constituents and VOCs is presented in the following sections. The Groundwater Protection Standard (GWPS) is the concentration of constituents in site upgradient wells MW-5 and MW-15 and/or equal to the United States Environmental Protection Agency (U.S. EPA) Maximum Contaminant Level (MCL). The Montana Human Health Standard (HHS) cited in Circular DEQ-7 Montana Numeric Water Quality Standards (DEQ 2012) is also representative of the GWPS, as in the case of vinyl chloride.

2.3.1 Organic Groundwater Quality

The VOC analysis (8260B MSV Low Level method) includes the analysis of 58 constituents (**Appendix C**). Eighteen VOC constituents were detected during the March and May 2014 monitoring event and included constituents typically detected in previous monitoring events at the site. VOC analytical results are summarized in **Table 4**. Wells or sampling stations with exceedances to GWPS and/or Montana HHS include the following:

- MW-12 and MW-13 - vinyl chloride up to 19.7 micrograms per liter ($\mu\text{g/L}$)
- MW-17 – methylene chloride 5 $\mu\text{g/L}$, tetrachloroethene 15.9 $\mu\text{g/L}$, trichloroethene 5.9 $\mu\text{g/L}$, and vinyl chloride 1.5 $\mu\text{g/L}$
- MW-20 - tetrachloroethene 10.6 $\mu\text{g/L}$

Evaluation of VOC results from the new wells indicates that concentrations are similar to historic observations at the site; however, impacted groundwater extends farther east and southeast than previously thought. The tetrachloroethene result in MW-20 represents an exceedance of the GWPS off of the landfill permit boundary.

Benzene is observed in a few wells on the landfill property and in MW-20 just off of the landfill property, at concentrations well below regulatory standards. Low concentrations were also observed in MW-22 and MW-23 in the Phase II neighborhood. Wells LF-2, LF-3 and MW-19, which are in the Phase III neighborhood and between the landfill and the Phase II neighborhood, reported no detection for benzene in May and only an estimated concentration of 0.24 $\mu\text{g/l}$ in MW-19 in March. Hence, there does not appear to be a connection between the observation of benzene in the Phase II neighborhood and the isolated, low concentrations observed downgradient of the landfill.

Exceedances to the GWPS and/or Montana HHS are highlighted in **Table 4. Figures 5 through 8** present the locations of detections of benzene, tetrachloroethene, trichloroethene, and vinyl chloride for both the March and May 2014 sampling events. In order to provide an understanding of the distribution of VOCs in groundwater across the site, data from the December 2013 monitoring event is also included on **Figures 5 through 8** for wells that were not sampled in March of May 2014. A historical summary of selected VOC constituents is presented in **Table 5**. The GWPS for methylene chloride, tetrachloroethene, and trichloroethene is 5 $\mu\text{g/L}$. The U.S. EPA GWPS for vinyl chloride is 2 $\mu\text{g/L}$. However, the Montana HHS for vinyl chloride is 0.2 $\mu\text{g/L}$ (DEQ 2012).

Trend charts for selected monitoring wells are presented in **Appendix A**. These charts provide an assessment of selected VOC constituent changes through time, both before and after start-up of the landfill gas extraction system. No discussion has been provided with regard to these charts.

2.3.2 Inorganic Groundwater Quality

In addition to VOCs, several inorganic constituents were analyzed and include chloride, sulfate, selected cations (including iron), and alkalinity. Monitoring stations where inorganic constituents were higher than the analytical practical quantitation limit (PQL) or of note are listed below:

- Iron concentrations in the new monitoring wells were less than 0.05 milligrams per liter (mg/L) except for well MW-18 with a concentration of 0.74 mg/L. Wells MW-15, MW-12, and MW-10 were also sampled for iron. Well MW-15 was below the analytical minimum detection limit (MDL) of 0.008 mg/L. Wells MW-12 and MW-10 had iron concentrations of 4.7 and 3.6 mg/L. Wells MW-12 and MW-10 have the highest iron concentrations (generally above 2 mg/L).
- Chloride concentrations in the new monitoring wells ranged between 5.2 and 103 mg/L. Wells MW-8A, MW-10, MW-18, and MW-20 had chloride concentrations greater than 68 mg/L. Background chloride concentrations appear to range between 4.2 and 29.8 mg/L.

- Sulfate concentrations in the new monitoring wells ranged between 13.6 and 81.3 mg/L. Wells MW-8A, MW-10, and MW-20 had sulfate concentrations over 50 mg/L. Background sulfate concentrations appear to range between 13.5 and 29.3 mg/L.
- Total alkalinity concentrations in the new monitoring wells ranged between 188 and 762 mg/L. Review of the March and June monitoring results indicates that background alkalinity concentrations appear to be less than 300 mg/L.
- Tritium can be an indicator of landfill leachate contributions to groundwater with mean concentrations in the range of 33,000 to 99,000 pCi/L as reported in landfills in New York, New Jersey and California (http://www.hydroqual.com/publications/rdm_07_01_p.pdf). The EPA's Maximum Contaminant Level for tritium is 20,000 pCi/L. Tritium was used in paints applied to road signs, in gaseous tritium lighting devices used in some emergency exit signs, compasses, watches, and even novelty items, such as "glow stick" key chains. It is not typically found at elevated levels in natural environments, hence, it can be an effective indicator of leachate impacts to groundwater. At the Bozeman Landfill site, tritium concentrations in groundwater ranged between -146 ± 124 (234) pCi/L to 87.7 ± 127 (213) pCi/L. The highest reported concentration in the Bozeman landfill wells is well below what would be indicative of significant leachate impacts to groundwater. In some cases, negative values are listed. Negative numbers can occur because the net tritium count rate is, in principle the difference between the count rate of the sample and that of a tritium-free sample (background count or blank sample). Given a set of "unknown" samples with no tritium, the distribution of net results should become symmetrical around zero. Except for use in statistical treatment of sets of the data, negative values should be considered as zero (<http://www.rsmas.miami.edu/groups/tritium/analytical-services/results/tritium/>).

3.0 DATA VALIDATION

This section describes the data validation process used to determine the adequacy and quality of March and May 2014 laboratory analytical data at the Bozeman Landfill. The objective of data validation is to identify any unreliable or invalid laboratory measurements and qualify that data for interpretive use. These validations were performed according to guidelines prepared by the U.S. EPA (1994a and 1994b).

3.1 FIELD QA/QC

Analytical results were evaluated using field duplicate samples and trip blanks. Results of the QA/QC evaluation are discussed below.

Field Duplicates

A duplicate sample (labeled "Dup-1") was collected from well MW-22 during the March 2014 monitoring event. A duplicate sample (labeled "Dup") was collected from well MW-20 during the May 2014 monitoring event. These duplicates were shipped with the other natural samples with each shipment to Pace Analytical Services, Inc., in Billings, Montana for analysis of VOCs and inorganic constituents. A trip blank also accompanied the groundwater samples collected in March and May 2014. Each trip blank was labeled "Trip Blank", and consisted of deionized water containerized by the laboratory, shipped to Tetra Tech's Bozeman, Montana office with the sample containers, and shipped back to the laboratory with the samples upon conclusion of the field activities. The trip blank was analyzed for VOCs.

Field duplicate results aid in the assessment of sampling and analytical precision. Analytical results for the natural and duplicate samples collected from wells MW-20 and MW-22 were evaluated using the following criteria:

- The Relative Percent Difference (RPD) between the two samples was calculated when both values of the natural/duplicate pair were greater than five times the Minimum Detection Limit (MDL) for a given analyte.
- The Absolute Value Difference (AVD) between the natural and duplicate sample for a given analyte was calculated when one or both values were less than five times the MDL.

RPDs are calculated by dividing the difference between the two reported values for a given constituent by the average of the two reported values. Analytical results of constituents where the RPD was greater than 20 percent are considered estimated concentrations. Analytical results between the natural and duplicate samples collected from well MW-22 had no RPDs greater than 20 percent.

AVDs are calculated by subtracting the results of the two reported values for a given constituent. If the difference exceeds the MDL, then results for this constituent are considered estimated. Benzene concentrations in the natural and duplicate samples collected from well MW-20 (in May 2014) had an AVD greater than the MDL. Therefore, the benzene concentration of 0.69 µg/L in the natural sample collected from well MW-20 was flagged as estimated.

Trip Blanks

All trip blank results were evaluated using the following criteria:

- For detected constituents, all results greater than the MDL but less than five times the concentration of the detected constituent are considered estimated and are likely biased towards the high end.
- The following constituents are common laboratory contaminants and are considered estimated when results are greater than the MDL but less than 10 times the concentration in the contaminated blank:
 - Acetone
 - 2-butanone
 - Methylene chloride

Analytical results of the trip blank sample were reviewed to determine if any constituent was measured in the sample at detectable concentrations. Acetone was detected in an estimated concentration of 10.4 µg/L and methylene chloride was detected at 4.8 µg/L in the March 2014 trip blank. No constituents were detected in the May 2014 trip blank.

Acetone was detected in well MW-20 in March but was already flagged as estimated due to the concentration being between the MDL and PQL. Methylene chloride was detected in well MW-17 in March at a concentration of 5 µg/L and is therefore, flagged as estimated. Methylene chloride was again detected in the re-sampling of well MW-17 during May.

3.2 LABORATORY QA/QC

Pace Analytical received groundwater samples collected from the City of Bozeman Landfill on March 29 and May 6, 2014. Chain-of-custody documents accompanied the samples from collection to receipt at the laboratory. All samples were properly preserved and all samples were analyzed within the respective holding time for each analyte (unless otherwise noted on the report via a qualifier). The lab personnel at Pace Analytical reviewed calibration standards, calibration verification, laboratory controls, laboratory duplicates, and laboratory spikes on a daily basis.

Review of all other laboratory quality assurance indicators showed all inorganic and organic analyses were in compliance with published QA/QC criteria and within the laboratory precision and accuracy guidelines. System performance checks were also performed to evaluate proper system performance and calibration for VOC and semi-volatile analyses. All data indicate the GC/MS system was performing properly.

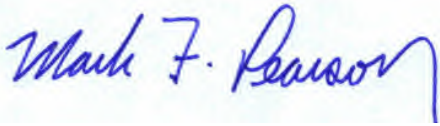
With regard to the VOCs' method 8260 analysis, the laboratory report listed several constituents that may be biased low or high due to calibration outside Pace's limits. However, none of these constituents listed in the laboratory report were detected in the sampled wells or stations.

4.0 SUMMARY

The following summarizes data, calculations, and interpretations resulting from the February and March well installations and March and May 2014 groundwater monitoring events at the Bozeman Landfill:

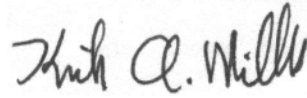
- Ten additional wells were drilled and completed between February and March 2014 and were screened across the first 'significant' intercept to groundwater. Drilling was conducted to a maximum depth of 87 feet in well MW-17 and as shallow as 17 feet in wells MW-22 and MW-23. Static depth to groundwater was measured between 75.62 feet (well MW-17) and 3.11 feet (well MW-22) during the March and May monitoring events. Lithologic descriptions for each borehole indicated that gravelly sediments appear to have continuity across the section. Groundwater is primarily encountered in the gravelly intervals.
- During the March monitoring event, the range in depth to first interception of groundwater was between approximately 1.4 feet bgs in well MW-10 near the western margin of the site and 113 feet bgs in well MW-5 at the eastern margin of the site.
- The March 2014 water levels at the landfill were generally consistent with groundwater elevations measured in previous monitoring events and indicate a southwest groundwater flow beneath the *Unlined Closed Cell*. Groundwater flow appears to shift to a west-southwest direction in the southern part of the site, i.e. between wells MW-24 and MW-23.
- Eighteen VOC constituents were detected during the March and May 2014 monitoring events and included constituents typically detected in previous groundwater monitoring events at the site. Wells or sampling stations with exceedances to GWPS and/or Montana HHS include wells MW-12 and MW-13 with vinyl chloride to 19.7 µg/L; well MW-17 with methylene chloride 5 µg/L, tetrachloroethene 15.9 µg/L, trichloroethene 5.9 µg/L, and vinyl chloride 1.5 µg/L; and well MW-20 with tetrachloroethene 10.6 µg/L.
- Evaluation of VOC results from the new wells indicates that concentrations are similar to historic observations at the site; however, impacted groundwater extends farther east and southeast than previously thought. The tetrachloroethene result in MW-20 represents an exceedance of the GWPS off of the landfill permit boundary.
- Benzene is observed in a few wells on the landfill property and in MW-20 just off of the landfill property, at concentrations well below regulatory standards. Low concentrations were also observed in MW-22 and MW-23 in the Phase II neighborhood. Wells LF-2, LF-3 and MW-19, which are in the Phase III neighborhood, and between the landfill and the Phase II neighborhood, reported no detection of benzene in May and only an estimated concentration in MW-19 in March. Hence, there does not appear to be a connection between the observation of benzene in the Phase II neighborhood and the isolated, low concentrations observed near the landfill.

Prepared by:



Mark F. Pearson
Project Hydrogeologist

Reviewed by:



Kirk A. Miller
Senior Project Manager

5.0 REFERENCES

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Maxim, 1995. *Corrective Measures Assessment, City of Bozeman Sanitary Landfill, Bozeman, Montana.* August.

U.S. EPA, 1994a. *U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.* Office of Emergency and Remedial Response. February.

U.S. EPA, 1994b. *U.S. EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.* Office of Emergency and Remedial Response. February.

ONLINE REFERENCES

U.S. EPA Groundwater Protection Standard for Vinyl Chloride:

<http://water.epa.gov/drink/contaminants/index.cfm#List>

Montana DEQ Solid Waste Program Laws and Rules:

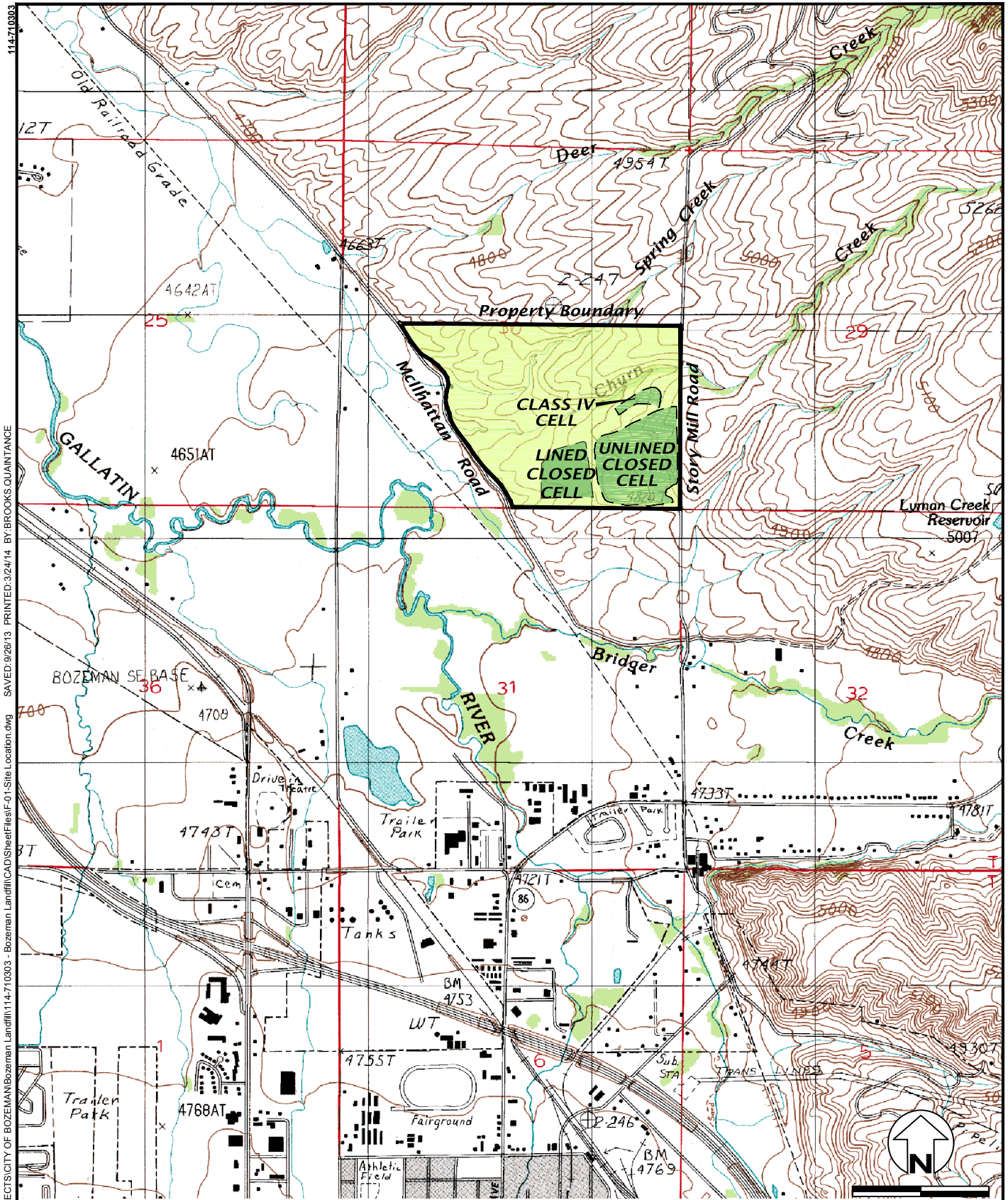
<http://www.deq.mt.gov/SolidWaste/LawsRules.mcpX>

Hydroqual, Inc. Manhattan College and Columbia University, A Study of Tritium In Municipal Solid Waste Leachate and Gas: http://www.hydroqual.com/publications/rdm_07_01_p.pdf

University of Miami Rosenstiel School of Marine and Atmospheric Science

Negative Values in Very Low Tritium Values: <http://www.rsmas.miami.edu/groups/tritium/analytical-services/results/tritium/>

FIGURES



N:\PROJECTS\CITY OF BOZEMAN\Bozeman Landfill\114-710303 - Bozeman Landfill\CAD\SheetFiles\F-01-Site Location.dwg SAVED: 9/26/13 PRINTED: 3/24/14 BY: BROOKS.QUAINANCE
 114-710303

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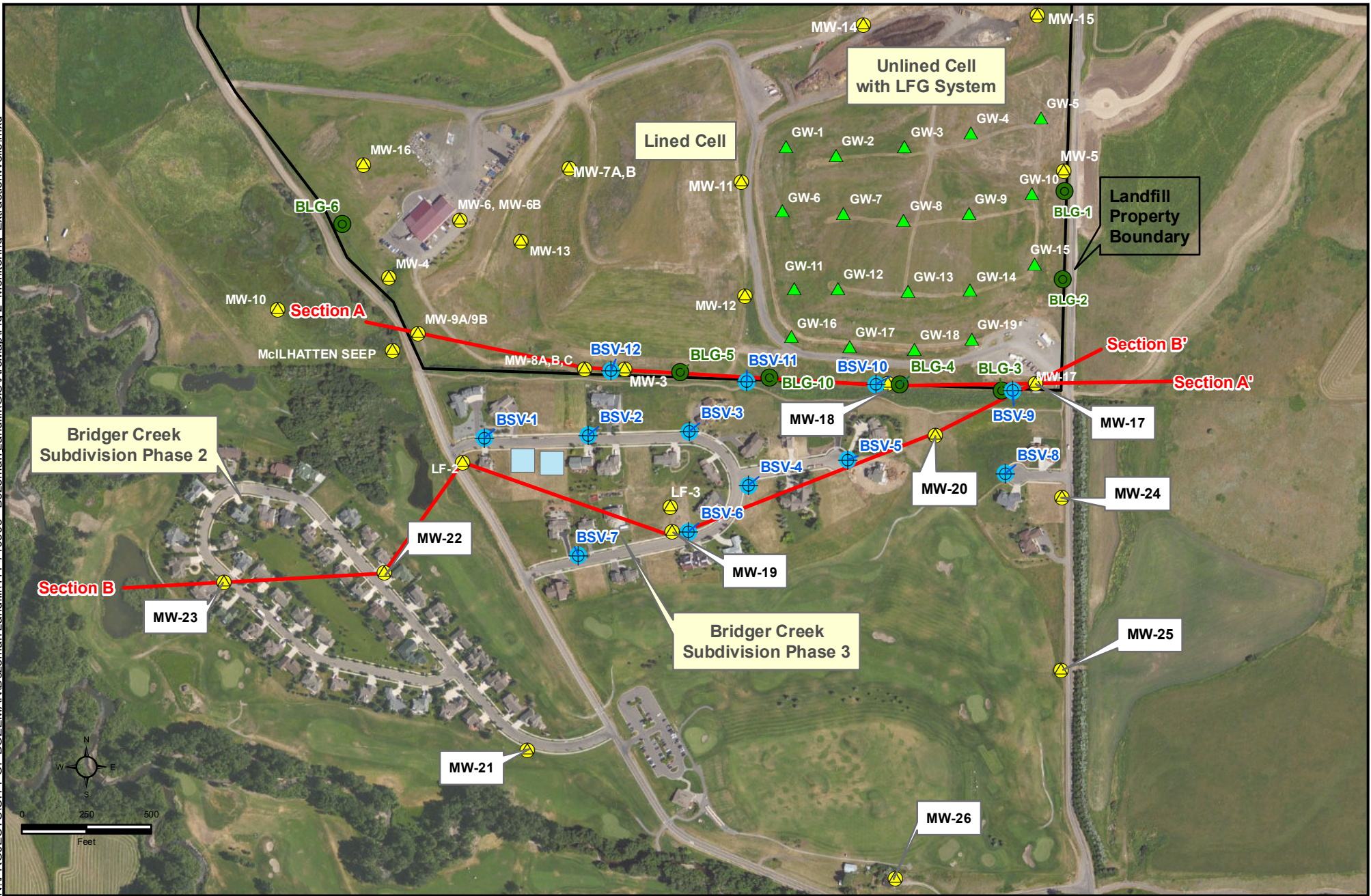
From USGS 7.5' Bozeman Quad (1987)



114-710326.400

Site Location Map
 Bozeman Sanitary Landfill
 Bozeman, Montana
 FIGURE 1

N:\PROJECTS\CITY OF BOZEMAN\Bozeman Landfill\114-710303 - Bozeman Landfill\GIS\ArcMap\Fig 2_Monitoring_ExtractionWells.mxd

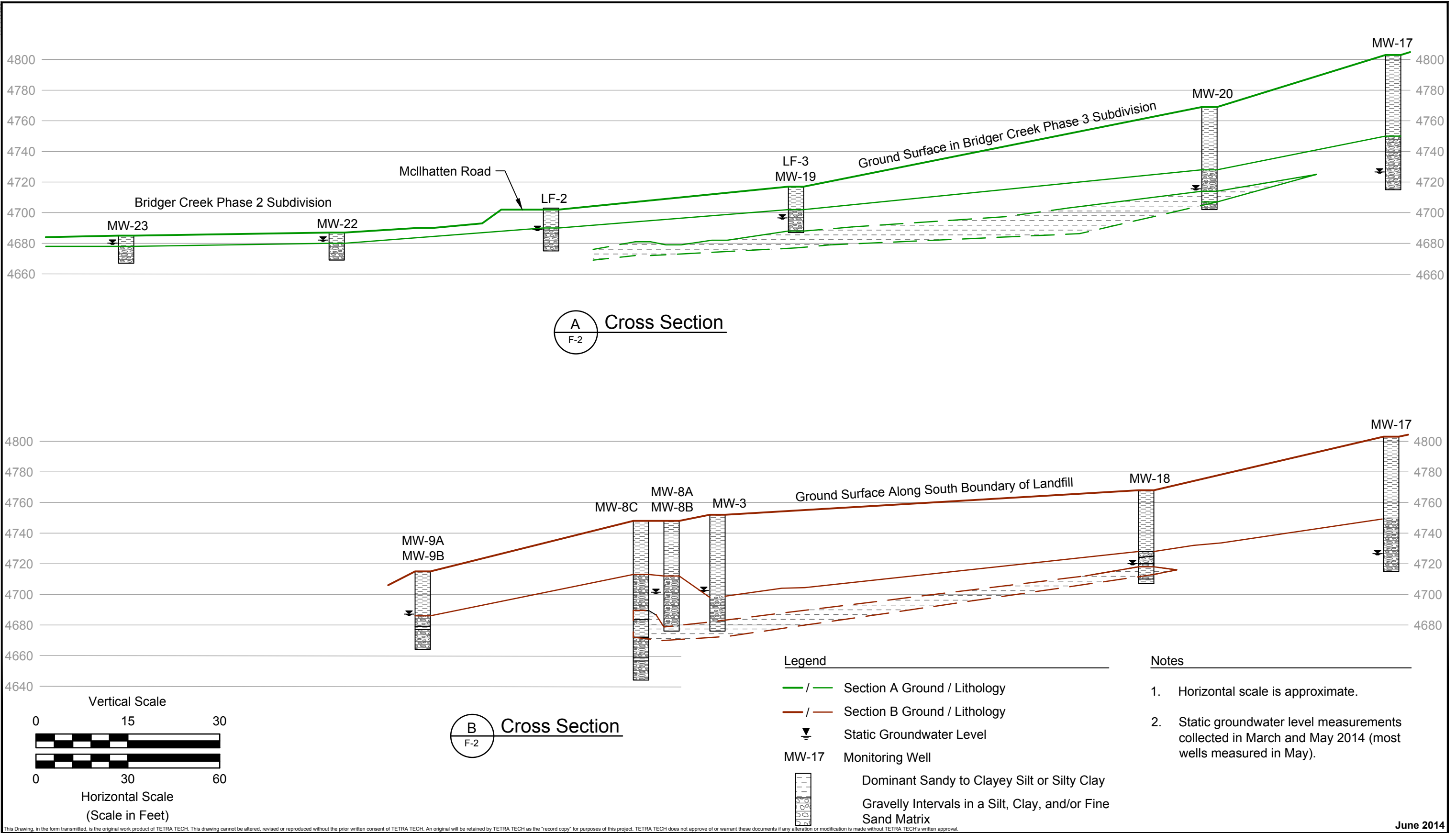


- ⊕ Soil Gas Probe
- △ Groundwater Monitoring Well (Wells labelled in white box callouts were drilled/installed in February and March 2014)
- Methane Monitoring Well

- △ Landfill Gas Extraction Well
- Stratigraphic Cross Section Line (shown in Figure 3)
- New Residential Construction

**Site Plan with Monitoring Stations and Extraction Wells
Bozeman Landfill
Bozeman, Montana
FIGURE 2**

114-710326
 N:\PROJECTS\CITY OF BOZEMAN\Bozeman Landfill\114-710303 - Bozeman Landfill\CAD\SheetFiles\F-03-Stratigraphic Cross Sections.dwg
 SAVER: 7/8/14 BY: ROSS.DAVENPORT



June 2014

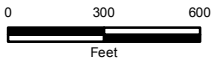
**Stratigraphic Cross Sections
 Bozeman Landfill
 Bozeman, Montana**

FIGURE 3





114-710326.700



Datum: NAD83 StatePlane Montana

NOTE:
 All well locations are approximate.
 Only those wells used for preparation of groundwater contour map are shown

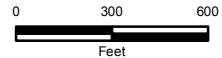
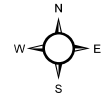
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**March 2014 - Groundwater Contour Map
 Bozeman Landfill
 Bozeman, Montana
 FIGURE 4**



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

114-710326.700



Datum: NAD83 StatePlane Montana

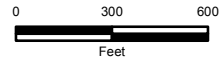
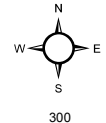
NOTE:
 All well locations are approximate
 (): December 2013 Benzene Concentration
 March 2014/May 2014 Benzene Concentration
 J: Indicates Estimated Concentration (less than analytical practical quantitation limit)
 1.7: Concentration in micrograms per liter
 ND: Not Detected Above Minimum Detection Limit
 Bolded concentrations of constituent indicate exceedance of groundwater protection standard

**Concentrations of Benzene in March/May 2014
 Bozeman Landfill
 Bozeman, Montana
 FIGURE 5**



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

114-710326.700




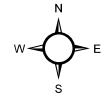
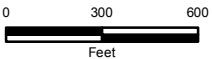
Datum: NAD83 StatePlane Montana

NOTE:
 All well locations are approximate
 (): December 2013 Tetrachloroethene Concentration
 March 2014/May 2014 Tetrachloroethene Concentration
 J: Indicates Estimated Concentration (less than analytical practical quantitation limit)
 0.87: Concentration in micrograms per liter
 ND: Not Detected Above Minimum Detection Limit
 Bolded concentrations of constituent indicate exceedance of groundwater protection standard (5 µg/L)

**Concentrations of Tetrachloroethene in March/May 2014
 Bozeman Landfill
 Bozeman, Montana
 FIGURE 6**



114-710326.700

Datum: NAD83 StatePlane Montana

NOTE:
 All well locations are approximate
 (): December 2013 Trichloroethene Concentration
 March 2014/May 2014 trichloroethene Concentration
 J: Indicates Estimated Concentration (less than analytical practical quantitation limit)
 0.87: Concentration in micrograms per liter
 ND: Not Detected Above Minimum Detection Limit
 Bolded concentrations of constituent indicate exceedance of groundwater protection standard

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**Concentrations of Trichloroethene in March/May 2014
 Bozeman Landfill
 Bozeman, Montana
 FIGURE 7**



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

114-710326.700

Datum: NAD83 StatePlane Montana

NOTE:
 All well locations are approximate
 (): December 2013 Vinyl Chloride Concentration
 March 2014/May 2014 Vinyl Chloride Concentration
 J: Indicates Estimated Concentration (less than analytical practical quantitation limit)
 3.3: Concentration in micrograms per liter
 ND: Not Detected Above Minimum Detection Limit
 Bolded concentrations of constituent indicate exceedance of groundwater protection standard

**Concentrations of Vinyl Chloride in March/May 2014
 Bozeman Landfill
 Bozeman, Montana
 FIGURE 8**



TABLES

TABLE 1
SUMMARY OF ADDITIONAL MONITORING WELL SPECIFICATIONS
BOZEMAN LANDFILL, BOZEMAN, MONTANA

| MONITORING WELL | MEASURING POINT ELEVATION | GROUND SURFACE ELEVATION | LENGTH OF SCREEN | Depth below Ground Surface | | | | FIRST INTERCEPT TO WATER (1) | STATIC DEPTH TO WATER (2) | GROUND WATER ELEVATION | SCREEN THICKNESS SATURATED INTERVAL |
|-----------------|---------------------------|--------------------------|------------------|----------------------------|---------------------------|-----------------------------|------------------|------------------------------|---------------------------|------------------------|-------------------------------------|
| | | | | DEPTH TO TOP OF SCREEN | DEPTH TO BOTTOM OF SCREEN | DEPTH TO TOP OF FILTER PACK | WELL TOTAL DEPTH | | | | |
| MW- 17 | 4,810.03 | 4,808.40 | 15 | 70.0 | 85.0 | 67.7 | 87.0 | -- | 75.62 | 4734.41 | 9.4 |
| MW- 18 | 4,772.36 | 4,772.62 | 20 | 39.0 | 59.0 | 38.0 | 61.0 | 49.5 | 47.22 | 4725.14 | 11.8 |
| MW- 19 | 4,724.94 | 4,725.44 | 15 | 13.0 | 28.0 | 12.0 | 30.5 | 22.0 | 21.36 | 4703.58 | 6.6 |
| MW- 20 | 4,778.01 | 4,778.45 | 15 | 50.0 | 65.0 | 48.0 | 67.0 | 60.0 | 52.98 | 4725.03 | 12.0 |
| MW- 21 | 4,704.56 | 4,704.83 | 10 | 7.5 | 17.5 | 6.5 | 18.0 | 11.3 | 7.63 | 4696.93 | 9.9 |
| MW- 22 | 4,693.62 | 4,693.94 | 10 | 6.0 | 16.0 | 5.5 | 17.0 | 8.0 | 3.11 | 4690.51 | 12.9 |
| MW- 23 | 4,689.79 | 4,690.14 | 10 | 6.0 | 16.0 | 5.5 | 17.0 | 8.5 | 4.62 | 4685.17 | 11.4 |
| MW- 24 | 4,804.52 | 4,804.89 | 20 | 60.5 | 80.5 | 58.5 | 80.5 | 74.5 | 74.33 | 4730.19 | 6.2 |
| MW- 25 | 4,775.45 | 4,775.57 | 15 | 48.0 | 63.0 | 46.5 | 64.0 | 49.5 | 50.22 | 4725.23 | 12.8 |
| MW- 26 | 4,732.82 | 4,732.96 | 20 | 13.0 | 33.0 | 12.0 | 38.0 | 35+ | 14.08 | 4718.74 | 18.9 |

Notes : All measurement units in feet

Elevations in feet above mean sea level

Ground surface elevation is adjacent to monitoring station

-- : Not applicable due to observation of shallower perched groundwater intervals

(1) : Measured during drilling of well

(2) : Depth to groundwater measured in March or May 2014

TABLE 2
Schedule of Field Measurements and Laboratory Analysis - March and May 2014
Bozeman Landfill, Bozeman, Montana

| Well or Sampling Site | Monitoring Date (in 2014) | Depth to Groundwater | Field pH, SC, DO & ORP | VOCs Method 8260 | Inorganics | | |
|-----------------------|------------------------------|----------------------|------------------------|------------------|-----------------------|------------------------|-------------------|
| | | | | | Fe, Mg (dissolved) | Tritium (dissolved) | Cations Anions |
| LF-2 | March 2014 | X | X | X | -- | -- | -- |
| LF-3 | March 2014 | X | X | X | -- | -- | -- |
| MW-4 | March 2014 | X | X | X | -- | -- | X |
| MW-5 | March 2014 | X | -- | -- | -- | -- | -- |
| MW-6 | March 2014 | X | X | -- | -- | -- | X |
| MW-6B | March 2014 | -- | -- | -- | -- | -- | X |
| MW-7A | NS | -- | -- | -- | -- | -- | -- |
| MW-7B | NS | -- | -- | -- | -- | -- | -- |
| MW-8A | March 2014 | X | X | X | -- | -- | X |
| MW-8B | NS | -- | -- | -- | -- | -- | -- |
| MW-8C | March 2014 | -- | -- | -- | -- | -- | X |
| MW-9A | March 2014 | X | X | -- | -- | -- | -- |
| MW-9B | NS | -- | -- | -- | -- | -- | -- |
| MW-10 | March 2014 | X | X | X | X | X | X |
| MW-11 | March 2014 | X | -- | -- | -- | -- | -- |
| MW-12 | March 2014 | X | X | X | X | X | X |
| MW-13 | March 2014 | X | X | X | -- | -- | -- |
| MW-14 | March 2014 | X | -- | -- | -- | -- | -- |
| MW-15 | March 2014 | X | X | X | X | X | X |
| MW-16 | March 2014 | X | -- | -- | -- | -- | X |
| MW-17 | March, May 2014 | X | X | X | X | X | X |
| MW-18 | May 2014 | X | X | X | X | X | X |
| MW-19 | March, May 2014 | X | X | X | X | X | X |
| MW-20 | March, May 2014 | X | X | X | X | X | X |
| MW-21 | March, May 2014 | X | X | X | X | X | X |
| MW-22 | March, May 2014 | X | X | X | X | X | X |
| MW-23 | March, May 2014 | X | X | X | X | X | X |
| MW-24 | March, May 2014 | X | X | X | X | X | X |
| MW-25 | May 2014 | X | X | X | X | -- | X |
| MW-26 | March, May 2014 | X | X | X | X | X | X |
| Shop/Office Well | NS | -- | -- | -- | -- | -- | -- |
| Mclhatten Seep | March 2014 | -- | -- | X | -- | -- | -- |
| Valley View Vet Well | NS | -- | -- | -- | -- | -- | -- |

NOTE:

NS Not Sampled

TABLE 3
Groundwater Levels
Bozeman Landfill, Bozeman Montana

| MP elev change | MEASURING POINT ELEVATION (in feet above mean sea level) | | | | | | | | | | | | 4,727.23 | |
|-------------------|--|---------|----------|---------|----------|---------|----------|---------|----------|---------|-------------------|---------|----------|---------|
| | 4702.71 | | 4717.10 | | 4,751.89 | | 4,710.90 | | 4,882.37 | | 4738.68 | | | |
| | 6/4/2014 | 4709.50 | 6/4/2014 | 4723.59 | 6/4/2014 | 4759.77 | 6/4/2014 | 4717.87 | 6/4/2014 | 4888.98 | 6/4/2014 | 4734.14 | | |
| Well No. | LF-2 | | LF-3 | | MW-3 | | MW-4 | | MW-5 | | MW-6 ¹ | | MW-6B | |
| DATE | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV |
| 05/86 | 14.20 | 4688.51 | 15.50 | 4701.60 | 48.76 | 4703.13 | 20.60 | 4690.30 | N.M. | ----- | N.M. | ----- | | |
| 10/22/1986 | 14.53 | 4688.18 | 15.20 | 4701.90 | 48.87 | 4703.02 | 20.64 | 4690.26 | N.M. | ----- | N.M. | ----- | | |
| 08/92 | N.M. | ----- | N.M. | ----- | N.M. | ----- | N.M. | ----- | N.M. | ----- | 45.40 | 4693.28 | | |
| 2/24/1993 | N.M. | ----- | 16.39 | 4700.71 | N.M. | ----- | 22.35 | 4688.55 | 112.66 | 4769.71 | 43.57 | 4695.11 | | |
| 7/27/1993 | 14.52 | 4688.19 | 15.10 | 4702.00 | 49.91 | 4701.98 | 21.73 | 4689.17 | 111.60 | 4770.77 | 43.35 | 4695.33 | | |
| 1/17/1994 | 14.72 | 4687.99 | 14.85 | 4702.25 | 49.50 | 4702.39 | 20.70 | 4690.20 | 110.76 | 4771.61 | 43.02 | 4695.66 | | |
| 6/27/1994 | 15.42 | 4687.29 | 15.45 | 4701.65 | 50.34 | 4701.55 | 20.97 | 4689.93 | 110.26 | 4772.11 | 42.91 | 4695.77 | | |
| 2/1/1995 | 14.43 | 4688.28 | 14.72 | 4702.38 | 50.41 | 4701.48 | 20.67 | 4690.23 | 110.71 | 4771.66 | 42.88 | 4695.80 | | |
| 6/28/1995 | 14.7 | 4688.01 | 14.88 | 4702.22 | 50.27 | 4701.62 | 20.08 | 4690.82 | 110.06 | 4772.31 | 42.71 | 4695.97 | | |
| 11/28/1995 | 14.39 | 4688.32 | 15.33 | 4701.77 | 49.87 | 4702.02 | 20.51 | 4690.39 | 109.70 | 4772.67 | 42.80 | 4695.88 | | |
| 6/25/1996 | 13.68 | 4689.03 | 13.92 | 4703.18 | 49.30 | 4702.59 | 20.78 | 4690.12 | 109.50 | 4772.87 | 42.55 | 4696.13 | | |
| 12/11/1996 | 14.29 | 4688.42 | 14.34 | 4702.76 | 48.82 | 4703.07 | 20.3 | 4690.60 | 110.10 | 4772.27 | 44.77 | 4693.91 | | |
| 6/19/1997 | 12.31 | 4690.40 | 12.40 | 4704.70 | 47.07 | 4704.82 | 13.39 | 4697.51 | 108.64 | 4773.73 | 39.85 | 4698.83 | | |
| 12/15/1997 | 14.16 | 4688.55 | 14.00 | 4703.10 | 48.02 | 4703.87 | 20.37 | 4690.53 | 106.71 | 4775.66 | 42.73 | 4695.95 | | |
| 6/30/1998 | 13.21 | 4689.50 | 12.98 | 4704.12 | N.M. | ----- | 19.27 | 4691.63 | 106.10 | 4776.27 | 30.95 | 4697.74 | | |
| 12/14/1998 | 14.32 | 4688.39 | 13.82 | 4703.28 | 47.97 | 4703.92 | 20.37 | 4690.53 | 105.75 | 4776.62 | 31.24 | 4697.45 | | |
| 6/22/1999 | 14.07 | 4688.64 | 13.53 | 4703.57 | 47.74 | 4704.15 | 20.25 | 4690.65 | 106.01 | 4776.36 | 31.13 | 4697.56 | | |
| 12/14/1999 | 14.42 | 4688.29 | 14.31 | 4702.79 | 48.22 | 4703.67 | 20.54 | 4690.36 | 106.86 | 4775.51 | 31.33 | 4697.36 | | |
| 6/8/2000 | N.M. | ----- | 13.98 | 4703.12 | 48.28 | 4703.61 | 20.47 | 4690.43 | 108.22 | 4774.15 | 31.33 | 4697.36 | | |
| 11/28/2000 | 14.53 | 4688.18 | 14.23 | 4702.87 | 48.77 | 4703.12 | 20.69 | 4690.21 | 109.69 | 4772.68 | 31.53 | 4697.16 | | |
| 6/1/2001 | 14.27 | 4688.44 | 13.97 | 4703.13 | 48.91 | 4702.98 | 20.60 | 4690.30 | 110.61 | 4771.76 | 31.66 | 4697.03 | | |
| 12/17/2001 | 14.63 | 4688.08 | 14.01 | 4703.09 | 49.40 | 4702.49 | 20.83 | 4690.07 | 111.77 | 4770.60 | 31.79 | 4696.90 | | |
| 6/13/2002 | 13.31 | 4689.40 | 13.66 | 4703.44 | 48.59 | 4703.30 | 19.72 | 4691.18 | 112.47 | 4769.90 | 31.59 | 4697.10 | | |
| 12/12/2002 | 14.78 | 4687.93 | 14.22 | 4702.88 | 49.85 | 4702.04 | 20.92 | 4689.98 | 113.26 | 4769.11 | 31.87 | 4696.82 | | |
| 6/10/2003 | 14.20 | 4688.51 | 14.02 | 4703.08 | 49.35 | 4702.54 | 20.41 | 4690.49 | 113.52 | 4768.85 | 31.79 | 4696.90 | | |
| 12/3/2003 | 14.92 | 4687.79 | 14.35 | 4702.75 | 50.32 | 4701.57 | 21.02 | 4689.88 | 114.30 | 4768.07 | 31.96 | 4696.73 | | |
| 6/8/2004 | 14.36 | 4688.35 | 14.23 | 4702.87 | 50.13 | 4701.76 | 20.72 | 4690.18 | 114.94 | 4767.43 | 31.95 | 4696.74 | | |
| 12/6/2004 | 14.71 | 4688.00 | 14.71 | 4702.39 | 50.53 | 4701.36 | 20.99 | 4689.91 | 115.68 | 4766.69 | 32.43 | 4696.26 | | |
| 6/16/2005 | 14.13 | 4688.58 | 14.13 | 4702.97 | 50.05 | 4701.84 | 20.57 | 4690.33 | 116.01 | 4766.36 | 31.92 | 4696.77 | | |
| 12/14/2005 | 14.86 | 4687.85 | 14.29 | 4702.81 | 50.72 | 4701.17 | 20.98 | 4689.92 | 116.85 | 4765.52 | 32.07 | 4696.62 | | |
| 3/16/2006 | N.M. | ----- | 14.02 | 4703.08 | N.M. | ----- | N.M. | ----- | N.M. | ----- | 31.94 | 4696.75 | | |
| 6/12/2006 | 13.95 | 4688.76 | 14.85 | 4702.25 | N.M. | ----- | 21.80 | 4689.10 | 114.39 | 4767.98 | 31.90 | 4696.79 | | |
| 12/2006 to 6/2010 | No entry of DTW data | | | | | | | | | | | | | |
| 12/1/2010 | 14.32 | 4688.39 | 13.81 | 4703.29 | N.M. | ----- | 20.69 | 4690.21 | 111.97 | 4770.40 | 31.52 | 4697.17 | | |
| 6/13/2011 | 12.73 | 4689.98 | 12.66 | 4704.44 | N.M. | ----- | 19.29 | 4691.61 | 110.63 | 4771.74 | 30.99 | 4697.70 | | |
| 12/5/2011 | 14.29 | 4688.42 | 13.71 | 4703.39 | N.M. | ----- | 20.48 | 4690.42 | 110.05 | 4772.32 | 31.40 | 4697.29 | | |
| 6/5/2012 | 14.12 | 4688.59 | 13.52 | 4703.58 | N.M. | ----- | 20.39 | 4690.51 | 110.12 | 4772.25 | 31.29 | 4697.40 | 18.69 | 4708.54 |
| 12/4/2012 | 14.26 | 4688.45 | 13.93 | 4703.17 | 49.24 | 4702.65 | 20.73 | 4690.17 | 111.31 | 4771.06 | 31.44 | 4697.25 | 19.40 | 4707.83 |
| 6/12/2013 | 14.05 | 4688.66 | 14.33 | 4702.77 | N.M. | ----- | 20.69 | 4690.21 | 112.36 | 4770.01 | 31.47 | 4697.22 | 19.25 | 4707.98 |
| 12/18/2013 | 14.28 | 4688.43 | 13.77 | 4703.33 | N.M. | ----- | 20.75 | 4690.15 | 113.12 | 4769.25 | 31.56 | 4697.13 | 19.34 | 4707.89 |
| 3/26/2014 | 13.30 | 4696.20 | 13.22 | 4710.37 | N.M. | ----- | 19.86 | 4698.01 | 113.02 | 4775.96 | 31.33 | 4702.81 | 19.34 | 4713.33 |

MP elev change : Measuring point elevation change

DTW : Depth to water below measuring point (feet)

N.M. Not measured

ELEV : Groundwater elevation above mean sea level (feet). Well locations shown on Figure 2.

----- Not calculated

1 : 9.99 feet of PVC was removed on 06/30/1998.

TABLE 2 (Continued)
Groundwater Levels
Bozeman Landfill, Bozeman Montana

| MP elev change | MEASURING POINT ELEVATION (in feet above mean sea level) | | | | | | | | | | | | | |
|-------------------|--|---------|--------------------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
| | 4755.51 | | 4755.52 | | 4748.22 | | 4747.98 | | 4747.63 | | 4715.27 | | 4715.50 | |
| | 7/6/2011 | 4757.87 | 7/6/2011 | 4757.95 | 6/4/2014 | 4754.58 | 7/3/2012 | 4748.47 | 6/4/2014 | 4753.98 | 6/4/2014 | 4722.11 | 6/4/2014 | 4722.32 |
| | 6/4/2014 | 4764.64 | 6/4/2014 | 4764.71 | 6/4/2014 | 4754.58 | 6/4/2014 | 4754.84 | 6/4/2014 | 4753.98 | 6/4/2014 | 4722.11 | 6/4/2014 | 4722.32 |
| Well No. | MW-7A ² | | MW-7B ² | | MW-8A | | MW-8B | | MW-8C | | MW-9A | | MW-9B | |
| DATE | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV |
| 08/92 | 55.50 | 4700.01 | N.M. | ----- | 46.90 | 4701.32 | 48.50 | 4699.48 | | | 27.75 | 4687.52 | N.M. | ----- |
| 2/24/1993 | 55.11 | 4700.40 | 55.25 | 4700.27 | 48.81 | 4699.41 | 48.96 | 4699.02 | | | 29.66 | 4685.61 | 29.97 | 4685.53 |
| 7/27/1993 | 54.35 | 4701.16 | 54.55 | 4700.97 | 47.69 | 4700.53 | 47.90 | 4700.08 | | | 28.59 | 4686.68 | 28.84 | 4686.66 |
| 1/17/1994 | 49.50 | 4706.01 | 49.48 | 4706.04 | 47.69 | 4700.53 | 47.99 | 4699.99 | | | 28.96 | 4686.31 | 29.31 | 4686.19 |
| 6/27/1994 | 54.43 | 4701.08 | 54.42 | 4701.10 | 47.51 | 4700.71 | 47.81 | 4700.17 | | | 28.77 | 4686.50 | 29.05 | 4686.45 |
| 2/1/1995 | 54.43 | 4701.08 | 54.45 | 4701.07 | 47.82 | 4700.40 | 47.53 | 4700.45 | | | 28.71 | 4686.56 | 28.99 | 4686.51 |
| 6/28/1995 | 53.98 | 4701.53 | 53.93 | 4701.59 | 46.54 | 4701.68 | 46.84 | 4701.14 | | | 28.17 | 4687.10 | 28.42 | 4687.08 |
| 11/28/1995 | 54.10 | 4701.41 | N.M. | ----- | 47.07 | 4701.15 | 47.37 | 4700.61 | | | 28.52 | 4686.75 | 28.75 | 4686.75 |
| 6/25/1996 | 53.91 | 4701.60 | 53.93 | 4701.59 | 46.44 | 4701.78 | 46.72 | 4701.26 | | | 27.76 | 4687.51 | 27.92 | 4687.58 |
| 12/11/1996 | 54.78 | 4700.73 | 54.21 | 4701.31 | 46.97 | 4701.25 | 47.25 | 4700.73 | | | 28.08 | 4687.19 | 28.23 | 4687.27 |
| 6/19/1997 | 53.03 | 4702.48 | 53.05 | 4702.47 | 45.09 | 4703.13 | 45.41 | 4702.57 | | | 25.45 | 4689.82 | 25.33 | 4690.17 |
| 12/15/1997 | 53.79 | 4701.72 | 53.80 | 4701.72 | 46.38 | 4701.84 | 46.69 | 4701.29 | | | 28.39 | 4686.88 | 28.61 | 4686.89 |
| 6/30/1998 | 53.49 | 4702.02 | 53.50 | 4702.02 | 45.65 | 4702.57 | 45.94 | 4702.04 | | | 26.91 | 4688.36 | 26.96 | 4688.54 |
| 12/14/1998 | 53.73 | 4701.78 | 53.74 | 4701.78 | 46.32 | 4701.90 | 46.60 | 4701.38 | | | 28.40 | 4686.87 | 28.61 | 4686.89 |
| 6/22/1999 | 53.64 | 4701.87 | 53.66 | 4701.86 | 46.06 | 4702.16 | 46.36 | 4701.62 | | | 28.23 | 4687.04 | 28.43 | 4687.07 |
| 12/14/1999 | 53.87 | 4701.64 | 53.91 | 4701.61 | 46.59 | 4701.63 | 46.87 | 4701.11 | | | 28.56 | 4686.71 | 28.79 | 4686.71 |
| 6/8/2000 | 53.95 | 4701.56 | 53.96 | 4701.56 | 46.68 | 4701.54 | 46.96 | 4701.02 | | | 28.33 | 4686.94 | 28.54 | 4686.96 |
| 11/28/2000 | 54.23 | 4701.28 | 54.26 | 4701.26 | 47.09 | 4701.13 | 47.40 | 4700.58 | | | 28.65 | 4686.62 | 28.91 | 4686.59 |
| 6/12/2001 | 54.30 | 4701.21 | 54.37 | 4701.15 | 47.20 | 4701.02 | 47.51 | 4700.47 | | | 28.51 | 4686.76 | 28.71 | 4686.79 |
| 12/18/2001 | 54.78 | 4700.73 | 54.69 | 4700.83 | 47.66 | 4700.56 | 47.96 | 4700.02 | | | 28.82 | 4686.45 | 28.82 | 4686.68 |
| 6/13/2002 | 54.21 | 4701.30 | 54.25 | 4701.27 | 46.87 | 4701.35 | 47.13 | 4700.85 | | | 26.93 | 4688.34 | 26.98 | 4688.52 |
| 12/12/2002 | 54.81 | 4700.70 | 54.91 | 4700.61 | 48.08 | 4700.14 | 48.34 | 4699.64 | | | 29.03 | 4686.24 | 29.24 | 4686.26 |
| 6/10/2003 | 54.56 | 4700.95 | N.M. | ----- | 47.63 | 4700.59 | 47.92 | 4700.06 | | | 28.50 | 4686.77 | 28.70 | 4686.80 |
| 12/3/2003 | 55.03 | 4700.48 | 55.06 | 4700.46 | 48.49 | 4699.73 | 48.73 | 4699.25 | | | 29.04 | 4686.23 | 29.27 | 4686.23 |
| 6/8/2004 | 55.01 | 4700.50 | 55.03 | 4700.49 | 48.34 | 4699.88 | 48.59 | 4699.39 | | | 28.59 | 4686.68 | 28.78 | 4686.72 |
| 12/6/2004 | 55.22 | 4700.29 | 55.23 | 4700.29 | 48.67 | 4699.55 | 48.89 | 4699.09 | | | 28.86 | 4686.41 | 29.11 | 4686.39 |
| 6/16/2005 | 54.92 | 4700.59 | 54.95 | 4700.57 | 48.34 | 4699.88 | 48.55 | 4699.43 | | | 28.19 | 4687.08 | 28.37 | 4687.13 |
| 12/14/2005 | 55.35 | 4700.16 | 55.39 | 4700.13 | 48.91 | 4699.31 | 49.13 | 4698.85 | | | 28.94 | 4686.33 | 29.20 | 4686.30 |
| 3/16/2006 | 55.14 | 4700.37 | N.M. | ----- | N.M. | ----- | N.M. | ----- | | | N.M. | ----- | N.M. | ----- |
| 6/12/2006 | 55.00 | 4700.51 | 55.00 | 4700.52 | 48.28 | 4699.94 | 48.49 | 4699.49 | | | 28.10 | 4687.17 | 28.31 | 4687.19 |
| 12/2006 to 6/2010 | No entry of DTW data | | | | | | | | | | | | | |
| 12/1/2010 | 54.24 | 4701.27 | 54.31 | 4701.21 | 47.44 | 4700.78 | 47.72 | 4700.75 | | | 28.36 | 4686.91 | 28.58 | 4686.92 |
| 6/13/2011 | 53.15 | 4702.36 | 53.25 | 4702.27 | 45.51 | 4702.71 | 45.80 | 4702.67 | | | 26.83 | 4688.44 | 26.89 | 4688.61 |
| 12/5/2011 | 56.41 | 4701.46 | 56.49 | 4701.46 | 47.02 | 4701.20 | 47.31 | 4701.16 | | | 28.32 | 4686.95 | 28.56 | 4686.94 |
| 6/5/2012 | 56.36 | 4701.51 | 56.45 | 4701.50 | 46.95 | 4701.27 | 47.28 | 4701.19 | 42.62 | 4705.01 | 28.18 | 4687.09 | 28.38 | 4687.12 |
| 12/4/2012 | 56.69 | 4701.18 | 56.80 | 4701.15 | 47.50 | 4700.72 | 47.77 | 4700.70 | 43.09 | 4704.54 | 28.39 | 4686.88 | 28.62 | 4686.88 |
| 6/12/2013 | 56.81 | 4701.06 | 56.81 | 4701.14 | 47.74 | 4700.48 | 48.02 | 4700.45 | 43.31 | 4704.32 | 28.28 | 4686.99 | 28.53 | 4686.97 |
| 12/18/2013 | 56.92 | 4700.95 | 57.02 | 4700.93 | 47.85 | 4700.37 | 48.10 | 4700.37 | 43.32 | 4704.31 | 28.48 | 4686.79 | 28.70 | 4686.80 |
| 3/26/2014 | N.M. | ----- | N.M. | ----- | 46.65 | 4707.93 | N.M. | ----- | 42.60 | 4711.38 | 27.48 | 4694.63 | N.M. | ----- |

MP elev change : Measuring point elevation change

DTW : Depth to water below measuring point (feet)

ELEV : Groundwater elevation above mean sea level (feet). Well locations shown on Figure 2.

2 : Approximately 2.4 feet of PVC was added on 7/6/2011

N.M. Not measured

----- Not calculated

TABLE 2 (Continued)
Groundwater Levels
Bozeman Landfill, Bozeman Montana

| Well No. | MEASURING POINT ELEVATION (in feet above mean sea level) | | | | | | | | | | | | | | |
|-------------------|--|---------|----------|---------|----------|---------|--------------------|---------|----------|---------|----------|---------|----------|---------|----------|
| | 4675.01 | | 4778.15 | | 4763.02 | | 4748.73 | | 4797.94 | | 4845.00 | | 4717.33 | | |
| | 6/4/2014 | 4681.43 | 6/4/2014 | 4785.49 | 6/4/2014 | 4772.15 | 6/30/1998 | 4742.54 | 6/4/2014 | 4749.50 | 6/4/2014 | 4804.85 | 6/4/2014 | 4856.71 | 6/4/2014 |
| DATE | MW-10 | | MW-11 | | MW-12 | | MW-13 ³ | | MW-14 | | MW-15 | | MW-16 | | |
| | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | |
| 6/28/1995 | 6.58 | 4668.43 | N.M. | ----- | N.M. | ----- | N.M. | ----- | | | | | | | |
| 9/12/1995 | N.M. | ----- | 51.40 | 4726.75 | 55.03 | 4707.99 | 49.45 | 4699.28 | | | | | | | |
| 11/28/1995 | 2.07 | 4672.94 | 51.55 | 4726.60 | 55.09 | 4707.93 | 49.56 | 4699.17 | | | | | | | |
| 6/25/1996 | 1.63 | 4673.38 | 51.72 | 4726.43 | 54.77 | 4708.25 | 49.16 | 4699.57 | | | | | | | |
| 12/11/1996 | 1.85 | 4673.16 | 51.83 | 4726.32 | 55.13 | 4707.89 | 49.53 | 4699.20 | | | | | | | |
| 6/19/1997 | 0.90 | 4674.11 | 51.35 | 4726.80 | 53.82 | 4709.20 | 47.27 | 4701.46 | | | | | | | |
| 12/15/1997 | 1.78 | 4673.23 | 51.42 | 4726.73 | 54.26 | 4708.76 | 59.16 | 4689.57 | | | | | | | |
| 6/30/1998 | 1.38 | 4673.63 | 51.44 | 4726.71 | 53.83 | 4709.19 | 48.72 | 4700.01 | | | | | | | |
| 12/14/1998 | 2.20 | 4672.81 | 51.52 | 4726.63 | 54.17 | 4708.85 | 49.14 | 4699.59 | | | | | | | |
| 6/22/1999 | 1.61 | 4673.40 | 51.51 | 4726.64 | 54.64 | 4708.38 | 49.01 | 4699.72 | | | | | | | |
| 12/14/1999 | 2.32 | 4672.69 | 51.69 | 4726.46 | 54.96 | 4708.06 | 43.13 | 4699.41 | | | | | | | |
| 6/8/2000 | 1.95 | 4673.06 | 51.76 | 4726.39 | 55.11 | 4707.91 | 43.21 | 4699.33 | | | | | | | |
| 11/28/2000 | 2.44 | 4672.57 | 51.99 | 4726.16 | 55.44 | 4707.58 | 43.49 | 4699.05 | | | | | | | |
| 6/12/2001 | 1.38 | 4673.63 | 52.03 | 4726.12 | 55.75 | 4707.27 | 43.60 | 4698.94 | 32.96 | 4764.98 | | | | | |
| 12/19/2001 | 2.55 | 4672.46 | 52.27 | 4725.88 | 56.06 | 4706.96 | 43.87 | 4698.67 | 33.71 | 4764.23 | 47.77 | ----- | | | |
| 6/13/2002 | 1.25 | 4673.76 | 52.12 | 4726.03 | 55.90 | 4707.12 | 43.45 | 4699.09 | ----- | ----- | ----- | ----- | | | |
| 12/12/2002 | 2.70 | 4672.31 | 52.39 | 4725.76 | 56.49 | 4706.53 | 44.10 | 4698.44 | 34.28 | 4763.66 | 48.63 | ----- | | | |
| 6/10/2003 | 1.18 | 4673.83 | 52.22 | 4725.93 | 56.39 | 4706.63 | 43.87 | 4698.67 | 33.53 | 4764.41 | 48.10 | ----- | | | |
| 12/3/2003 | 2.59 | 4672.42 | 52.47 | 4725.68 | 56.91 | 4706.11 | 44.31 | 4698.23 | 34.65 | 4763.29 | 49.44 | ----- | | | |
| 6/8/2004 | 1.81 | 4673.20 | 52.44 | 4725.71 | 57.04 | 4705.98 | 44.26 | 4698.28 | 34.46 | 4763.48 | 49.89 | ----- | | | |
| 12/6/2004 | 2.45 | 4672.56 | 53.01 | 4725.14 | 57.17 | 4705.85 | 44.44 | 4698.10 | 35.34 | 4762.60 | 50.76 | ----- | | | |
| 6/16/2005 | 1.45 | 4673.56 | 52.47 | 4725.68 | 57.15 | 4705.87 | 44.26 | 4698.28 | 34.66 | 4763.28 | 50.35 | ----- | | | |
| 12/14/2005 | 2.57 | 4672.44 | 52.77 | 4725.38 | 57.39 | 4705.63 | 44.60 | 4697.94 | 35.82 | 4762.12 | 51.74 | ----- | | | |
| 3/16/2006 | N.M. | ----- | N.M. | ----- | 57.25 | 4705.77 | 44.32 | 4698.22 | N.M. | ----- | N.M. | ----- | | | |
| 6/12/2006 | 1.90 | 4673.11 | 53.9 | 4724.25 | 57.20 | 4705.82 | 44.20 | 4698.34 | 34.41 | 4763.53 | 50.30 | ----- | | | |
| 12/2006 to 6/2010 | No entry of DTW data | | | | | | | | | | | | | | |
| 12/1/2010 | 1.78 | 4673.23 | 51.79 | 4726.36 | 55.95 | 4707.07 | 43.54 | 4699.00 | 31.84 | 4766.10 | 44.35 | 4800.65 | | | |
| 6/13/2011 | 0.80 | 4674.21 | 51.18 | 4726.97 | 54.59 | 4708.43 | 42.40 | 4700.14 | 29.01 | 4768.93 | 41.52 | 4803.48 | | | |
| 12/5/2011 | 2.09 | 4672.92 | 51.57 | 4726.58 | 55.40 | 4707.62 | 43.28 | 4699.26 | 31.10 | 4766.84 | 42.60 | 4802.40 | | | |
| 6/5/2012 | 1.66 | 4673.35 | 51.54 | 4726.61 | 55.46 | 4707.56 | 43.26 | 4699.28 | 31.46 | 4766.48 | 43.95 | 4801.05 | 26.02 | 4691.31 | |
| 12/5/2012 | 2.03 | 4672.98 | 51.84 | 4726.31 | 55.85 | 4707.17 | 43.59 | 4698.95 | 32.83 | 4765.11 | 45.98 | 4799.02 | 26.24 | 4691.09 | |
| 6/12/2013 | 1.58 | 4673.43 | 51.85 | 4726.30 | 56.25 | 4706.77 | 43.70 | 4698.84 | 33.24 | 4764.70 | 47.20 | 4797.80 | 26.24 | 4691.09 | |
| 12/18/2013 | N.M. | ----- | 52.00 | 4726.15 | 56.13 | 4706.89 | 43.81 | 4698.73 | 33.90 | 4764.04 | 48.80 | 4796.20 | 26.03 | 4691.30 | |
| 3/26/2014 | 1.40 | 4680.03 | 51.76 | 4733.73 | 55.72 | 4716.43 | 43.46 | 4706.04 | 33.23 | 4771.62 | 49.05 | 4807.66 | 25.64 | 4695.32 | |

MP elev change : Measuring point elevation change

DTW : Depth to water below measuring point (feet)

ELEV : Groundwater elevation above mean sea level (feet). Well locations shown on Figure 2.

3 : 6.19 feet of PVC was removed on 06/30/1998.

N.M. Not measured

----- Not calculated

TABLE 2 (Continued)
Groundwater Levels
Bozeman Landfill, Bozeman Montana

| Well No. | MEASURING POINT ELEVATION (in feet above mean sea level) | | | | | | | | | | | | | |
|------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 4810.03 | | 4772.36 | | 4724.94 | | 4778.01 | | 4704.56 | | 4693.62 | | 4689.79 | |
| | MW-17 | | MW-18 | | MW-19 | | MW-20 | | MW-21 | | MW-22 | | MW-23 | |
| DATE | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV | DTW | ELEV |
| 6/28/1995 | | | | | | | | | | | | | | |
| 9/12/1995 | | | | | | | | | | | | | | |
| 11/28/1995 | | | | | | | | | | | | | | |
| 6/25/1996 | | | | | | | | | | | | | | |
| 12/11/1996 | | | | | | | | | | | | | | |
| 6/19/1997 | | | | | | | | | | | | | | |
| 12/15/1997 | | | | | | | | | | | | | | |
| 6/30/1998 | | | | | | | | | | | | | | |
| 12/14/1998 | | | | | | | | | | | | | | |
| 6/22/1999 | | | | | | | | | | | | | | |
| 12/14/1999 | | | | | | | | | | | | | | |
| 6/8/2000 | | | | | | | | | | | | | | |
| 11/28/2000 | | | | | | | | | | | | | | |
| 6/12/2001 | | | | | | | | | | | | | | |
| 12/19/2001 | | | | | | | | | | | | | | |
| 6/13/2002 | | | | | | | | | | | | | | |
| 12/12/2002 | | | | | | | | | | | | | | |
| 6/10/2003 | | | | | | | | | | | | | | |
| 12/3/2003 | | | | | | | | | | | | | | |
| 6/8/2004 | | | | | | | | | | | | | | |
| 12/6/2004 | | | | | | | | | | | | | | |
| 6/16/2005 | | | | | | | | | | | | | | |
| 12/14/2005 | | | | | | | | | | | | | | |
| 3/16/2006 | | | | | | | | | | | | | | |
| 6/12/2006 | | | | | | | | | | | | | | |
| 12/1/2010 | | | | | | | | | | | | | | |
| 6/13/2011 | | | | | | | | | | | | | | |
| 12/5/2011 | | | | | | | | | | | | | | |
| 6/5/2012 | | | | | | | | | | | | | | |
| 12/5/2012 | | | | | | | | | | | | | | |
| 6/12/2013 | | | | | | | | | | | | | | |
| 12/18/2013 | | | | | | | | | | | | | | |
| 3/26/2014 | 75.60 | 4734.43 | 47.23 | 4725.13 | 21.23 | 4703.71 | 53.20 | 4724.81 | 9.39 | 4695.17 | 3.81 | 4689.81 | 5.49 | 4684.30 |

MP elev change : Measuring point elevation change

DTW : Depth to water below measuring point (feet)

ELEV : Groundwater elevation above mean sea level (feet). Well locations shown on Figure 2.

Well MW-18 depth to groundwater = 47.23 measured 5/2/2014

N.M. Not measured

----- Not calculated

TABLE 2 (Continued)
Groundwater Levels
Bozeman Landfill, Bozeman Montana

| Well No. | MEASURING POINT ELEVATION (in feet above mean sea level) | | | | | |
|------------|--|---------|---------|---------|---------|---------|
| | 4804.52 | | 4775.45 | | 4732.82 | |
| | MW-24 | | MW-25 | | MW-26 | |
| DATE | DTW | ELEV | DTW | ELEV | DTW | ELEV |
| 6/28/1995 | | | | | | |
| 9/12/1995 | | | | | | |
| 11/28/1995 | | | | | | |
| 6/25/1996 | | | | | | |
| 12/11/1996 | | | | | | |
| 6/19/1997 | | | | | | |
| 12/15/1997 | | | | | | |
| 6/30/1998 | | | | | | |
| 12/14/1998 | | | | | | |
| 6/22/1999 | | | | | | |
| 12/14/1999 | | | | | | |
| 6/8/2000 | | | | | | |
| 11/28/2000 | | | | | | |
| 6/12/2001 | | | | | | |
| 12/19/2001 | | | | | | |
| 6/13/2002 | | | | | | |
| 12/12/2002 | | | | | | |
| 6/10/2003 | | | | | | |
| 12/3/2003 | | | | | | |
| 6/8/2004 | | | | | | |
| 12/6/2004 | | | | | | |
| 6/16/2005 | | | | | | |
| 12/14/2005 | | | | | | |
| 3/16/2006 | | | | | | |
| 6/12/2006 | | | | | | |
| | | | | | | |
| 12/1/2010 | | | | | | |
| 6/13/2011 | | | | | | |
| 12/5/2011 | | | | | | |
| 6/5/2012 | | | | | | |
| 12/5/2012 | | | | | | |
| 6/12/2013 | | | | | | |
| 12/18/2013 | | | | | | |
| 3/26/2014 | 74.50 | 4730.02 | 50.22 | 4725.23 | 14.41 | 4718.41 |

MP elev change : Measuring point elevation change

DTW : Depth to water below measuring point (feet)

ELEV : Groundwater elevation above mean sea level (feet). Well locations shown on Figure 4.

Well MW-25 depth to groundwater = 50.22 measured 5/2/2014

N.M. Not measured

----- Not calculated

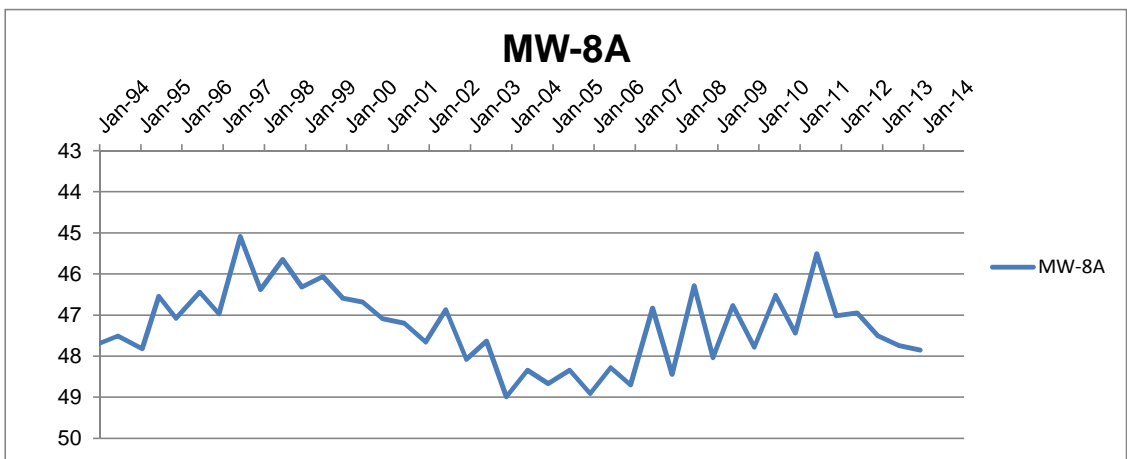
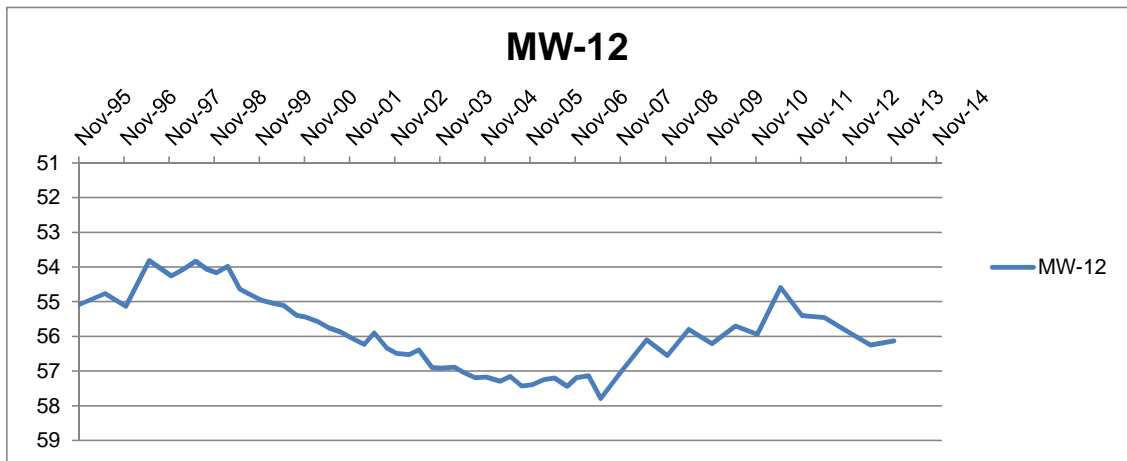
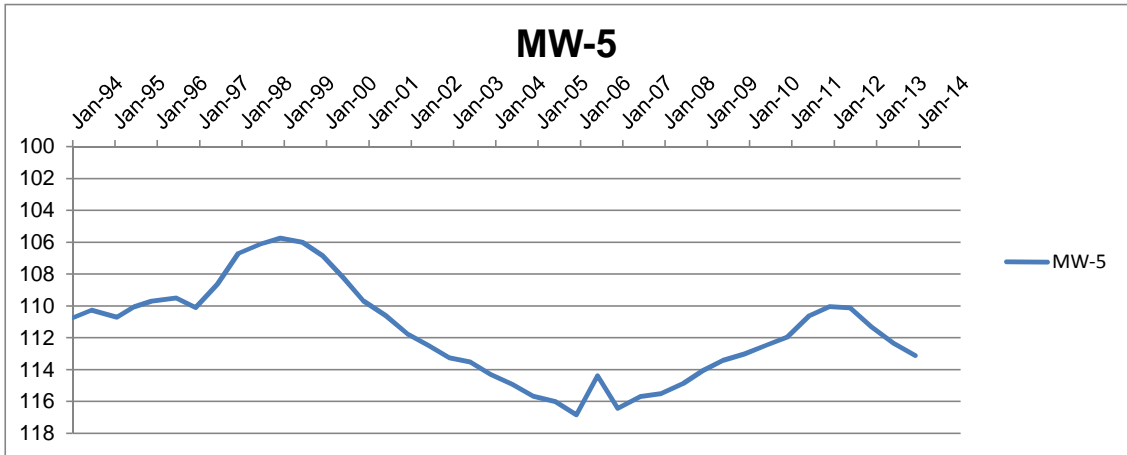
TABLE 4
Summary of VOC Detections
March and May 2014 Groundwater Monitoring
Bozeman Landfill, Bozeman, Montana

| Monitoring Station Sample Date | LF-2 Mar 2014 | LF-3 Mar 2014 | MW-4 Mar 2014 | MW-8A Mar 2014 | MW-10 Mar 2014 | MW-12 Mar 2014 | MW-13 Mar 2014 | MW-15 Mar 2014 ND | Mclhattan Seep Mar 2014 | MW-17 Mar 2014 | MW-17 May 2014 Re-Sample | MW-18 May 2014 | MW-19 Mar 2014 | MW-19 May 2014 Re-Sample | MW-20 Mar 2014 Re-Sample | MW-20 May 2014 DUP Re-Sample | MW-21 Mar 2014 ND | MW-21 May 2014 ND Re-Sample | MW-22 Mar 2014 | MW-22 May 2014 DUP-1 | MW-22 May 2014 Re-Sample | MW-23 Mar 2014 | MW-23 May 2014 Re-Sample | MW-24 Mar 2014 | MW-24 May 2014 Re-Sample | MW-25 Mar 2014 ND | MW-26 Mar 2014 ND | MW-26 May 2014 ND Re-Sample | Trip B Mar 2014 | Trip B May 2014 ND Re-Sample | | |
|-----------------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|-------------------------------|-------------------|--------------------------------|-------------------|-------------------|--------------------------------|--------------------------------|---------------------------------------|-------------------------|--------------------------------------|-------------------|----------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|-------------------------|-------------------------|--------------------------------------|--------------------|---------------------------------------|--|--|
| 1112Tetrachloroethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1111Trichloroethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11221Tetrachloroethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1121Trichloroethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1121Trichlorotrifluoroethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11Dichloroethane | | | 0.45J | | | 1.2 | 1.5 | | | 0.57 | 0.74 | 0.56 | | | | | | | | | | | | | | | | | | | | |
| 11Dichloroethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 123Trichloropropane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 124Trimethylbenzene | | | | | | | | | | | | 0.59 | 0.27J | | | | | | 0.26J | | | | 0.39J | | | | | | | | | |
| 12Dibromo3chloropropane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12DibromoethaneEDB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12Dichlorobenzene | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12Dichloroethane | | | | | | | | | | | | 0.16J | | | | | | | | | | | | | | | | | | | | |
| 12Dichloropropane | | | | | | 0.23J | 0.26J | | | 0.35J | 0.19J | 0.49J | | | | | | | | | | | | | | | | | | | | |
| 14Dichlorobenzene | | | | | | 0.34J | 0.58 | | | | | 0.99 | | | | | | | | | | | | | | | | | | | | |
| 14DioxaneDioxane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2HexaneMEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2Hexane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2Propanol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4Methyl2pentanoneMIBK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetone | | | | | | | | | | | | | | | 13.6J | | | | | | | | | | | | | | | 10.4J | | |
| Acrylonitrile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | | | | | | 1.7 | 0.68 | | | 0.38J | 0.079J | 0.66 | 0.24J | | 0.69J | 0.44J | | | 0.33J | 0.30J | | 0.24J | 0.20J | | | | | | | | | |
| Bromochloromethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bromodichloromethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bromoform | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bromomethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbondisulfide | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbontetrachloride | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloride | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chlorobenzene | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloroethane | | | 0.76J | | | | 1.9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloroform | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloromethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| cis12Dichloroethane | 0.37J | 2.0 | 0.53 | 0.95 | | 3.9 | 1.1 | | | 24.5 | 27.6 | 18.5 | | | 0.32J | 0.15J | | | | | | | | | | | | | | | | |
| cis13Dichloropropene | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyclohexane | | | | | | | | | | | | | 3.2J | | | | | | 3.1J | 3.0J | | 3.0J | | | | | | | | | | |
| Dibromochloromethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dibromomethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | | 1.2 | 1.3 | | | | | | 0.83J | 2.9 | 2.0 | | | | | | | | | | | | | | | | | | | | | |
| Ethylbenzene | | | | | | | | | | | | | | 0.27J | 0.18J | 1 | | | | | | | 0.35J | | | | | | | | | |
| Iodomethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IsopropylbenzeneCumene | | | | | | | | | | 5.0J | 5.1 | | | | | | | | | | | | | | | | | | | 4.8 | | |
| MethyleneChloride | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Methyltertbutylether | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| nHexane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| nPropylbenzene | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Styrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tetrachloroethane | 0.89 | 2.4 | 1.0 | 0.65 | | | | | 1.2 | 15.9 | 16.0 | 0.87 | 0.77 | 0.80 | 10.6 | 9.4 | 9.4 | | | | | | | 0.30J | 0.36J | | | | | | | |
| Tetrahydrofuran | | | | | | | | | | | | 9.8J | | | | | | | | | | | | | | | | | | | | |
| Toluene | | | | | | 0.43J | | | | | | | 1.2 | 0.90 | 0.30J | 0.22J | 0.15J | | | 0.48J | 0.47J | 0.52 | 0.6 | 0.97 | | | | | | | | |
| trans12Dichloroethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| trans13Dichloropropene | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| trans14Dichlorobutene | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trichloroethane | 0.16J | 0.61 | 0.86 | 0.35J | 0.33J | 0.25J | 0.31J | | 0.4 | 5.9 | 5.8 | 0.38J | | | 0.34J | 0.33J | 0.22J | | | | | | | | | | | | | | | |
| Trichlorofluoromethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vinylacetate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vinylchloride | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Xylenetotal | | | | | | 19.7 | 17.1 | | | 1.5 | 2.3 | 3.3 | | | | | | | | | | | | | | | | | | | | |

Notes: VOC - Volatile Organic Compound Concentrations in micrograms per liter (µg/L) NA - Not Analyzed
Bolded Values - Constituent concentration exceeding Montana Human Health Standard, Reference - 2012, DEQ. Circular DEQ-7 Montana Numeric Water Quality Standards. October.
 ND or blank field - Analyte or Analyte(s) Not Detected DUP and DUP-1 - Field Duplicates Collected
 J - Estimated Concentration (less than analytical practical quantitation limit or PQL)
 Well MW-20 May 2014 natural sample benzene result of 0.69 µg/L flagged as estimated due to exceedance in Relative Percent Difference with duplicate sample

APPENDIX A

CHART A-1
 Summary of Changes in Groundwater Levels Through Time
 Bozeman Landfill, Bozeman, Montana



Note : Y axis: Depth to Groundwater in feet below Top of Casing

Chart A-2: MW-12

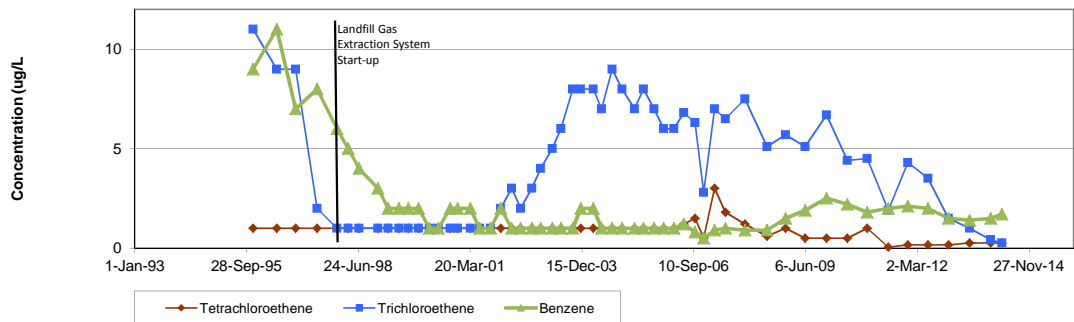


Chart A-2: MW-12

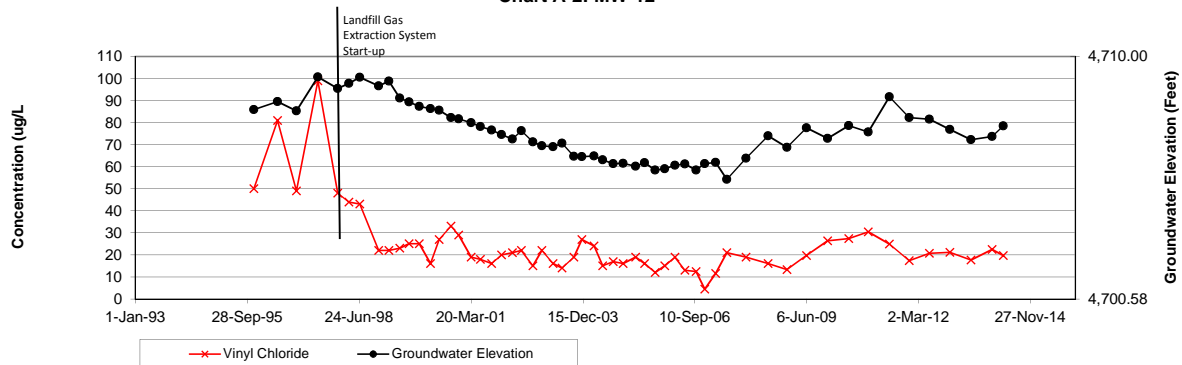


Chart A-3: MW-13

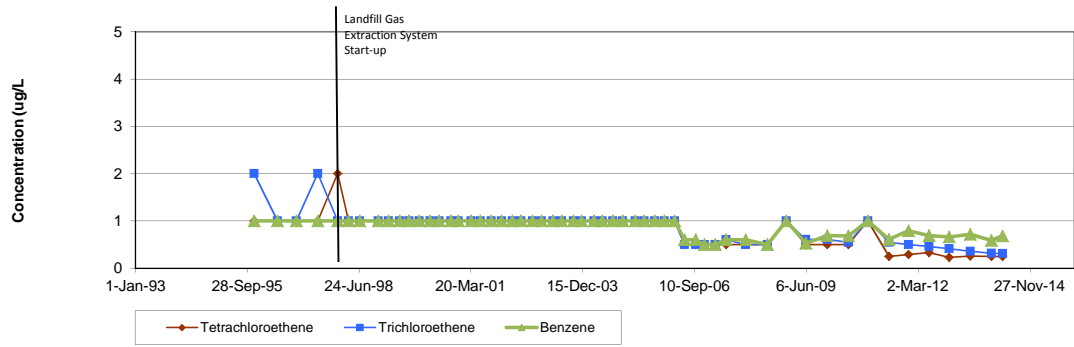


Chart A-3: MW-13

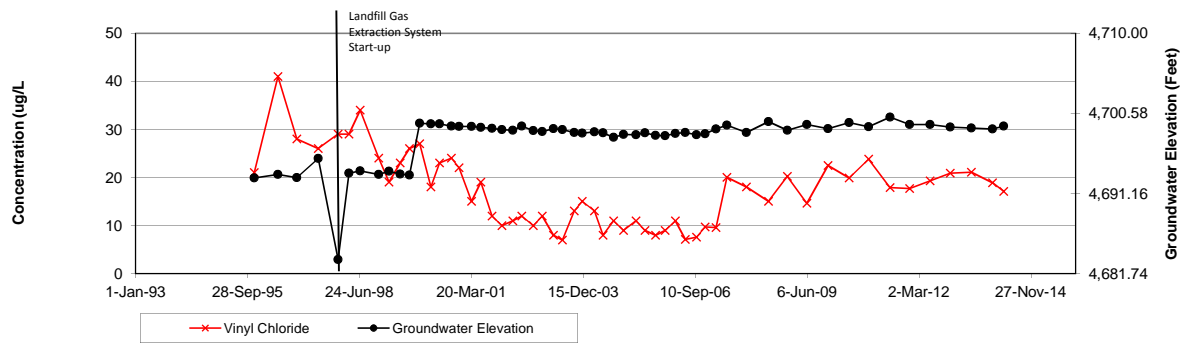


Chart A-4: MW-6

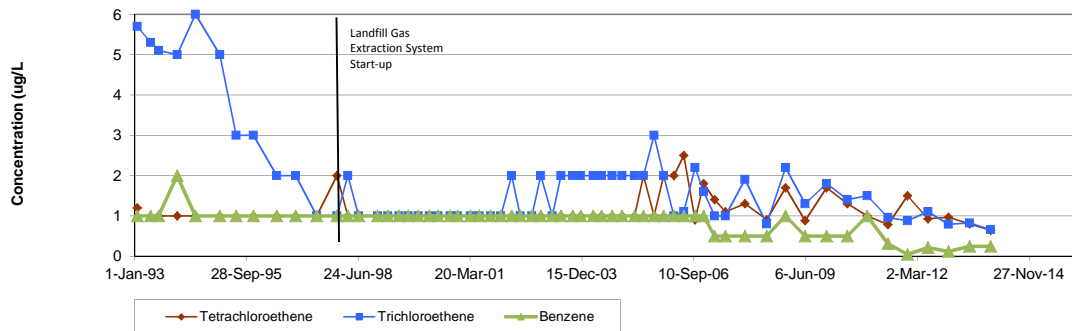


Chart A-4: MW-6

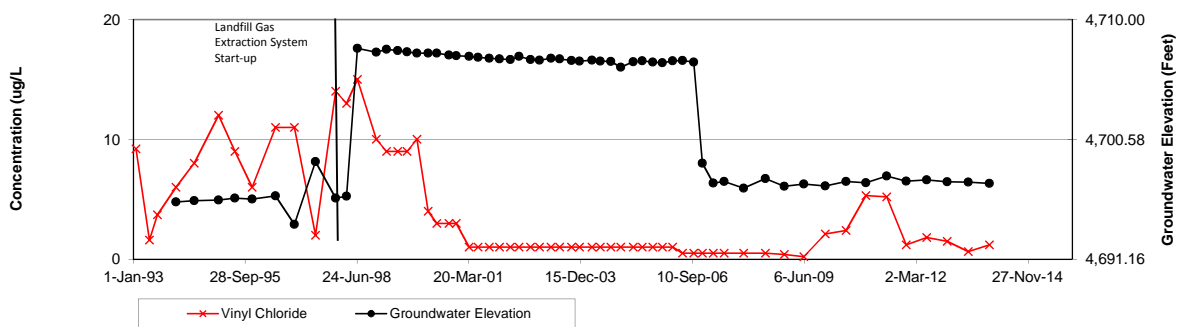


Chart A-5: MW-8A

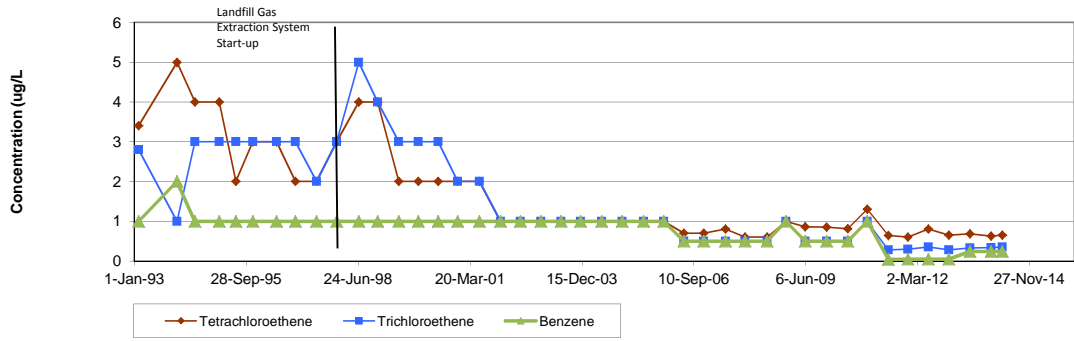


Chart A-5: MW-8A

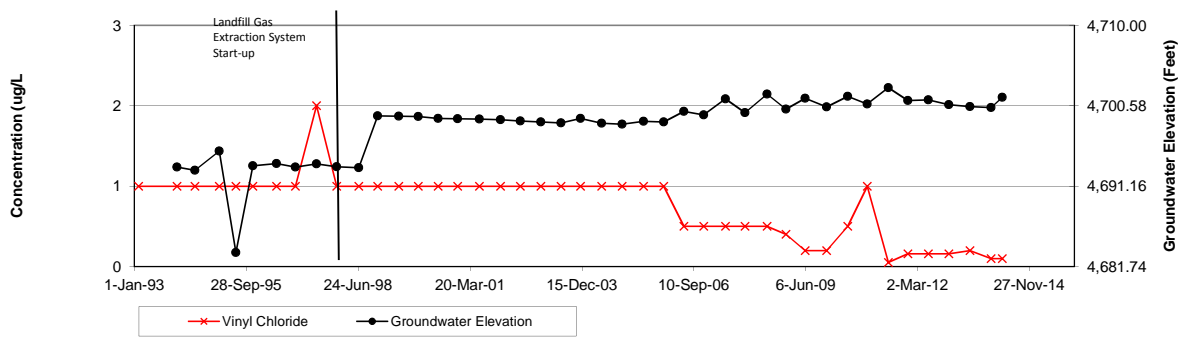


Chart A-6: LF-3

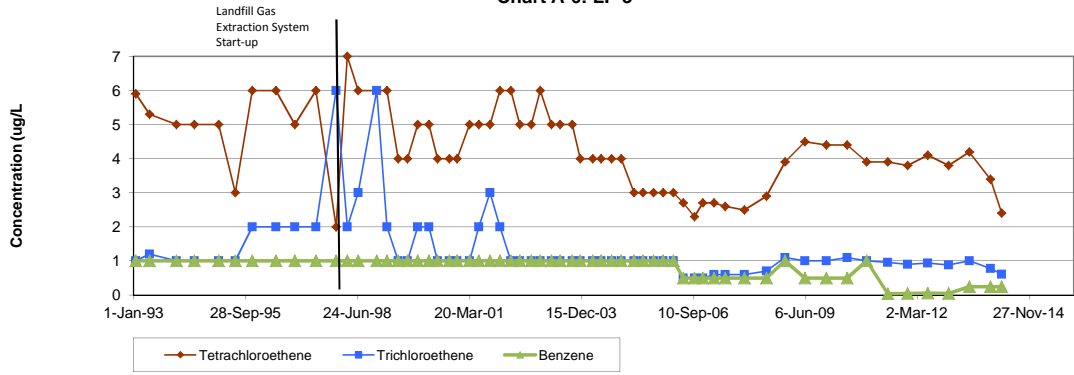
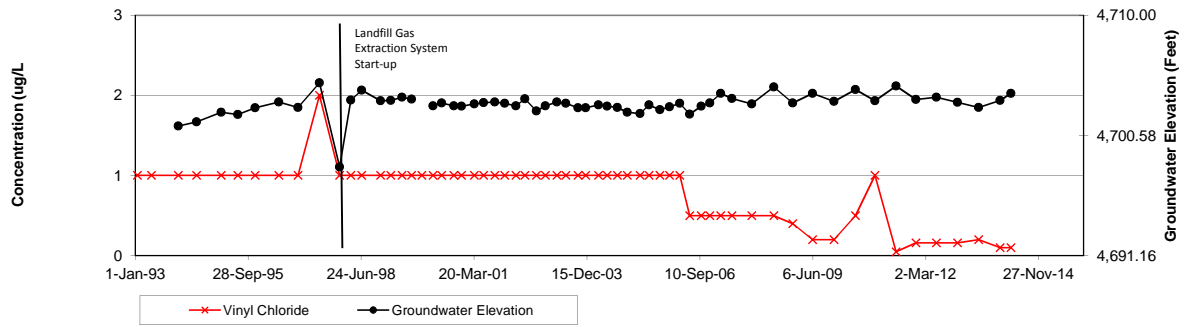


Chart A-6: LF-3



APPENDIX B

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL/BORING NO. MW-17
 SHEET 1 OF 3
 LOCATION: Near NW corner of metal bldg, that is near SE corner of landfill
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 2/24/14 COMPLETED: 2/27/14
 TIME: STARTED: 145 COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|---------------------|---------------|---------------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 0.0 | | <i>Infer Fill to 4' depth</i> Dark brown silt - firm, dense Gravel starting at 2', looks like pit-run moist Gravel ending at 4' | | | Time | NM | None Detected | None Detected |
| 5.0 | | Green-brown clayey silt - firm, NR moist | SSS | 13 12 16 | 1220 0% | ↓ | ↓ | ↓ |
| 10.0 | | Dark green-brown sandy silt, - moist, firm (ML) | SSS | 33 34 | 1242 40% | | | |
| 15.0 | | Same as above | SSS | 34 4 | 50% | | | |
| 20.0 | | <i>Slightly wet at/above clay interval</i> Change to green-brown silty clay - dense, very moist to ~18.0' then change to sandy silt - tan-brown, dense, moist | SSS | 9 15 16 | 1330 50% | | | |
| 25.0 | | Dark-brown, dense silt - moist (ML) <i>Slightly wet</i> Clayey silt w/ incr. moisture | SSS | 6 6 7 | 50% | | | |
| 30.0 | | Green-brown silt - dense, moist, whitish streaks Gravel at tip of spoon | SSS | 13 14 16 | 1345 50% | | | |

CAL = CALIFORNIA
 SS = SPLIT SPOON
 ST = SHELBY TUBE
 DB = DISTURBED BULK /BAG SAMPLE
 CON = CONTINUOUS SAMPLE
 CORE = CORE SAMPLE
 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 " " = NOT ANALYZED
 NS = NO SHEEN
 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
 " " = NOT ANALYZED
 SSS = Small Split Spoon
 NR = No Recovery
 DEPTH TO BOTTOM OF BORING
87.0'



T:\3-10-98\DRILL-PR.DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL: ✓
 ROCK: _____
 DRILLED BY: _____
 LOGGED BY: MFP
 REMARKS: 2/25/14 @ 7:30 Check for water in hole and no water measured.

MONITORING WELL/BORING NO. MW-17
 SHEET 2 OF 3
 LOCATION: See Sheet 1
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____ 49 150/5
 DATE: STARTED: _____ COMPLETED: _____
 TIME: STARTED: _____ COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | | |
|-------------|--------|--|---------------|----------------------------|--------------------------|---------------------|------|-------------------------|--|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING | |
| 30.0 | | <i>slightly wet</i> Clay interval - moist, dense (CL) | | | | | | None Detected | |
| 35.0 | | Sandy Silt/very fine grained Sand - moist, dense, trace carbon specks' (ML) | SSS | 7" 14 | 60% | | | | |
| 40.0 | | 'Rust' layers or tops of depositional intervals Sandy Silt to Silty, Fr. gr. Sand - dense, very moist w/ some sl. wetness on spoon Dark gray-green, small scattered gravel up to 1/8", 1" gravel at end of spoon | SSS | 9 9 14 | 1445 70% | | | | |
| 45.0 | | Cont'd dense sandy Silt to Silty Sand - green-brown, moist, 2 gravel intervals both w/ silty matrix in spoon (MH) suspect wet interval - wetting 48.5-50' spoon | SSS | 10 10 14 | 1520 70% | | | | |
| 50.0 | | Sandy Silt then gravel w/ silt, matrix (at 49') - dense, moist, but sl. wet from above, slow drilling due to dense material | SSS | 39 40 41 | 16 10 60% | | | | |
| 55.0 | | Cont'd Gravel w/ sandy silt matrix & slow drilling Scattered Gravel and Silt Sandy Silt - brown, dense, moist (ML) | SSS | 16 23 42 | 1750 100% | | | Quit for the day (2/24) | |
| 60.0 | | During Drilling - obs. Silt and gravel, moist Gravel with Silt & Sand matrix - dense, moist, light brown & gray brown (GM) | SSS | 36 40 70 | 740 Start 1000 60% | | | Slow advance | |

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 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 NS = NO SHEEN
 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
 -- = NOT ANALYZED

DEPTH TO BOTTOM OF BORING
87.0'



7-10-98/DRILL-PH.DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL: ✓
 ROCK: _____
 DRILLED BY: _____
 LOGGED BY: MFP
 REMARKS: _____

MONITORING WELL/BORING NO. MW-17
 SHEET 3 OF 3
 LOCATION: See Sheet 1
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: _____ COMPLETED: _____
 TIME: STARTED: _____ COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|---------------------|------|----------|--|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING | |
| 60.0 | | Gravel with Silt & Fin. Sand Matrix Sandy Silt to Clayey Silt interbeds | | | | | | | None Detected |
| 65.0 | | Gravel with Silt & Fin. Sand Matrix - dense, very moist, brown-gray (GM) | SSS | 49 150/5 | 1230 60% | | | | |
| 70.0 | | As above w/ Sandy Silt or Clayey Silt Interbeds, very moist to wet in places (in the spoon) Angular Gravel, brown & gray, dense (GM & ML) | SSS | 35 41 76 | 1430 75% | | | | |
| 75.0 | | Gravel as above - dense, moist brown & gray Angular to Subrounded clasts of both an igneous volcanic rock & limestone | SSS | 78 100/2 | 1100 30% | | | | 2/26/14 @ 1500 WL measured in auger is 72.5' |
| 80.0 | | Gravel w/ Sandy/Clayey Silt - dense, very moist to wet, bigger gravel, brown (GM) | SSS | 250/8 | 1420 35% | | | | |
| 85.0 | | Gravel w/ Sandy Silt - dense, brown, very moist to wet | SSS | 200/7 | 1550 25% | | | | 75% Suckup Sand' |
| 87.0 | TD | Augered to 87' to allow for potential cave-in at start of well completion | | | | | | | 2/27/14 @ 715 GWK = 72.5' Measured thru augers |
| 90.0 | | | | | | | | | |

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 CORE = CORE SAMPLE
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 ** = NOT ANALYZED
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 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
 -- = _____
 -- = _____
 -- = _____
 -- = _____

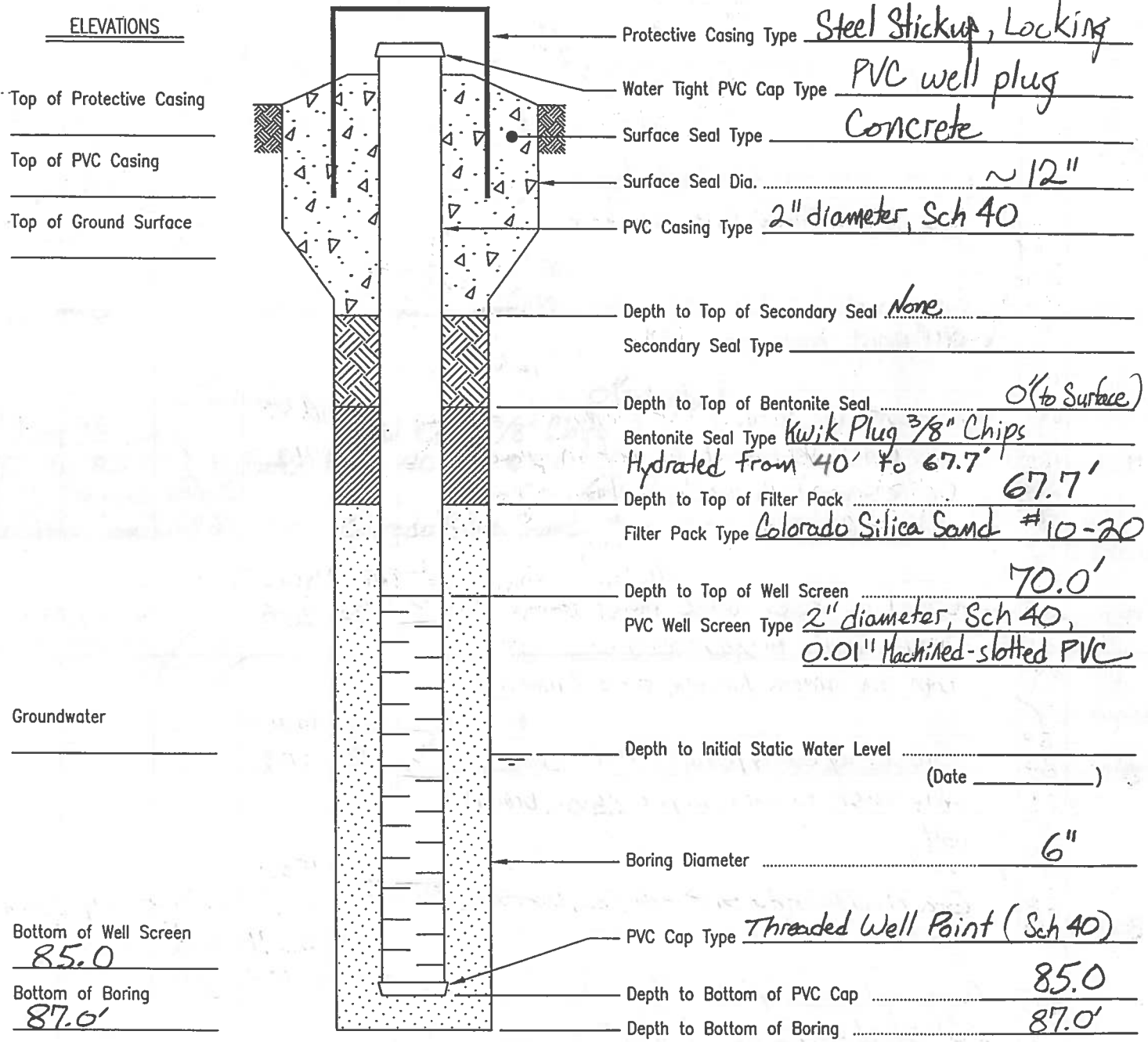
DEPTH TO BOTTOM OF BORING
87.0'



1/3-10-98/2011-MK.DWG

PROJECT: NUMBER: 114-710303 A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK:
 DRILLED BY: O'keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS:

MONITORING WELL NO. MW-117
 SHEET 1 OF 1
 LOCATION: near NW corner of metal bldg. that is near SE corner of Bozeman Landfill
 DATE: HOLE STARTED: 2/24/14
 COMPLETED: 2/27/14



ELEVATIONS
 Top of Protective Casing
 Top of PVC Casing
 Top of Ground Surface

Groundwater
 Bottom of Well Screen 85.0
 Bottom of Boring 87.0'

Protective Casing Type Steel Stickup, Locking
 Water Tight PVC Cap Type PVC well plug
 Surface Seal Type Concrete
 Surface Seal Dia. ~12"
 PVC Casing Type 2" diameter, Sch 40
 Depth to Top of Secondary Seal None
 Secondary Seal Type
 Depth to Top of Bentonite Seal 0' (to Surface)
 Bentonite Seal Type Kwik Plug 3/8" Chips Hydrated from 40' to 67.7'
 Depth to Top of Filter Pack 67.7'
 Filter Pack Type Colorado Silica Sand #10-20
 Depth to Top of Well Screen 70.0'
 PVC Well Screen Type 2" diameter, Sch 40, 0.01" Machined-slotted PVC
 Depth to Initial Static Water Level
 (Date)
 Boring Diameter 6"
 PVC Cap Type Threaded Well Point (Sch 40)
 Depth to Bottom of PVC Cap 85.0
 Depth to Bottom of Boring 87.0'

NOT TO SCALE

NOTE: ALL DEPTHS ARE TO BE REFERENCED FROM GROUND SURFACE.



PROJECT: NUMBER: 114-710303 A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL/BORING NO. MW-18, b
 SHEET 1 OF 1 Abandoned
 LOCATION: 6' W of BLG-4 and 20' N of fence
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 4/22/14 COMPLETED: 4/22/14
 TIME: STARTED: 7:45 COMPLETED: 10:10

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|---|---------------|----------------------------|-------------------------|---------------------|------|----------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 0.0 | | L 7 - 7 Garbage | | | | | | |
| 0.0 - 2.5 | | Dark brown, clayey silt to 2.5', organics | | | Recovery | | | |
| 2.5 - 3.5 | | Brown clayey silt | | | | | | |
| 3.5 | ▽ | Water (Landfill leachate?) at 3.5' | | | | | | |
| 5.0 | | Dense clayey silt dark brown moist in water. Garbage at spoon tip | SSS | 35 | 40% | | | |
| 10.0 | | Continued garbage & clayey silt through 11' | SSS | 70 | Garbage 30% | No Sample | | |
| 15.0 | | Continued garbage - wood mostly, some plastic | SSS | 20 14 14 | Garbage 15% | No Sample | | |
| 20.0 | TD | Garbage to ~20.5' then gray, wet, silt underlying. Continued wet, especially at this interval | SSS | 77 75 | 20% | | | |
| 25.0 | | Decide to pullout, relocate MW-18 and fill borehole w/ bentonite chips | | | | | | |
| 30.0 | | | | | | | | |

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 CON = CONTINUOUS SAMPLE
 CORE = CORE SAMPLE
 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 NS = NO SHEEN
 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
 - = NOT ANALYZED

DEPTH TO BOTTOM OF BORING
21.0'



1/3-10-98/DRILL-HR.DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 H&A
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL/BORING NO. MW-18
 SHEET 1 OF 2
 LOCATION: 23' W of BLG-4 & 20' N
of fence
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 4/22/14 COMPLETED: 4/22/14
 TIME: STARTED: 1200 COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|---------------------|---------------|----------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 0.0 | | | | Blows | Recovery | 1200 | None Detected | |
| 5.0 | | Silt w/ minor clay - moist, lt. brown | SSS | 3556 | 15% | | | |
| | | Minor refuse obs. at 6' w/ LFG odor | | | | | | |
| 10.0 | | Sandy Silt - lt. brown, moist | SSS | 3343 | 20% | | | |
| 15.0 | | As above | SSS | 4444 | 40% | | | |
| | | Clayey Silt, change to incr. clay content | | | | 1230 | | |
| 20.0 | | Clayey Silt - moist, dense, firm, brown | SSS | 46811 | 70% | | | |
| 25.0 | | Clayey Silt - moist to very moist, firm, dense | SSS | 46813 | 70% | 1246 | | |
| | | > Very moist zone w/ trace fn sand or qtz xls | | | | | | |
| 30.0 | | Sandy Silt/Silty Sand - v. fn. gr. sand, dense, moist, lt. brown | SSS | 4444 | 65% | 1254 | | |

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 CORE = CORE SAMPLE
 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 ** = NOT ANALYZED
 NS = NO SHEEN
 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
 -- = _____
 -- = _____
 -- = _____
 -- = _____

DEPTH TO BOTTOM OF BORING
61.0'



1/3-10-99/2811-MK.DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: _____
 LOGGED BY: _____
 REMARKS: _____

MONITORING WELL/BORING NO. MW-18
 SHEET 2 OF 2
 LOCATION: _____
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 4/22/14 COMPLETED: _____
 TIME: STARTED: _____ COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|---------------------|---------------|----------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 30.0 | | | | | Recovery | Time | None | |
| 35.0 | | Clayey Silt w/ v. fn. gr. sand - v. moist, lt. brown, dense | SSS | 44 34 | 100% | 1304 | None Detected | |
| 40.0 | | v. moist sandy silt w/ clay, firm, dense, lt. brown w/ gravel at base (last 6") | SSS | 45 37 66 | 80% | 1320 | | |
| 45.0 | | Tan-gray Gravel in silty, fn. gr. sand matrix, sl. moist | | | | | | |
| 45.0 | | As above | SSS | 38 78 100/5 | 75% | 1340 | | |
| 49.2' | | to 49.2' | | | | | | |
| 4/23/14 | | Sandy Silt w/ scattered gravel - Driller obs. of change | | | | | | |
| 50.0 | | Sandy Silt - wet, light brown, dense wet on spoon at 49.5' | SSSS | 14 12 17 22 | 100% | 1355 | | |
| 55.0 | | Continued wet Sandy Silt, lt. brown, dense | | | | | | |
| 55.0 | | At 54.7' possible gradation change into gravel. Gravelly material to 57.5' then change to silty material | SSC | 25 200/3 | 60% | 1430 | | |
| 60.0 | | In Spoon - Clayey Silt grading downward to silty clay w/ scattered gravel - dense, wet, lt. brown | SSS | 10 12 17 17 | 90% | 1500 | | |
| 61.0' | TD | | | | | | | |

CAL = CALIFORNIA
 SS = SPLIT SPOON
 ST = SHELBY TUBE
 DB = DISTURBED BULK /BAG SAMPLE
 CON = CONTINUOUS SAMPLE
 CORE = CORE SAMPLE
 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 ** = NOT ANALYZED
 NS = NO SHEEN
 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
 -- = _____
 -- = _____
 -- = _____
 -- = _____

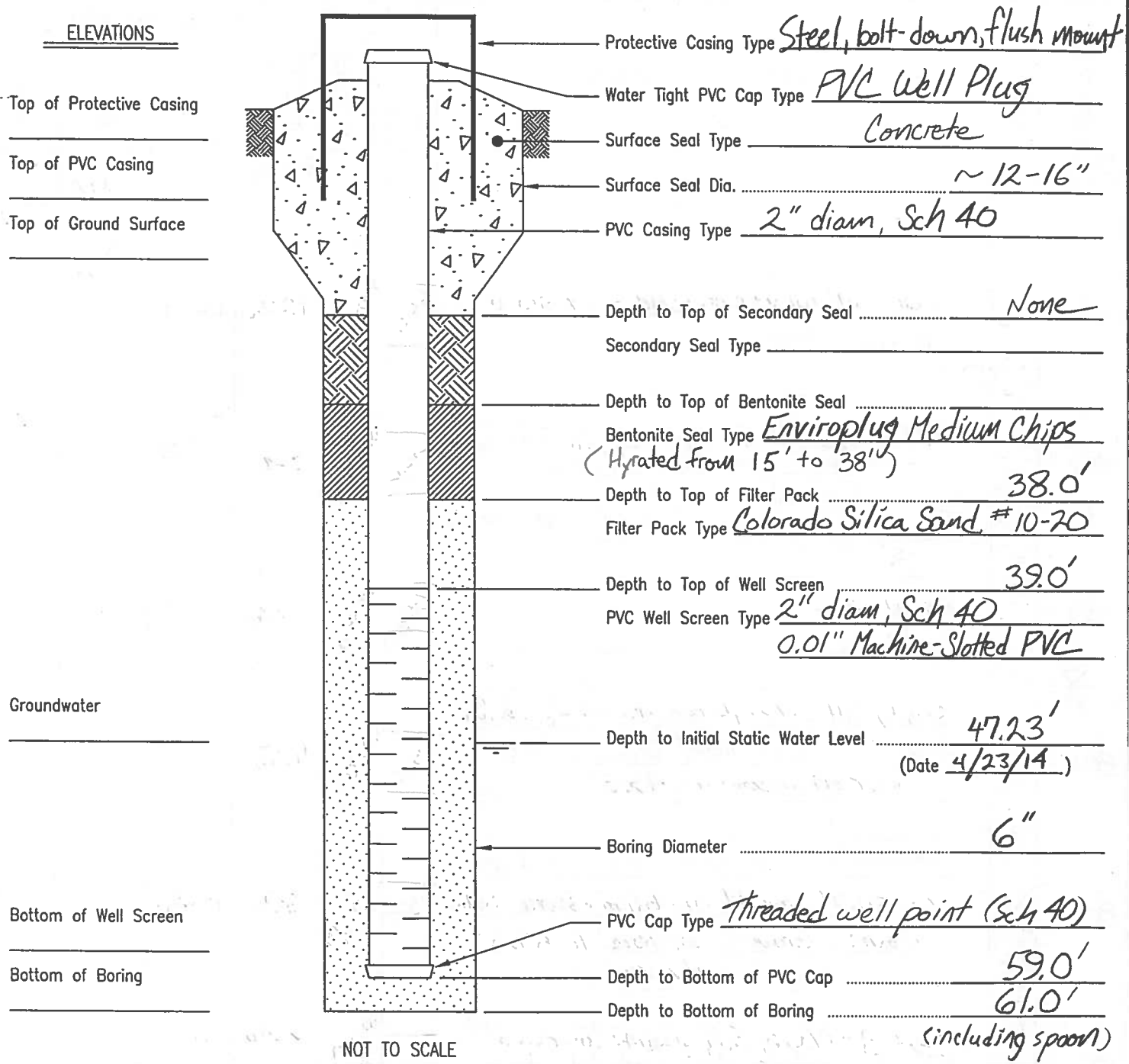
DEPTH TO BOTTOM OF BORING
61.0'



1/3-10-98/DRILL-FR. DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: M.F. Pearson
 REMARKS: _____

MONITORING WELL NO. MW-18
 SHEET 1 OF 1
 LOCATION: 23' W of BLG-4 & 20' N of Fence
 DATE: HOLE STARTED: 4/22/14
 COMPLETED: 4/22/14



NOTE: ALL DEPTHS ARE TO BE REFERENCED FROM GROUND SURFACE.



PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe/Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL/BORING NO. MW-19
 SHEET 1 OF 1
 LOCATION: ~150' S of well LF-3
on St. Andrews Dr.
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 3/3/14 COMPLETED: 3/3/14
 TIME: STARTED: 3:20 COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|---------------------|-------------------------|----------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 0.0 | | | | | | | None | None |
| 5.0 | | Silt - dense, moist, dk brown, tr. organic matter along partings, clayey | SSS | 65/6 | 1340 40% | 14 ppm | None | None |
| 10.0 | | Cont'd drilling through Silt - minor clay component, moist through 10.5' trace scattered gravel, chalk-textured precipitate obs. through spoon sample, dense | SSS | 35/6 | 1355 60% | 6.7 ppm | Slow incr. From 1:4 ppm | |
| 15.0 | | Silt - as above to 14.7' then change to Gravel w/ fn. gr. Sand - sl. moist, tan-gray | SSS | 8/23 74 | 1410 60% | 8.4 ppm | | |
| 20.0 | | Gravel w/ Silt & Gravel w/ fn. gr. Sand - moist, dense, brown to tan-gray | SSS | 24/27 40 | 1430 60% | 3.7 ppm | | |
| 22.0 | | Driller reports formation softening about 22' (a possible indication of intercepting water) | | | | | | |
| 25.0 | | Gravel w/ fn. gr. Sand and minor Silt - loose due to saturation, brown & tan, wet | SSS | 14/21 31 | 1450 70% | 4.4 ppm | | |
| 30.0 | | 27-29.2 Transition to Sandy Silt - brown, dense moist at 29.4' on down | SSS | 12/12 20 | 1550 75% | NM | | |

3/5/14
 1514
 TD

30.5'
 30.5'

CAL = CALIFORNIA
 SS = SPLIT SPOON
 ST = SHELBY TUBE
 DB = DISTURBED BULK /BAG SAMPLE

CON = CONTINUOUS SAMPLE
 CORE = CORE SAMPLE
 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 .. = NOT ANALYZED

NS = NO SHEEN
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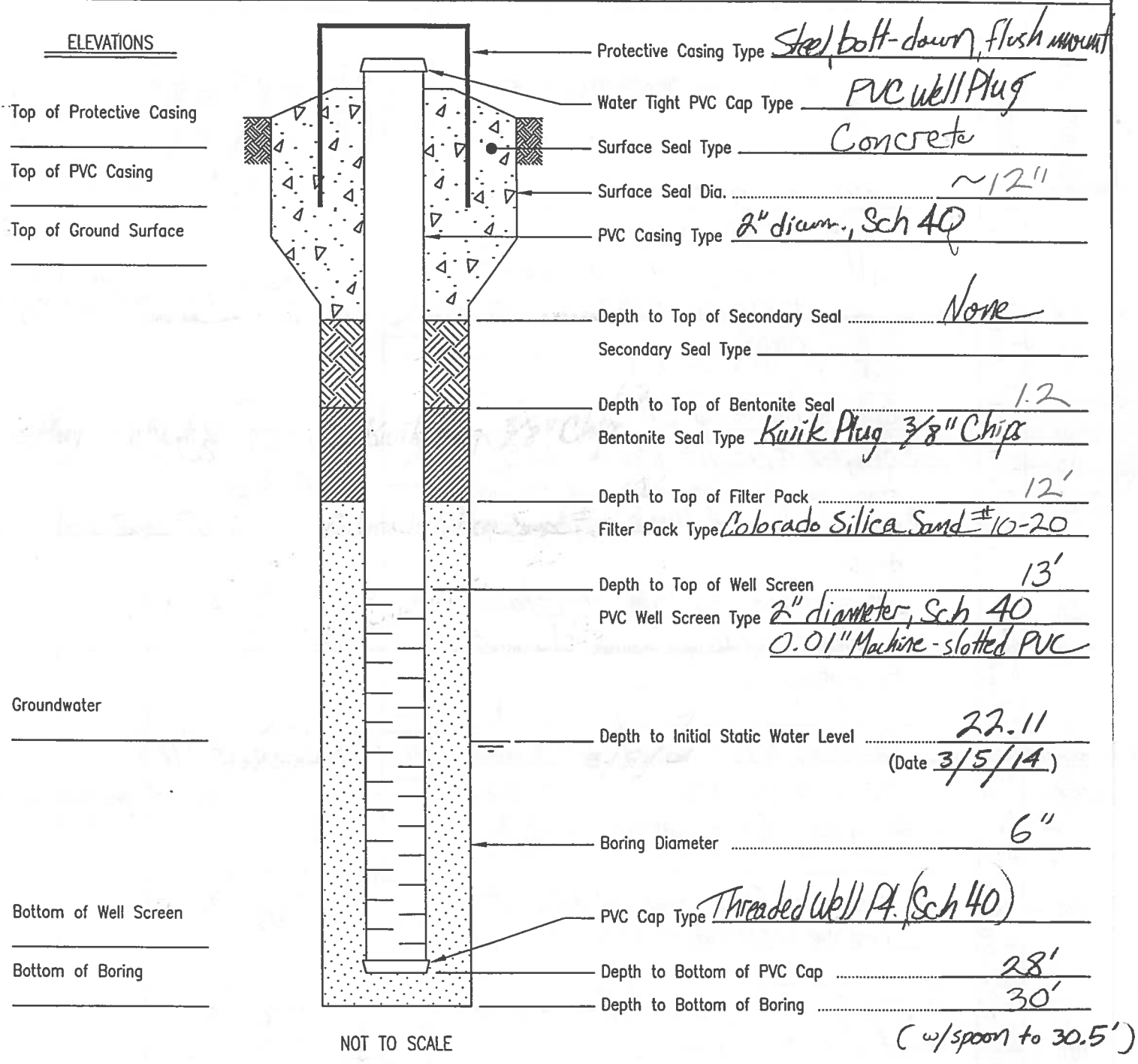
DEPTH TO BOTTOM OF BORING
 30.0'



1745 MW Finish

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL NO. MW-19
 SHEET 1 OF _____
 LOCATION: ~150' south of well NF-3
on St. Andrews Dr.
 DATE: HOLE STARTED: 3/3/14
 COMPLETED: 3/3/14



NOTE: ALL DEPTHS ARE TO BE REFERENCED FROM GROUND SURFACE.



2-10-98/DRILL-1D.DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK:
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Parker
 REMARKS:

MONITORING WELL/BORING NO. MW-20
 SHEET 1 OF 3
 LOCATION: Well location in City parkland betw. Caddie & Turnberry Cts.
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 3/4/14 COMPLETED: 3/5/14
 TIME: STARTED: 9:15 COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | | |
|-------------|--------|---|---------------|----------------------------|-------------------------|-----------------------------------|---------------|----------|--|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING | |
| 0.0 | | Topsoil to ~2' | | | | | | | |
| 5.0 | | Silt - ^{tan} brown, moist, dendritic chalk-colored precipitate along partings (MH) | SSS | 455 | 935 70% | 3.4 ppm | None Detected | | |
| 10.0 | | Silt - tan-brown to brown, moist, sandy silt intervals, scattered gravel | SSS | 1111 | 955 70% | 0.7 ppm | | | |
| 15.0 | | Drillersays - out of gravelly interval at 13' Sandy Silt & Silty Sand - lt. brown, moist, small gravel-scattered to intervals of coarse gr. sand w/ silt | SSS | 777 | 1020 40% | 1.5 ppm | | | |
| 20.0 | | Sandy Silt - brown, moist, decr. small gravel | SSS | 345 | 1035 50% | 3.5 ppm | | | |
| 25.0 | | Sandy Silt - intervals of fn. gr. sand (1-2"), moist, brown | SSS | 668 | 1045 70% | 2 ppm | | | |
| 30.0 | | Sandy Silt - lt. brown, moist, dense | SSS | 445 | 1100 50% | 3 ppm max 7.2 ppm after 5 min. | | | |

CAL = CALIFORNIA
 SS = SPLIT SPOON
 ST = SHELBY TUBE
 DB = DISTURBED BULK /BAG SAMPLE
 CON = CONTINUOUS SAMPLE
 CORE = CORE SAMPLE
 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 " " = NOT ANALYZED
 NS = NO SHEEN
 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
 " " = _____
 " " = _____
 " " = _____
 " " = _____

DEPTH TO BOTTOM OF BORING
67.0'



PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL: _____
 ROCK: _____
 DRILLED BY: _____
 LOGGED BY: _____
 REMARKS: _____

MONITORING WELL/BORING NO. MW-20
 SHEET 2 OF 3
 LOCATION: _____
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 3/4/14 COMPLETED: 3/5/14
 TIME: STARTED: _____ COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|----------------------------------|------|---------------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 30.0 | | Sandy Silt w/ intervals of Silty Sand - moist, lt. brown, dense, scattered small gravel (ML) | SSS | 9 11 14 | 1120 60% | 8.0 ppm slow incr. | | None Detected |
| 35.0 | | Very moist to wet interval above dense gravel Sandy Silt w/ clay - lt. brown, firm, v. moist to wet | SSS | 58 32 | 1140 75% | 2.8 ppm slow incr. 4.7 ppm | | |
| 40.0 | | Gravel w/ Silty Sand at 40.3' - moist | SSS | 55 54 83 | 1155 70% | 5.7 4.6 ppm slow incr. | | |
| 45.0 | | Gravel w/ Sandy Silt/Silty Sand - dense, sl. moist, green-gray to brown-gray (GM) | SSS | 109 91 | 1235 60% | 0.8 ppm | | |
| 50.0 | | As above - dense, sl. moist, gray (GM) | SSS | 48 33 25 | 1450 80% | | | |
| 55.0 | | Cont'd dense Gravel wet interval atop dense sandy silt | SSS | 23 28 49 | 100% | | | |
| 60.0 | | Sandy & Clayey Silt - dense, moist, brown | SSS | | | | | |
| | | As above - dense, v. moist to wet, brown | SSS | | | | | |

In Auger
3/5/14
1700

CAL = CALIFORNIA
 SS = SPLUT SPOON
 ST = SHELBY TUBE
 DB = DISTURBED BULK /BAG SAMPLE
 CON = CONTINUOUS SAMPLE
 CORE = CORE SAMPLE
 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 NS = NO SHEEN
 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
 -- = _____
 -- = _____
 -- = _____
 -- = _____
 -- = _____
 -- = _____
 -- = _____

DEPTH TO BOTTOM OF BORING
67.0'



73-10-98/DRILL-AR. DVC

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL: _____
 ROCK: _____
 DRILLED BY: _____
 LOGGED BY: _____
 REMARKS: _____

MONITORING WELL/BORING NO. MW-20
 SHEET 3 OF 3
 LOCATION: _____
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 3/4/14 COMPLETED: 3/5/14
 TIME: STARTED: _____ COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|---|---------------|----------------------------|-------------------------|---------------------|------|---|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 60.0 | | Driller feels change to gravels at 62' | | | | | | None Detected |
| 65.0 | TD | Gravel w/ Sandy Silt - wet, dense, brown Gravel & Clayey Silt at end of spoon - wet, dense | SSS | 70 154/14 | | | | Auger @ 64' Spoon to 65' Quit for day 3/4/14 @ 6PM |
| 10.0 | | | | | | | | |
| 15.0 | | | | | | | | |
| 20.0 | | | | | | | | |
| 25.0 | | | | | | | | |
| 30.0 | | | | | | | | |

CAL = CALIFORNIA CON = CONTINUOUS SAMPLE NS = NO SHEEN -- = _____
 SS = SPLIT SPOON CORE = CORE SAMPLE SS = SLIGHT SHEEN -- = _____
 ST = SHELBY TUBE CA = SAMPLE SUBMITTED FOR MS = MODERATE SHEEN -- = _____
 DB = DISTURBED BULK CHEMICAL ANALYSIS HS = HEAVY SHEEN -- = _____
 /BAG SAMPLE " " = NOT ANALYZED -- = _____

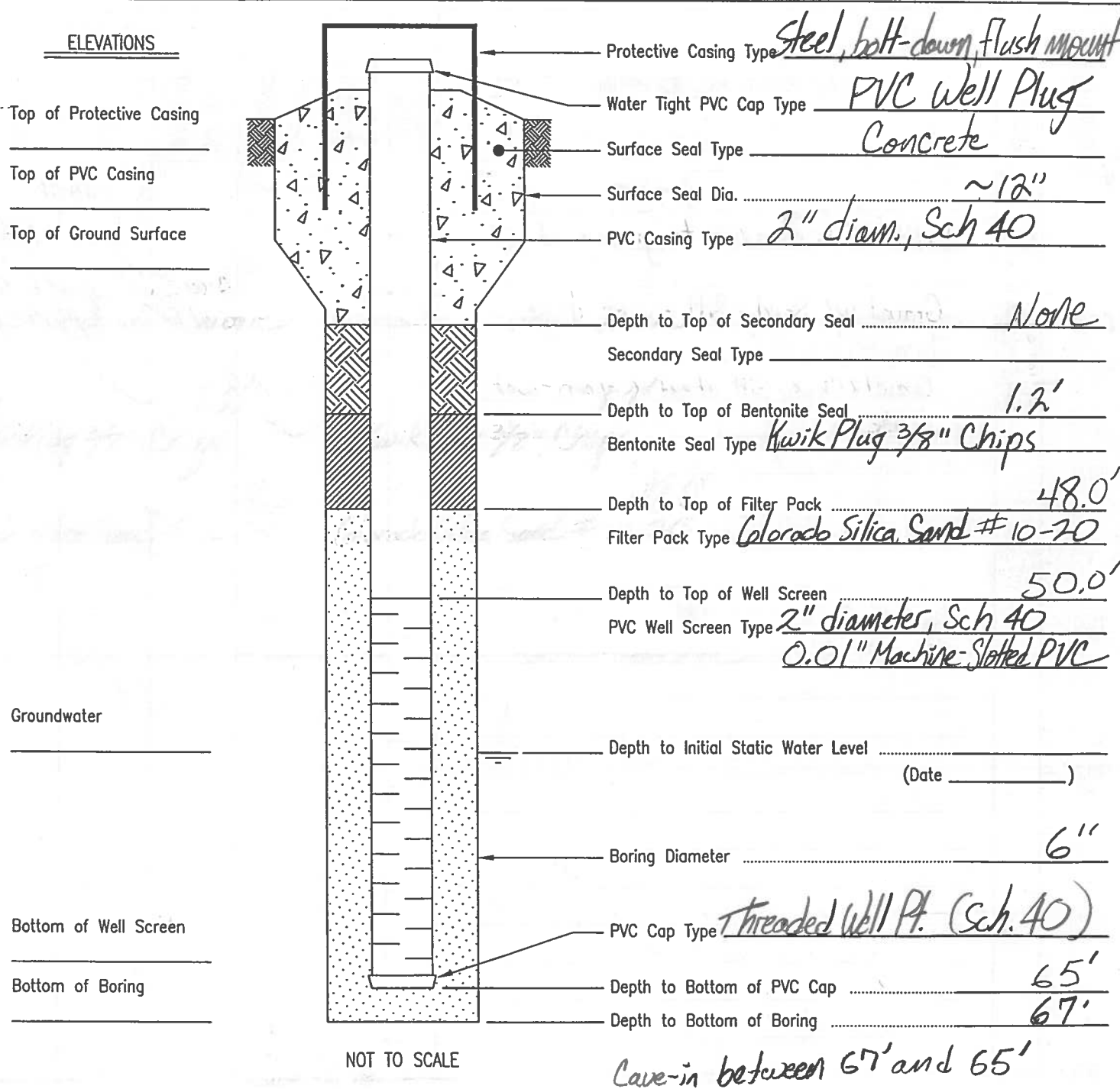
DEPTH TO BOTTOM OF BORING
67.0'



1/3-10-98/DRILL-PK.DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL NO. MW-20
 SHEET 1 OF 1
 LOCATION: Well location in City parkland betw. Caddie & Turnberry Cts.
 DATE: HOLE STARTED: 3/4/14
 COMPLETED: 3/5/14



ELEVATIONS

Top of Protective Casing _____

Top of PVC Casing _____

Top of Ground Surface _____

Groundwater _____

Bottom of Well Screen _____

Bottom of Boring _____

Protective Casing Type Steel, bolt-down flush mount

Water Tight PVC Cap Type PVC Well Plug

Surface Seal Type Concrete

Surface Seal Dia. ~12"

PVC Casing Type 2" diam., Sch 40

Depth to Top of Secondary Seal None

Secondary Seal Type _____

Depth to Top of Bentonite Seal 1.2'

Bentonite Seal Type Kwik Plug 3/8" Chips

Depth to Top of Filter Pack 48.0'

Filter Pack Type Colorado Silica Sand #10-70

Depth to Top of Well Screen 50.0'

PVC Well Screen Type 2" diameter, Sch 40
0.01" Machine-Slotted PVC

Depth to Initial Static Water Level _____
(Date _____)

Boring Diameter 6"

PVC Cap Type Threaded Well Pl. (Sch. 40)

Depth to Bottom of PVC Cap 65'

Depth to Bottom of Boring 67'

Cave-in between 67' and 65'

NOTE: ALL DEPTHS ARE TO BE REFERENCED FROM GROUND SURFACE.



PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill

MONITORING WELL/BORING NO. MW-21
 SHEET 1 OF 1
 LOCATION: SE-most drill hole on Augusta Drive

DRILL TYPE: SOIL:
 ROCK: _____

DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson

ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 2/28/14 COMPLETED: 2/28/14
 TIME: STARTED: 2/28/14 COMPLETED: _____

REMARKS: Obs. Sch 20 PVC broken pipe in borehole at ~ 8" depth, ~ 1" diameter - irrigation pipe?

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|---------------------|------------------------|----------|---------------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING | |
| 0.0 | | Silty Clay - moist, dk brown (w/ organic matter) (OL) | Grab | | 10 ppm | slow | incr. (moisture?) | | |
| 5.0 | | Gravels beginning at 6.5' | SS | 33 | 10 ppm | | as above | | |
| 10.0 | | Gravel w/ Silty Sand and interbeds of silt - moist, light brown & gray brown (GM) Intercept Gw @ 11.3' | SS | 23 17 19 | 14 ppm | | then decrease to 3 ppm | | None Detected |
| 15.0 | | Gravel & Sand - wet, loose, brown GM/GP | SS | 26 29 48 | 830 0 ppm | | | | |
| 20.0 | | | | | | | | | |
| 25.0 | | | | | | | | | |
| 30.0 | | | | | | | | | |

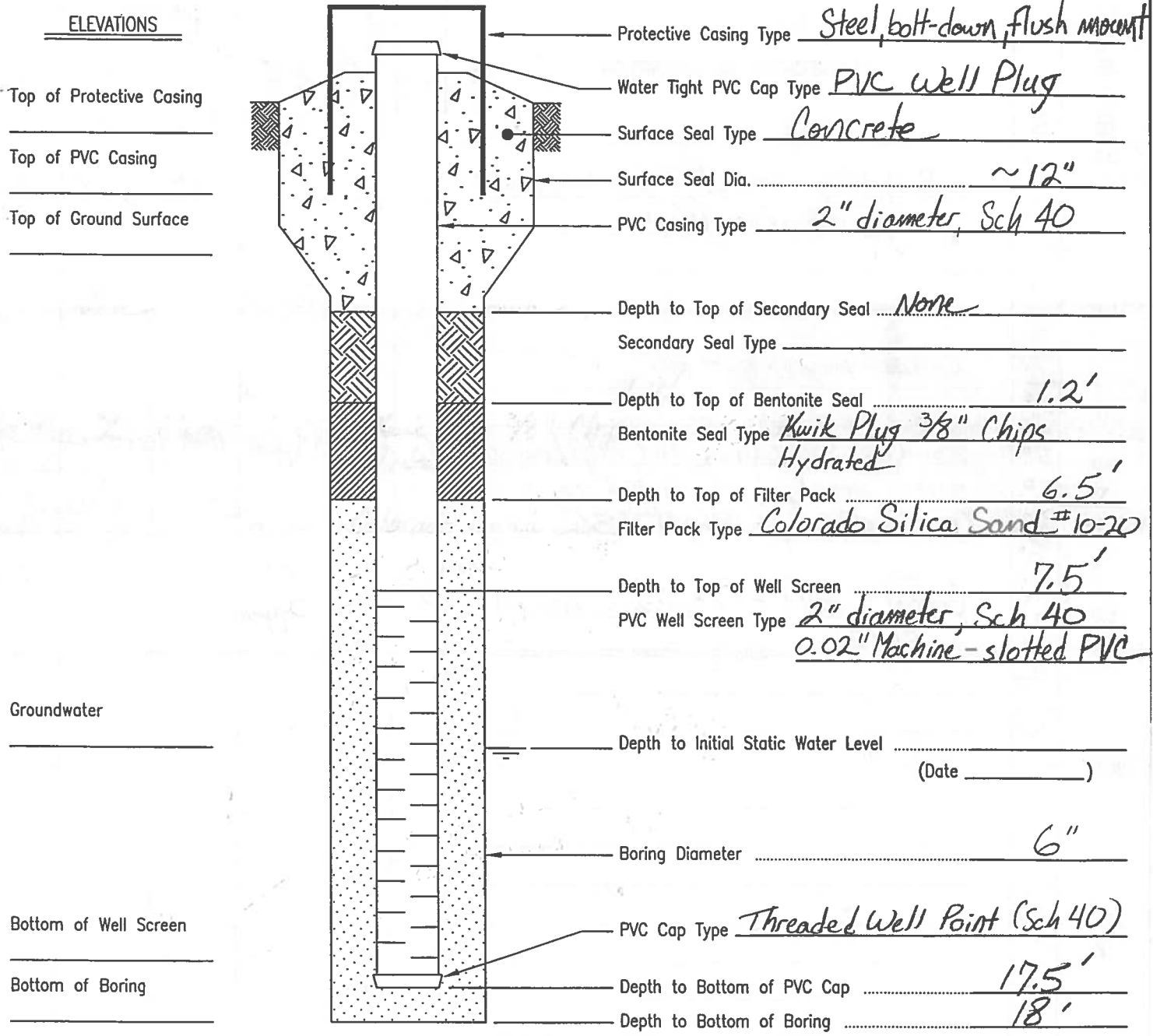
CAL = CALIFORNIA CON = CONTINUOUS SAMPLE NS = NO SHEEN - = _____
 SS = SPLIT SPOON CORE = CORE SAMPLE SS = SLIGHT SHEEN - = _____
 ST = SHELBY TUBE CA = SAMPLE SUBMITTED FOR MS = MODERATE SHEEN - = _____
 DB = DISTURBED BULK /BAG SAMPLE CHEMICAL ANALYSIS HS = HEAVY SHEEN - = _____
 " " = NOT ANALYZED - = _____

DEPTH TO BOTTOM OF BORING
18.0'



PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL NO. MW-2.1
 SHEET 1 OF 1
 LOCATION: SE-most well on Augusta Dr.
 DATE: HOLE STARTED: 2/28/14
 COMPLETED: 2/28/14



ELEVATIONS

Top of Protective Casing _____
 Top of PVC Casing _____
 Top of Ground Surface _____

Groundwater _____

Bottom of Well Screen _____
 Bottom of Boring _____

Protective Casing Type Steel bolt-down flush mount
 Water Tight PVC Cap Type PVC well Plug
 Surface Seal Type Concrete
 Surface Seal Dia. ~12"
 PVC Casing Type 2" diameter, Sch 40
 Depth to Top of Secondary Seal None
 Secondary Seal Type _____
 Depth to Top of Bentonite Seal 1.2'
 Bentonite Seal Type Kwik Plug 3/8" Chips Hydrated
 Depth to Top of Filter Pack 6.5'
 Filter Pack Type Colorado Silica Sand #10-20
 Depth to Top of Well Screen 7.5'
 PVC Well Screen Type 2" diameter, Sch 40 0.02" Machine-slotted PVC
 Depth to Initial Static Water Level _____ (Date _____)
 Boring Diameter 6"
 PVC Cap Type Threaded Well Point (Sch 40)
 Depth to Bottom of PVC Cap 17.5'
 Depth to Bottom of Boring 18'

NOT TO SCALE

well developed w/ deion'd sub pump and disposable tubing

NOTE: ALL DEPTHS ARE TO BE REFERENCED FROM GROUND SURFACE.



T:\3-10-98\DRILL-1.DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill II
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL/BORING NO. MW-22
 SHEET 1 OF 1
 LOCATION: Midway on east leg of Augusta Drive
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 2/28/14 COMPLETED: 2/28/14
 TIME: STARTED: 1140 COMPLETED: 1300

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|---|---------------|----------------------------|-------------------------|---------------------|------|----------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 0.0 | | Clayey Silt - Firm, moist, dark brown Gravel - 2-3' | SS | 22 3 | 0.5 ppm | | None | None |
| 5.0 | | Gravels beginning at 6.5' | | | | | | |
| 10.0 | | Gravel w/ silty sand - wet, loose, brown Driller initially measures GW at 8.0' | SS | 14 11 5 | 2.9 ppm | | | |
| 15.0 | | Gravel and Sand - very fn. gr. sand, brown, loose TD @ 16.1' 17.0' | SS | 7 26 23 | NM | | | |
| 20.0 | | | | | | | | |
| 25.0 | | | | | | | | |
| 30.0 | | | | | | | | |

CAL = CALIFORNIA CON = CONTINUOUS SAMPLE NS = NO SHEEN -- = _____
 SS = SPLIT SPOON CORE = CORE SAMPLE SS = SLIGHT SHEEN -- = _____
 ST = SHELBY TUBE CA = SAMPLE SUBMITTED FOR MS = MODERATE SHEEN -- = _____
 DB = DISTURBED BULK CHEMICAL ANALYSIS HS = HEAVY SHEEN -- = _____
 /BAG SAMPL F -- = NOT ANALYZED -- = _____

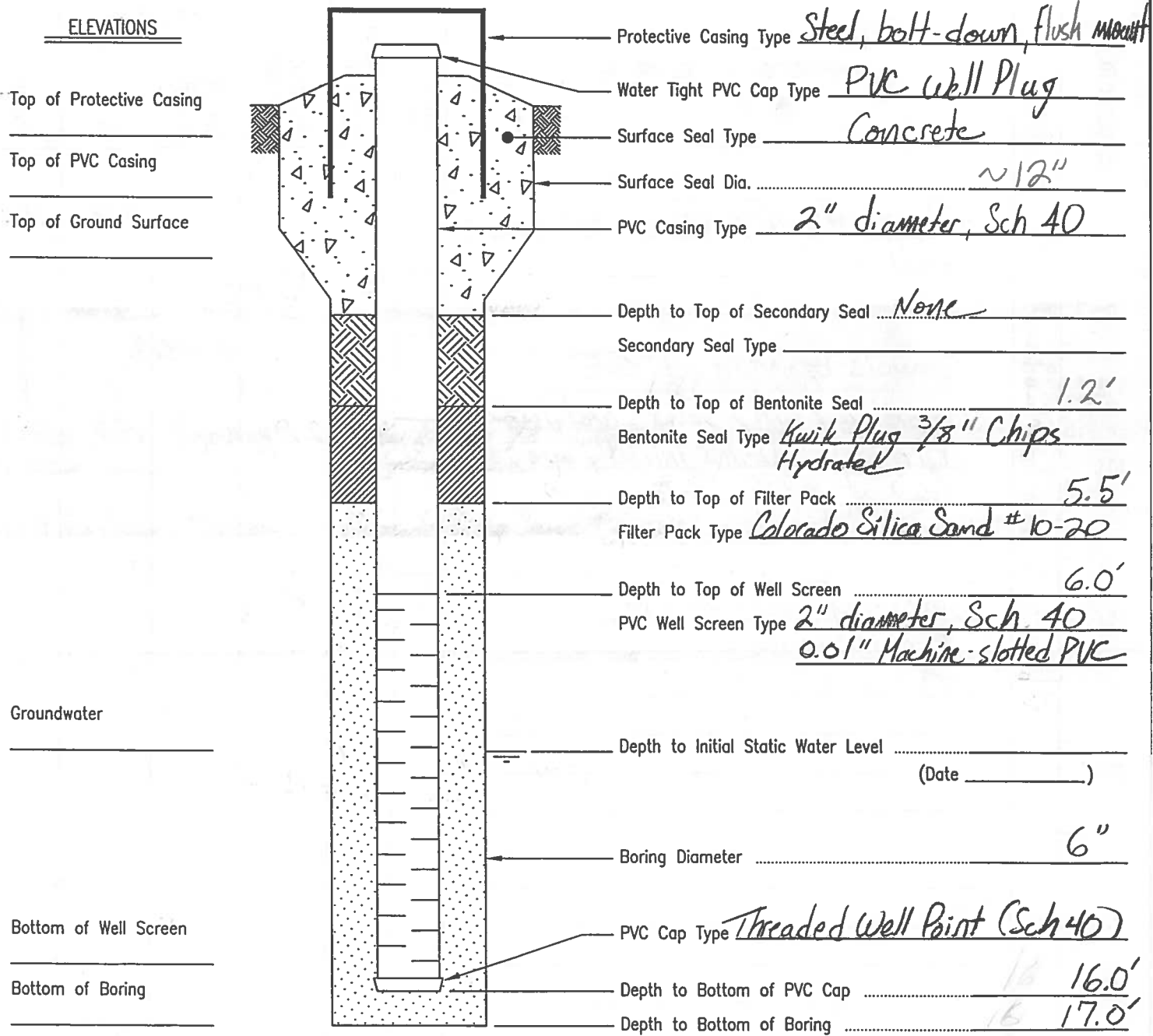
DEPTH TO BOTTOM OF BORING
17.0'



7-10-99/DRILL-PH. DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL NO. MW-22
 SHEET 1 OF 1
 LOCATION: Midway on East Leg of Augusta Dr.
 DATE: HOLE STARTED: 2/28/14
 COMPLETED: 2/28/14



NOT TO SCALE

well developed w/ decon'd sub pump and disposable tubi.

NOTE: ALL DEPTHS ARE TO BE REFERENCED FROM GROUND SURFACE.



2-10-98/DRILL-1.DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL/BORING NO. MW-23
 SHEET 1 OF 1
 LOCATION: On W side of Augusta Dr. -
West Leg betw. residences
3209 & 3211 adjacent to
golf course access
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 3/3/14 COMPLETED: 3/3/14
 TIME: STARTED: 1030 COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|---|---------------|----------------------------|-------------------------|---------------------|---------------|----------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 0.0 | | Gravel to 1' & | | | | | | |
| | | Silt 1'-2' then back to gravel at 2' | | | | | | |
| | | Silt 3' Clayey Silt w/ scattered gravel - v. moist, dk brown (ML) | SS | 334 | 1030 30% | 0.0 ppm | None Detected | |
| 5.0 | | Gravel at 6.5' | | | | | | |
| | | Gravel w/ Silt and fr. gr. Sand - wet, loose, dk. brown (GM) | SS | 89 16 | 1050 10% | 0.0 ppm | | |
| 10.0 | | As above w/ lighter brown color (GM) | SS | 716 23 | 1130 20% | 0.0 ppm | | |
| 15.0 | | | | | | | | |
| 20.0 | | | | | | | | |
| 25.0 | | | | | | | | |
| 30.0 | | | | | | | | |

CAL = CALIFORNIA
 SS = SPLIT SPOON
 ST = SHELBY TUBE
 DB = DISTURBED BULK /BAG SAMPLE
 CON = CONTINUOUS SAMPLE
 CORE = CORE SAMPLE
 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 NS = NO SHEEN
 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
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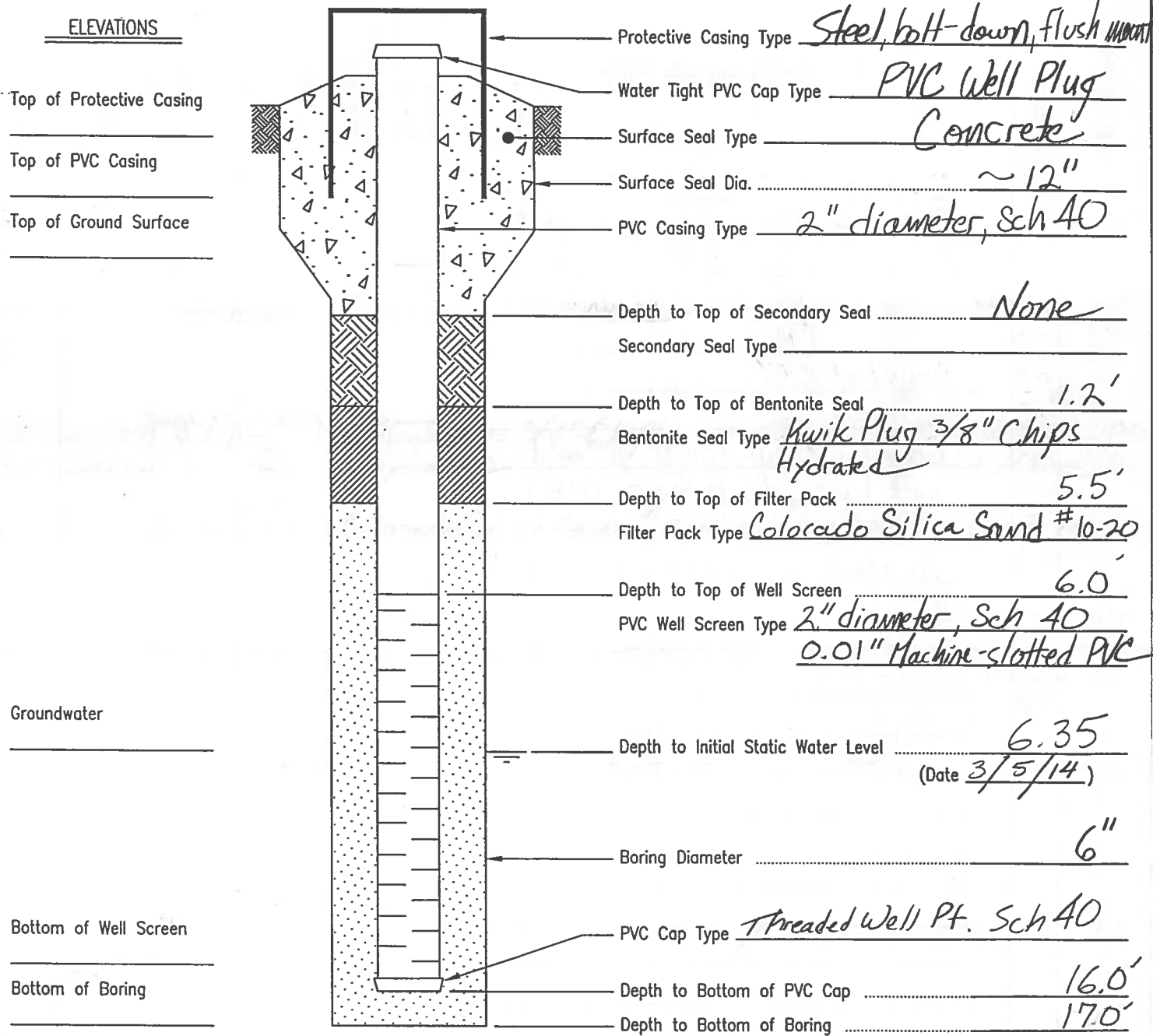
DEPTH TO BOTTOM OF BORING
17.0'



7/3-10-98/BRIL-PM.DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL NO. MW-23
 SHEET 1 OF 1
 LOCATION: Well on W leg of Augusta Dr.
 DATE: HOLE STARTED: 3/3/14
 COMPLETED: 3/3/14



NOT TO SCALE

NOTE: ALL DEPTHS ARE TO BE REFERENCED FROM GROUND SURFACE.

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe using Foremost DR-24 Air Rotary
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL/BORING NO. MW-24
 SHEET 1 OF 3
 LOCATION: Well just S of Caddie Ct. & Story Mill Rd. Intersection
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 3/18/14 COMPLETED: 3/19/14
 TIME: STARTED: 1445 COMPLETED: 1500

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|------------------------------------|----------------------|----------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 0.0 | | <u>0-10' No sample collection</u> | | | | <u>Cuttings collected every 5'</u> | | |
| 5.0 | | | | | | | <u>None Detected</u> | |
| 10.0 | | | | | | | | |
| 15.0 | | <u>Silt, Brown moist</u> <u>adding H₂O to clean base</u> | | | | | | |
| 20.0 | | | | | | | | |
| 25.0 | | <u>23' Silt, Brown with gravels</u> <u>Sub angular to 20mm</u> | | | | | | |
| 30.0 | | | | | | | | |

CAL = CALIFORNIA CON = CONTINUOUS SAMPLE NS = NO SHEEN - = _____
 SS = SPLIT SPOON CORE = CORE SAMPLE SS = SLIGHT SHEEN - = _____
 ST = SHELBY TUBE CA = SAMPLE SUBMITTED FOR MS = MODERATE SHEEN - = _____
 DB = DISTURBED BULK CHEMICAL ANALYSIS HS = HEAVY SHEEN - = _____
 /BAG SAMPLE - = NOT ANALYZED - = _____

DEPTH TO BOTTOM OF BORING

87.5'



PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL: _____
 ROCK: _____
 DRILLED BY: _____
 LOGGED BY: _____
 REMARKS: _____

MONITORING WELL/BORING NO. MW-24
 SHEET 2 OF 3
 LOCATION: _____
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 3/18/14 COMPLETED: 3/19/14
 TIME: STARTED: _____ COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|---------------------|------|--------------------------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 3.00 | | <i>Silt, Brown with gravels Sub-angular to 20 mm</i> | | | | | | <i>None Detected</i> |
| 3.50 | | | | | | | | |
| 4.00 | | | | | | | | |
| 4.50 | | <i>43' as above with decreasing gravels</i> | | | | | | |
| 5.00 | | | | | | | | |
| 5.50 | | <i>Silt, Brown with minor gravels sub angular, minor medium grain sand</i> | | | | | | |
| 6.00 | | | | | | | | |

CAL = CALIFORNIA CON = CONTINUOUS SAMPLE NS = NO SHEEN - - = _____
 SS = SPLUT SPOON CORE = CORE SAMPLE SS = SLIGHT SHEEN - - = _____
 ST = SHELBY TUBE CA = SAMPLE SUBMITTED FOR MS = MODERATE SHEEN - - = _____
 DB = DISTURBED BULK CHEMICAL ANALYSIS HS = HEAVY SHEEN - - = _____
 /BAG SAMPL F - - = NOT ANALYZED - - = _____

DEPTH TO BOTTOM OF BORING
30.5'



73-10-98/0811-004.DWG

PROJECT: NUMBER: 114-716303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL: _____
 ROCK: _____
 DRILLED BY: _____
 LOGGED BY: _____
 REMARKS: _____

MONITORING WELL/BORING NO. MW-24
 SHEET 3 OF 3
 LOCATION: _____
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 3/18/14 COMPLETED: 3/19/14
 TIME: STARTED: _____ COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|---------------------|------|----------|------------------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING | |
| 60.0 | | 61' Biggs gravels based on Aig Gravels rounded in Sand Brown medium to coarse grain | | | | | | | |
| 65.0 | | 65' Silt Brown with subangular gravel moist to sl. wet | | | | | | | |
| 70.0 | | 70 Gravels rounded to 30mm in Sand Brown fine to med grain DRY moist to sl. wet | | | | | | | None Detected |
| 75.0 | | Silt w/ scattered gravel - brown, moist. At 75' driller | | | | | | | |
| 80.0 | | At about 76' - drill into gravel section - tan gray, driller says making water from 77' 80' TD | | | | | | | |
| | | 77-80' Gravel - tan-gray, wet | | | | | | | |
| | | TD 80.5' | | | | | | | |

CAL = CALIFORNIA
 SS = SPLT SPOON
 ST = SHELBY TUBE
 DB = DISTURBED BULK /RAC SAMPLE
 CON = CONTINUOUS SAMPLE
 CORE = CORE SAMPLE
 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 NS = NO SHEEN
 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
 -- = NOT ANALYZED

DEPTH TO BOTTOM OF BORING

80.5'



PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill

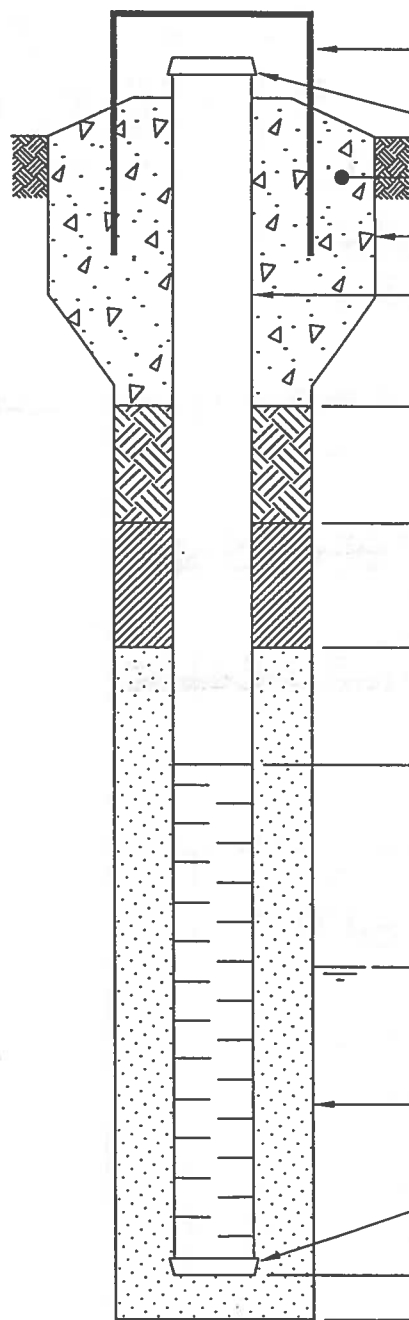
MONITORING WELL NO. MW-24
 SHEET 1 OF 1
 LOCATION: Well just S of Cattie Ct. & Story Mill Rd. Intersection

DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe using Foremost DR-24 Air Rotary
 LOGGED BY: MF Pearson
 REMARKS: _____

DATE: HOLE STARTED: 3/18/14
 COMPLETED: 3/19/14

ELEVATIONS

Top of Protective Casing _____
 Top of PVC Casing _____
 Top of Ground Surface _____



Protective Casing Type Steel, bolt down, flush mount
 Water Tight PVC Cap Type PVC well Plug
 Surface Seal Type Concrete
 Surface Seal Dia. ~12"
 PVC Casing Type 2" diam., Sch 40
 Depth to Top of Secondary Seal None
 Secondary Seal Type _____
 Depth to Top of Bentonite Seal 1.0'
 Bentonite Seal Type Kwik Plug 3/8" Chips
 Depth to Top of Filter Pack 58.5'
 Filter Pack Type Colorado Silica Sand #10-20
 Depth to Top of Well Screen 60.5'
 PVC Well Screen Type 2" diam., Sch 40
0.01" Machine-slotted PVC
 Depth to Initial Static Water Level 74.67
 (Date 3/21/14)
 Boring Diameter 6"
 PVC Cap Type Threaded Well Pt. (Sch. 40)
 Depth to Bottom of PVC Cap 80.5'
 Depth to Bottom of Boring 80.5'

Groundwater _____
 Bottom of Well Screen _____
 Bottom of Boring _____

NOT TO SCALE

NOTE: ALL DEPTHS ARE TO BE REFERENCED FROM GROUND SURFACE.



PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK:
 DRILLED BY: O'Keefe Mobile B-GI HSA
 LOGGED BY: MF Pearson
 REMARKS:

MONITORING WELL/BORING NO. MW-25
 SHEET 1 OF 3
 LOCATION: Story Mill Rd. Approx. 700 ft South of Caddie Ct. & Story Mill Intersection, on W side of Story Mill
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 4/23/14 COMPLETED: 4/23/14
 TIME: STARTED: 830 COMPLETED: 1715

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|---------------------|------|----------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 0.0 | | | | | Recovery | Time | None | |
| 4.78 | | Silty Clay - Firm, moist, lt. brown likely part of road base or fill | SSS | 12 | 40% | | ↓ | ↓ |
| 4.59 | | Clayey Silt - Firm, moist, brown, organic matter | SSS | 10 | 50% | | ↓ | ↓ |
| 4.34 | | As above, but w/ no organic matter | SSS | 7 | 70% | | | |
| 4.61 | | At 18.8' change to Gravel in sandy silt & silt matrix - dense, moist, lt. brown grading downward to silt | SSS | 7 | 70% | 920 | | |
| 12.23 | | Silt to 23.7 then Gravel in Silty Sand matrix - loose, sl. moist, brn-gray | SSS | 20 | 60% | 940 | | |
| 23.7 | | Silt grading down to Sandy Silt/Silty Sand - dense, moist, lt. brown | SSS | 4 | 75% | 1000 | | |
| 34.4 | | | SSS | 7 | | | | |

CAL = CALIFORNIA
 SS = SPLIT SPOON
 ST = SHELBY TUBE
 DB = DISTURBED BULK /BAG SAMPLE
 CON = CONTINUOUS SAMPLE
 CORE = CORE SAMPLE
 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 NS = NO SHEEN
 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
 - = NOT ANALYZED

DEPTH TO BOTTOM OF BORING
64.0'



1/3-10-98/DRILL-HV.DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL: _____
 ROCK: _____
 DRILLED BY: _____
 LOGGED BY: _____
 REMARKS: _____

MONITORING WELL/BORING NO. MW-25
 SHEET 2 OF 3
 LOCATION: Story Mill Rd
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 4/23/14 COMPLETED: _____
 TIME: STARTED: _____ COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|---|---------------|----------------------------|-------------------------|---------------------|------|----------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 30.0 | | | | | Recovery | Time | None | |
| 35.0 | | Silt - trace clay and v.fn. gr. sand, moist, dense, lt. brown | SSS | 466/8 | 70% | 1020 | ↓ | ↓ |
| 40.0 | | 38.5-39.0' clayey silt - v. dense, sl. wet 39.0-39.7 Silty Sand - v. moist 39.7- Clayey Sandy Silt - v. moist, lt. brn. dense | SSS | 445/8 | 80% | 1045 | | |
| 45.0 | | Sl. wet Clayey Silt w/ scattered gravel. Infer large gravel at spoon end - no further recovery. Drilling through scattered gravel & Silt | SSS | 4175/5 | 50% | 1100 | | |
| 50.0 | | Moist Clayey Silt w/ scattered gravel Fn. & Med. gr. Sand - moist, sub angular gr. Sandy Silt - dense, moist, lt. brown | SSS | 141623/42 | 80% | 1135 | | |
| 55.0 | | Sandy Silt w/ minor clay - dense, sl. wet At 48.8' change to Silty Sand w/ Gravel - moist, lt. brown-gray | SSS | 84100/4 | 50% | 1205 | | |
| 60.0 | | Dense material - slow drilling wet drill steel obs cut 49.5' Silty Sand w/ Gravel - wet, lt. brown, dense but loose due to saturation | SSS | 59150/1 | 60% | 1330 | | |

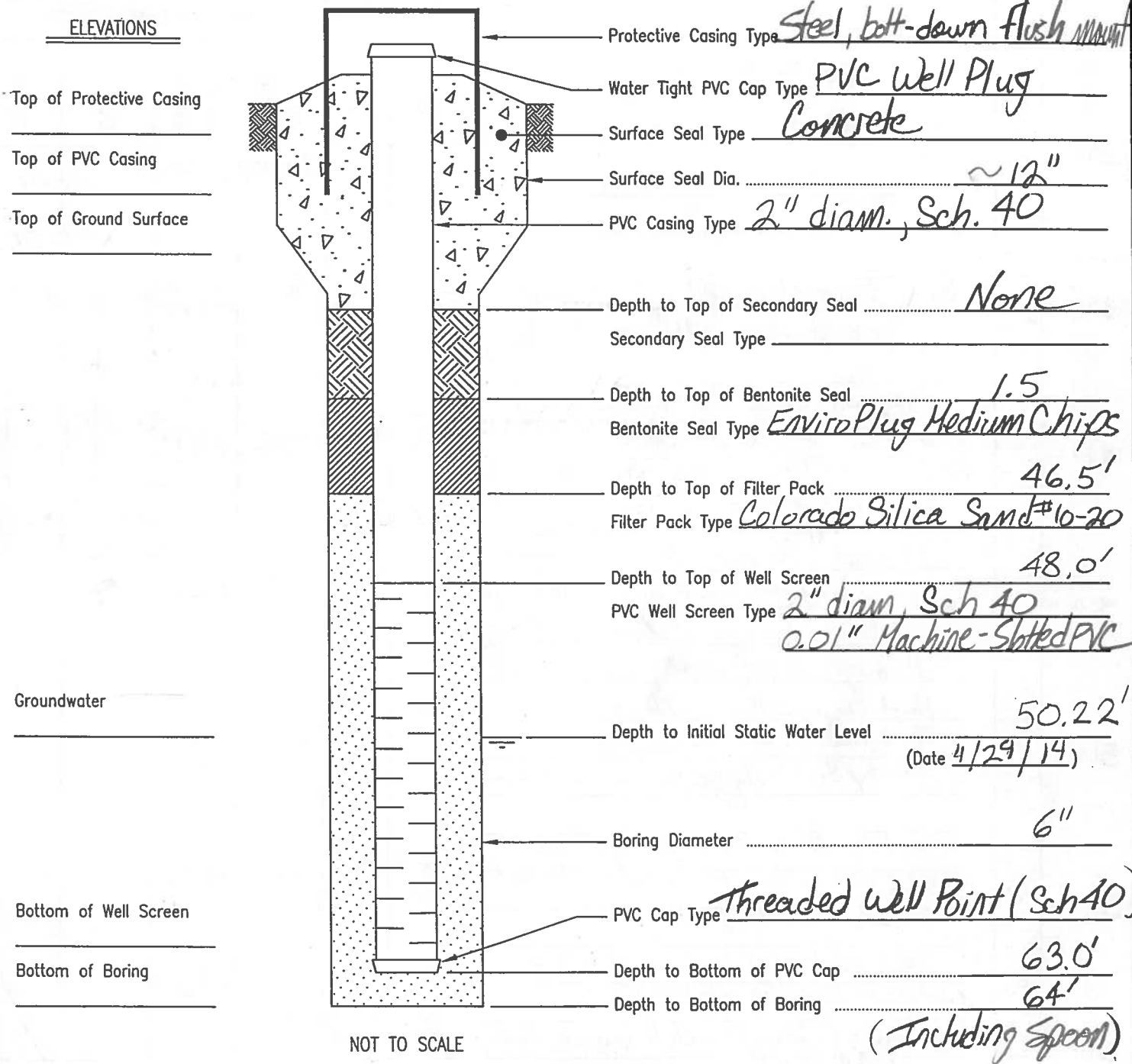
CAL = CALIFORNIA
 SS = SPLIT SPOON
 ST = SHELBY TUBE
 DB = DISTURBED BULK /BAG SAMPLE
 CON = CONTINUOUS SAMPLE
 CORE = CORE SAMPLE
 CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
 NS = NO SHEEN
 SS = SLIGHT SHEEN
 MS = MODERATE SHEEN
 HS = HEAVY SHEEN
 -- = NOT ANALYZED

Well Completion Specs →
 DEPTH TO BOTTOM OF BORING
64.0'
MAXIM

73-10-98/DRILL-MW.DWG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK: _____
 DRILLED BY: O'Keefe w/ Mobile B-61 HSA
 LOGGED BY: MF Pearson
 REMARKS: _____

MONITORING WELL NO. MW-25
 SHEET 1 OF 1
 LOCATION: On Story Mill Rd
 DATE: HOLE STARTED: 4/23/14
 COMPLETED: 4/23/14



NOTE: ALL DEPTHS ARE TO BE REFERENCED FROM GROUND SURFACE.



63
1.5'

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL: _____
 ROCK: _____
 DRILLED BY: _____
 LOGGED BY: _____
 REMARKS: _____

MONITORING WELL/BORING NO. MW-25
 SHEET 3 OF 3
 LOCATION: _____
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 4/23/14 COMPLETED: _____
 TIME: STARTED: _____ COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|---------------------|---------------|----------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 6.0 | TD | Poorly sorted Gravel in a Sandy Silt Matrix - wet, H. brown, dense but loose due to saturation | SSS | 150/5 | Recovery | Time | None Detected | ↓ |
| 6.5 | | | | | 20% | 1415 | | |
| 10.0 | | | | | | | | |
| 15.0 | | | | | | | | |
| 20.0 | | | | | | | | |
| 25.0 | | | | | | | | |
| 30.0 | | | | | | | | |

- CAL = CALIFORNIA
- SS = SPLIT SPOON
- ST = SHELBY TUBE
- DB = DISTURBED BULK /BAG SAMPLE
- CON = CONTINUOUS SAMPLE
- CORE = CORE SAMPLE
- CA = SAMPLE SUBMITTED FOR CHEMICAL ANALYSIS
- .. = NOT ANALYZED
- NS = NO SHEEN
- SS = SLIGHT SHEEN
- MS = MODERATE SHEEN
- HS = HEAVY SHEEN

DEPTH TO BOTTOM OF BORING
64.0'



MAY 23 - 10 - 99 / APRIL - 1994, EUG

PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL:
 ROCK:
 DRILLED BY: O'Keefe Foremost DR-24 Air Rotary
 LOGGED BY: MF Pearson
 REMARKS:

MONITORING WELL/BORING NO. MW-26
 SHEET 1 OF 2
 LOCATION: Well at 2700 McElhattan,
S of driveway
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 3/17/14 COMPLETED: 3/18/14
 TIME: STARTED: 1330 COMPLETED: 1200

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | | |
|-------------|--------|--|---------------|----------------------------|-------------------------|---------------------|------|------------------|---|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING | |
| 0.0 | | Rig arrives at 1100 Observe drill sites and setup until 1330 1340 Start drilling | | | | | | | |
| 0.0 - 5.0 | | Silt - brown, moist w/ scattered gravel | | | | | | None Detected | |
| 5.0 - 10.0 | | Continued Silt w/ scattered gravel - brown, moist | | | 0.0 | | | ↓ | ↓ |
| 10.0 - 15.0 | | At 12' color change brown to gray - gravel - slower drilling at 14' - heavier gravel - tan-gray, no fines, moist | | | 1.4 slow incr. | | | | |
| 15.0 - 20.0 | | At 15.5' INCR. moisture in gravel/silts | | | 3.7 | | | | |
| 20.0 - 25.0 | | Gravel in Sand & Silt matrix - light brown, very moist | | | 0.0 | | | | |
| 25.0 - 30.0 | | As above - moist | | | 0.0 | | | | |
| 30.0 | | Silt w/ scattered gravel - very moist, light brown | | | 0.0 | | | | |

CAL = CALIFORNIA CON = CONTINUOUS SAMPLE NS = NO SHEEN - = _____
 SS = SPLIT SPOON CORE = CORE SAMPLE SS = SLIGHT SHEEN - = _____
 ST = SHELBY TUBE CA = SAMPLE SUBMITTED FOR MS = MODERATE SHEEN - = _____
 DB = DISTURBED BULK CHEMICAL ANALYSIS HS = HEAVY SHEEN - = _____
 /BAG SAMPLE - = NOT ANALYZED - = _____

DEPTH TO BOTTOM OF BORING

38.0'



PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL: _____
 ROCK: _____
 DRILLED BY: _____
 LOGGED BY: _____
 REMARKS: _____

MONITORING WELL/BORING NO. MW-26
 SHEET 2 OF 2
 LOCATION: _____
 ELEVATION: TOP OF HOLE: _____
 (ft) GROUNDWATER: _____
 DATE: STARTED: 3/17/14 COMPLETED: 3/18/14
 TIME: STARTED: _____ COMPLETED: _____

| DEPTH (ft.) | LEGEND | CLASSIFICATION AND DESCRIPTION | SAMPLE SYMBOL | PENET. RESIST. (BLOWS/ft.) | FIELD SCREENING RESULTS | | | |
|-------------|--------|---|---------------|----------------------------|-------------------------|---------------------|---|----------|
| | | | | | HNU (PID) HEADSPACE | OVA (FID) HEADSPACE | ODOR | STAINING |
| 30.0 | | | | | 0.0 | | None Detected | |
| 35.0 | | Silt w/ scattered gravel - moist to very moist, brown | | | 0.0 | | 3/17/14 @ 1500 Measure to 35' for GW none measured Stop @ 35' depth for day | |
| 38.0 | | | | | | | 3/18/14 @ 820 DTGW (below gs in steel) = 4.5' | |
| 10.0 | | | | | | | | |
| 15.0 | | | | | | | | |
| 20.0 | | | | | | | | |
| 25.0 | | | | | | | | |
| 30.0 | | | | | | | | |

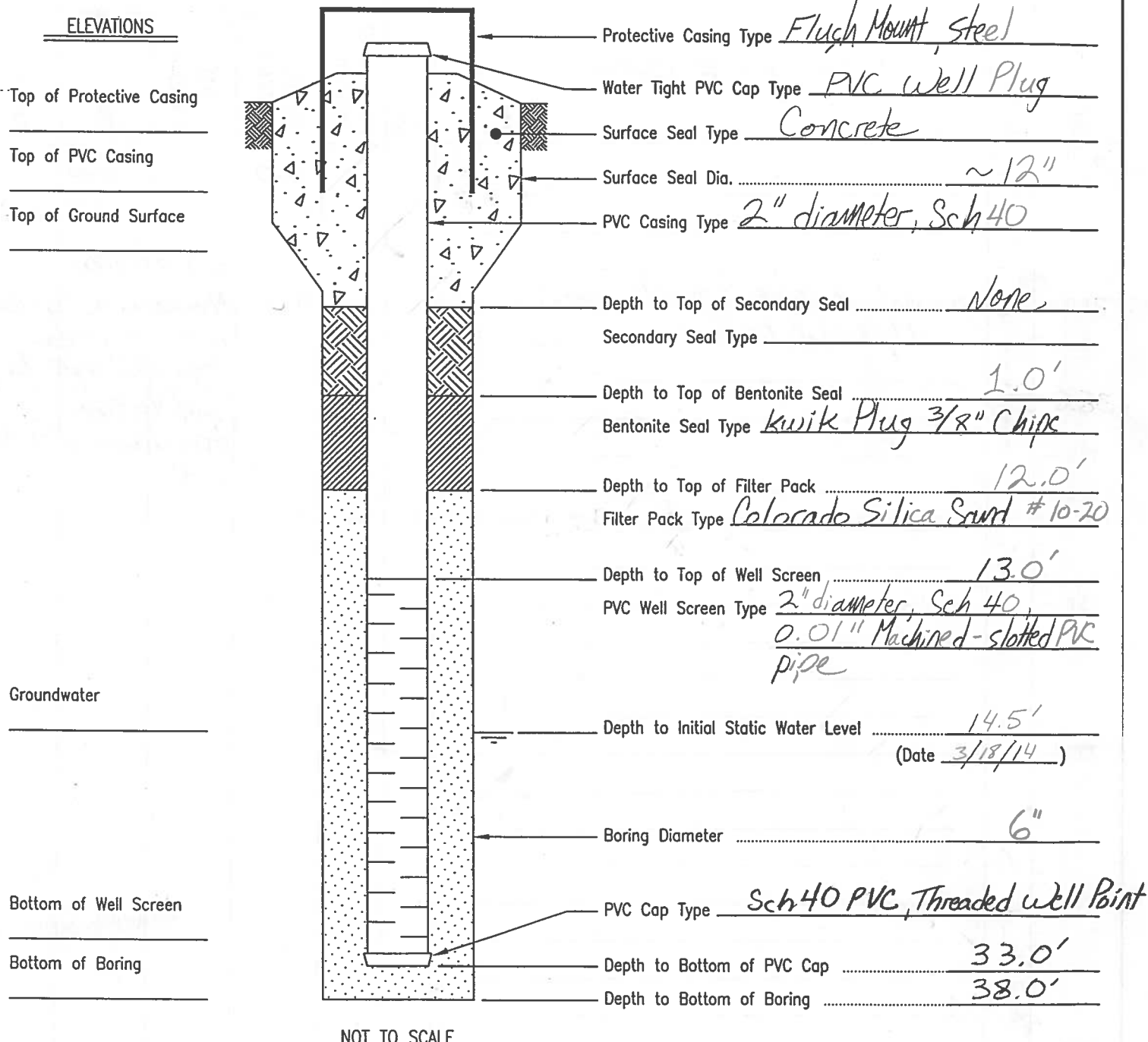
CAL = CALIFORNIA CON = CONTINUOUS SAMPLE NS = NO SHEEN - = _____
 SS = SPLT SPOON CORE = CORE SAMPLE MS = SLIGHT SHEEN - = _____
 ST = SHELBY TUBE CA = SAMPLE SUBMITTED FOR MS = MODERATE SHEEN - = _____
 DB = DISTURBED BULK CHEMICAL ANALYSIS HS = HEAVY SHEEN - = _____
 /BAG SAMPLE - = NOT ANALYZED - = _____

DEPTH TO BOTTOM OF BORING
38.0'



PROJECT: NUMBER: 114-710303A
 NAME: Bozeman Landfill
 DRILL TYPE: SOIL: ✓
 ROCK: _____
 DRILLED BY: O'Keefe Foremost DR-24 Air Rotary
 LOGGED BY: M.F. Pearson
 REMARKS: _____

MONITORING WELL NO. MW-26
 SHEET 1 OF 1
 LOCATION: Well at 2700 McIhattan, S of driveway
 DATE: HOLE STARTED: 3/17/14
 COMPLETED: 3/18/14



ELEVATIONS

Top of Protective Casing _____
 Top of PVC Casing _____
 Top of Ground Surface _____

Groundwater _____

Bottom of Well Screen _____
 Bottom of Boring _____

Protective Casing Type Fluch Mount, steel
 Water Tight PVC Cap Type PVC Well Plug
 Surface Seal Type Concrete
 Surface Seal Dia. ~12"
 PVC Casing Type 2" diameter, Sch 40
 Depth to Top of Secondary Seal None
 Secondary Seal Type _____
 Depth to Top of Bentonite Seal 1.0'
 Bentonite Seal Type kwik Plug 3/8" Chips
 Depth to Top of Filter Pack 12.0'
 Filter Pack Type Colorado Silica Sand #10-20
 Depth to Top of Well Screen 13.0'
 PVC Well Screen Type 2" diameter, Sch 40, 0.01" Machined-slotted PVC pipe
 Depth to Initial Static Water Level 14.5'
 (Date 3/18/14)
 Boring Diameter 6"
 PVC Cap Type Sch 40 PVC, Threaded well Point
 Depth to Bottom of PVC Cap 33.0'
 Depth to Bottom of Boring 38.0'

NOTE: ALL DEPTHS ARE TO BE REFERENCED FROM GROUND SURFACE.



1/3-10-98/2811-113.DWG

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/27/14 @ 1255 Station No. LF-2
 Personnel: DW BO Weather: CLOUDY
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 19.6 - Depth to Water 13.30 = 6.3 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other: 2 BAILETS
6.3 ft. water in well x 0.653 gal./ft.* = one casing volume 4.11 gals. x 3 = purge volume 12.34 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------|-------------|-------------|------------|--------------|--------------|
| <u>1245</u> | <u>4.11</u> | <u>8.69</u> | <u>7.32</u> | <u>611</u> | <u>81.7</u> | <u>10.9</u> |
| <u>1250</u> | <u>8.22</u> | <u>8.74</u> | <u>7.27</u> | <u>617</u> | <u>87.0</u> | <u>11.13</u> |
| <u>1255</u> | <u>12.34</u> | <u>8.89</u> | <u>7.20</u> | <u>623</u> | <u>99.3</u> | <u>10.70</u> |
| <u>1300</u> | <u>—</u> | <u>9.14</u> | <u>7.07</u> | <u>627</u> | <u>113.9</u> | <u>11.08</u> |

DO measured: In-well In water bailed In water pumped Other _____

DRAIN HOLE

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____
 Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|--|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| | | | | |
|-------------|-------------------|------------------|--|---|
| Meter | Model No. | Calibration Date | *Decontamination | |
| Water level | <u>Water Line</u> | <u>—</u> | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI-556</u> | <u>3/27/14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/26/14 @ 1000 Station No. LF-3
 Personnel: DW BR Weather: RAINY / CLOUDY
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt) NAT STEEL
 Well Depth (ft. below measuring point): 37.5 - Depth to Water 13.22 = 24.28 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____

24.28 ft. water in well x 0.653 gal./ft. * = one casing volume 15.85 gals. x 3 = purge volume 48 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): 1 GPM

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|------|--------------------|------------|------|-----|-------|------|
| 0926 | START PUMPING | | | | | |
| 0951 | 14.25 | PURGED DRY | | | | |
| 1000 | SAMPLE | 9.70 | 7.11 | 709 | 253.4 | 8.24 |
| | | | | | | |
| | | | | | | |

DO measured: In-well In water bailed In water pumped Other: Final Parameter w/YSI VIA FLOW THROUGH CELL

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____

Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|--|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|------------------|------------------|--|---|
| Water level | <u>Waterline</u> | _____ | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI 556</u> | <u>3/26/14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | " " | " " | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | " " | " " | | |
| DO | " " | " " | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/26/14 @ 1525 Station No. MW-4
 Personnel: DW BQ Weather: CLOUDY
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 38.0 - Depth to Water 19.86 = 18.14 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____

18.14 ft. water in well x 0.163 gal./ft. * = one casing volume 11.8 gals. x 3 = purge volume 35.53 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): 0.4 GPM

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|----------------------------------|--------------------|------|------|------|-------|------|
| 1335 | BEGAN PURGING | | | | | |
| 1413 | 12.0 | 9.62 | 6.90 | 1047 | 222.8 | 4.42 |
| 1454 | 24.0 | 9.88 | 6.84 | 1053 | 226.3 | 3.68 |
| 1525 | 36.0 | 9.82 | 6.76 | 1056 | 208.7 | 3.50 |
| <i>Down - 1533</i> <i>ACE</i> | DH | 9.39 | 6.75 | 1026 | 215.3 | 2.36 |

DO measured: In-well In water bailed In water pumped Other: MADE FLOW THRU CELL USING SMALL JAR OVERFLOW

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____

Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|--|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>CATIONS ANION</u> | | |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>ALKALINITY</u> | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|------------------|------------------|--|---|
| Water level | <u>Waterline</u> | <u>-</u> | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>VSI 556</u> | <u>3/26/14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | <u>" "</u> | <u>" "</u> | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | <u>" "</u> | <u>" "</u> | | |
| DO | <u>" "</u> | <u>" "</u> | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/26/14 @ 1205 Station No. MW-0
 Personnel: DW BQ Weather: cloudy
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 66.0 - Depth to Water 31.33 = 32.67 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____

32.67 ft. water in well x 0.163 gal./ft. * = one casing volume 5.32 gals. x 3 = purge volume 15.9 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|------|--------------------|------|----|----|-----|----|
| 1137 | | | | | | |
| 1225 | SAMPLE COLLECTED | | | | | |
| | | | | | | |
| | | | | | | |

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____

Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|------------------------------------|------------------|--------------------------------|
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved [] or total [] | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | ANIONS AND CATIONS | 1 1 | " " |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|--|---|
| Water level | <u>Water Line</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI 590</u> | <u>3/26/14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | <u> </u> | <u> </u> | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | <u> </u> | <u> </u> | | |
| DO | <u> </u> | <u> </u> | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/26/14 @ 1210 Station No. MW-03
 Personnel: DW BR Weather: CLOUDY
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 100.0 - Depth to Water 18.84 = 81.16 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
81.16 ft. water in well x 0.163 gal./ft * = one casing volume 13.22 gals. x 3 = purge volume 39.68 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²
 Pumping rate (gpm): 2 GPM

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|------|--------------------|-------|------|-----|---------|-------|
| 1136 | START PURGE | | | | | |
| 1144 | 19.0 | 9.57 | 7.67 | 348 | 191.5 | 10.12 |
| 1154 | 38.0 | 10.08 | 7.44 | 348 | 202.9 | 9.70 |
| 1210 | 50.0 | 9.98 | 7.38 | 348 | 208.1 | 7.92 |
| 1210 | SAMPLE | | | | IN WELL | 6.52 |
| | | | | | | 1220 |

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other _____
 Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|--|------------------|--------------------------------|
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | CATIONS AN IONS | " " | " " |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|--|---|
| Water level | <u>Water Line</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YS 5510</u> | <u>3/26/14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/27/14 @ 9:10 Station No. MW-8A
 Personnel: DW 302 Weather: cloudy
 Well Locked? Yes No Note Any Problems With Condition of Well: none
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 59.50 - Depth to Water 46.65 = 12.85 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
12.85 ft. water in well x 0.163 gal./ft.* = one casing volume 2.09 gals. x 3 = purge volume 6.28 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------|-------------|---------------------|-------------|--------------|-------------|
| <u>9:05</u> | <u>2.0</u> | <u>7.70</u> | <u>6.82</u> | <u>1254</u> | <u>312.5</u> | <u>9.75</u> |
| <u>9:10</u> | <u>BAILED DRY</u> | <u>3.0</u> | <u>LINAL PURGED</u> | | | |
| <u>9:20</u> | <u>---</u> | <u>9.00</u> | <u>6.79</u> | <u>1270</u> | <u>302.4</u> | <u>8.25</u> |

Down
NOTE

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailor Spigot Grab Other _____
 Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|------------------------------------|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved [] or total [] | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | CATIONS ANIONS | 2 - " " | " " |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | ALKALINITY | " " | " " |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|--------------------|------------------|--|---|
| Water level | <u>Water Level</u> | <u>---</u> | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI 550C</u> | <u>3/27/14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | <u> </u> | <u> </u> | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | <u> </u> | <u> </u> | | |
| DO | <u> </u> | <u> </u> | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/27/14 @ 9:20 Station No. MW-8C
 Personnel: DW Weather: cloudy
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 103.0 - Depth to Water 42.4 = 60.4 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
60.4 ft. water in well x 0.163 gal./ft.* = one casing volume 9.84 gals. x 3 = purge volume 29.53 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------|-------------|-------------|------------|--------------|--------------|
| <u>9:00</u> | <u>10.0</u> | <u>9.40</u> | <u>6.97</u> | <u>415</u> | <u>312.5</u> | <u>10.9</u> |
| <u>9:10</u> | <u>20.0</u> | <u>9.89</u> | <u>7.28</u> | <u>415</u> | <u>299.5</u> | <u>11.00</u> |
| <u>9:20</u> | <u>30.0</u> | <u>9.89</u> | <u>7.23</u> | <u>417</u> | <u>297.1</u> | <u>11.05</u> |
| | | | | | | |
| | | | | | | |

DO measured: In-well In water bailed In water pumped Other ALL PARAMS MEASURED IN FLOW THROUGH CELL

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other _____
 Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|--|-----------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>Ammonium Chloride</u> | <u>2 - 250ml poly</u> | <u>u u</u> |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>Alkalinity</u> | <u>250ml poly</u> | <u>u u</u> |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|--------------------|------------------|--|---|
| Water level | <u>Water level</u> | <u> </u> | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>Ysi 5510</u> | <u>3/27/14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | <u> </u> | <u> </u> | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | <u> </u> | <u> </u> | | |
| DO | <u> </u> | <u> </u> | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3-26-14 ^{No} ~~SAMPLES~~ Station No. MW-9A
 Personnel: DW BQ Weather: cloudy
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 39.0 - Depth to Water 27.48 = 11.52 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____

11.52 ft. water in well x 0.163 gal./ft. * = one casing volume 1.87 gals. x 3 = purge volume 5.63 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

| Time | Cumulative Gallons | °C Temp | EVACUATION DATA | | mg/L DO |
|-----------------------|--------------------|-------------|-----------------|-------------------------|--------------|
| | | | pH | SC | |
| <u>DOWN HOLE 1305</u> | <u>2.0</u> | <u>9.53</u> | <u>6.89</u> | <u>NS</u> <u>984</u> | <u>200.7</u> |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |

DO measured: In-well In water bailed In water pumped Other 1/51 ~~IN BAILED~~ DOWN HOLE
POST 1 CASING

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____

Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|------------------------------------|------------------|--------------------------------|
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved [] or total [] | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|--|---|
| Water level | <u>Water line</u> | <u>3/26/14</u> | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI 55C</u> | | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: REMOVED ONE CASING VOLUME AND THEN MEASURED
PARAMETERS DOWN HOLE WITH YSI.

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3-27-14 @ 1200 Station No. MW-10
 Personnel: DW, BQ Weather: CLEAR, 30's
 Well Locked? Yes No Note Any Problems With Condition of Well: GOOD CONDITION
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 13.5' - Depth to Water 1.40 = 12.1 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
12.1 ft. water in well x 0.163 gal./ft.* = one casing volume 1.97 gals. x 3 = purge volume 6.0 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|------|--------------------|---------|------|------|------|------|
| 1148 | BEGAN | BAILING | | | | |
| 1152 | 2.0 | 3.58 | 6.95 | 1236 | 21.5 | 4.31 |
| 1156 | 4.0 | 3.64 | 6.93 | 1242 | 15.7 | 2.77 |
| 1200 | 6.0 | 3.58 | 6.93 | 1245 | 12.2 | 2.39 |
| 1200 | COLLECTED | SAMPLES | | | | |
| 1208 | DOWN HOLE | 3.80 | 6.92 | 1236 | 8.5 | 0.79 |

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other _____
 Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|--|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved <input checked="" type="checkbox"/> or total <input type="checkbox"/> <u>FE, MG</u> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|------------------|------------------|--|---|
| Water level | <u>Waterline</u> | <u>3-27-14</u> | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>VSI 556</u> | <u>" "</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | <u>" "</u> | <u>" "</u> | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | <u>" "</u> | <u>" "</u> | | |
| DO | <u>" "</u> | <u>" "</u> | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/27/14 @ 10:25 Station No. MW-12
 Personnel: DJA Weather: CLOUDY
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 105.8 - Depth to Water 55.72 = 10.08 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
10.08 ft. water in well x 0.163 gal./ft.* = one casing volume 1.64 gals. x 3 = purge volume 4.92 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

| 1010 BEGAN BAILING | | EVACUATION DATA | | | | |
|--------------------|--------------------|-----------------|------|-----|-------|------|
| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
| 1014 | <u>1.64</u> | 11.12 | 6.54 | 981 | 103.4 | 2.70 |
| 1020 | <u>3.28</u> | 11.10 | 6.59 | 989 | 74.1 | 4.56 |
| 1024 | <u>4.92</u> | 10.64 | 6.50 | 989 | 61.4 | 3.80 |
| 1025 | SAMPLED | | | | | |
| 1035 | — | 11.88 | 6.44 | 989 | 55.9 | 0.55 |

DO measured: In-well In water bailed In water pumped Other _____ 5.1%

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailor Spigot Grab Other _____
 Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved <input checked="" type="checkbox"/> or total <input type="checkbox"/> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | CATION ANION | 2 250 ml poly | " " |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | ALKALINITY | 250 ml poly | " " |

Laboratory: Pace Analytical Services, Inc. Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|--|---|
| Water level | <u>Water line</u> | — | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI 556</u> | <u>3-27-14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | <u>" "</u> | <u>" "</u> | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | <u>" "</u> | <u>" "</u> | | |
| DO | <u>" "</u> | <u>" "</u> | | |

Comments: _____

DOWEL HOLE

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/26/14 @ 1512 Station No. MW-13
 Personnel: BQ, DW Weather: CLOUDY

Well Locked? Yes No Note Any Problems With Condition of Well: _____

Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____

Aquifer: Tertiary sediments (sand, gravel, and clayey silt)

Well Depth (ft. below measuring point): 61.3 - Depth to Water 43.46 = 17.84 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____

17.84 ft. water in well x _____ gal./ft. * = one casing volume 2.9 gals. x 3 = purge volume 9.0 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|------|--------------------|-------|------|------|--------------------|--------------|
| 1435 | START BAILING | | | | | |
| 1443 | 2.0 | 11.41 | 6.57 | 1063 | 230.0 | 3.21 |
| 1458 | 6.0 | 10.83 | 6.51 | 1075 | 226.2 | 3.15 |
| 1512 | 9.0 | 11.48 | 6.50 | 1070 | 212.4 | 3.75 |
| 1512 | SAMPLE VOC | 11.72 | 6.40 | 1067 | DOWN HOLE 214.1 | 0.49 1515 |

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other _____

Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|------------------------------------|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved [] or total [] | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|------------------|------------------|--|---|
| Water level | <u>Waterline</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>VSI 556</u> | <u>3-26-14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | <u>" "</u> | <u>" "</u> | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | <u>" "</u> | <u>" "</u> | | |
| DO | <u>" "</u> | <u>" "</u> | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/26/14 @ 1745 Station No. MW-15
 Personnel: DW BCR Weather: CLOUDY
 Well Locked? Yes No [] Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC [] Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 72.5 - Depth to Water 49.05 = 23.45 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump [] Disposable bailer Spigot [] Other _____
23.45 ft. water in well x 0.163 gal./ft.* = one casing volume 3.82 gals. x 3 = purge volume 11.46 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²
 Pumping rate (gpm): _____

| Time | Cumulative Gallons | EVACUATION DATA | | | | |
|-------------|--------------------|-----------------|-------------|-------------|--------------|--------------|
| | | Temp °C | pH | SC | ORP | DO |
| <u>1715</u> | <u>4.0</u> | <u>8.22</u> | <u>7.24</u> | <u>465</u> | <u>239.4</u> | <u>11.32</u> |
| <u>1730</u> | <u>8.0</u> | <u>7.74</u> | <u>7.14</u> | <u>451</u> | <u>247.8</u> | <u>11.00</u> |
| <u>1745</u> | <u>12.0</u> | <u>6.51</u> | <u>7.16</u> | <u>449</u> | <u>252.6</u> | <u>11.12</u> |
| <u>1745</u> | <u>COLLECTED</u> | <u>SAMPLE</u> | <u>NO</u> | <u>DOWN</u> | <u>TOO</u> | <u>DEEP</u> |
| | | | | | | |
| | | | | | | |

DO measured: In-well [] In water bailed In water pumped [] Other _____

WELL SAMPLING

Sampling Method: Submersible Pump [] Disposable Polyethylene Bailer Spigot [] Grab [] Other _____
 Sample Type: Natural Duplicate [] Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|--|--|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No [] | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No [] | Metals: dissolved <input checked="" type="checkbox"/> or total [] | 250 ml poly | HNO ₃ |
| Yes <input checked="" type="checkbox"/> No [] | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input checked="" type="checkbox"/> No [] | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No [] | <u>CAT IONS AMMON</u> | <u>u u</u> | <u>u u</u> |
| Yes <input checked="" type="checkbox"/> No [] | <u>ALKALINITY</u> | <u>u u</u> | <u>u u</u> |

Laboratory: Pace Analytical Services, Inc. Billings, Montana Chain-of-Custody: Yes No []

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|--------------------|------------------|--|-----------------------------|
| Water level | <u>Water level</u> | <u>3/26/14</u> | Liquinox: Yes <input checked="" type="checkbox"/> No [] | Scrub: Yes [] No [] |
| pH | <u>YSI 556</u> | | Potable H ₂ O: Yes [] No [] | Steam: Yes [] No [] |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No [] | Nitric Acid: Yes [] No [] |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/26/14 @ 1030 Station No. MW-16
 Personnel: DW BQ Weather: CLOUDY
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 40.0 - Depth to Water 25.64 = 14.36 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
14.36 ft. water in well x 0.163 gal./ft.* = one casing volume 2.34 gals x 3 = purge volume 7.02 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): BAUMG

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------|------|----------------|----|-----|----|
| <u>1030</u> | <u>COLLECTED</u> | | <u>SAMPLES</u> | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____
 Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|------------------------------------|--------------------|--------------------------------|
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved [] or total [] | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>CATION ANION</u> | <u>250 ml poly</u> | <u>none</u> |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>ALKALINITY</u> | <u>250 ml poly</u> | <u>none</u> |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|------------------|------------------|--|---|
| Water level | <u>Waterline</u> | <u>3/26/14</u> | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI 556</u> | | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | <u> </u> | <u> </u> | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | <u> </u> | <u> </u> | | |
| DO | <u> </u> | <u> </u> | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/25/14 @ 1648 Station No. MLW-17
 Personnel: DW BR Weather: PARTLY CLOUDY
 Well Locked? Yes [] No [] Note Any Problems With Condition of Well: CONCRETE AROUND TOP FALLING APART
 Casing Dia. & Type: 2-inch PVC [] 4-inch PVC [] Other _____ Measuring Point: Top of PVC, north side [] Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 85.0 - Depth to Water 75.60 = 9.4 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump [] Disposable bailer Spigot [] Other _____

9.4 ft. water in well x 0.163 gal/ft* = one casing volume 1.53 gals. x 3 = purge volume 4.60 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | DO ORP | ORP DO |
|-------------|--------------------|--------------|--------------|------------|----------------------|----------------------|
| <u>1632</u> | <u>.5</u> | <u>10.76</u> | <u>10.58</u> | <u>937</u> | <u>1.64</u> | <u>-0.0</u> |
| <u>1637</u> | <u>1.75</u> | <u>10.08</u> | <u>10.63</u> | <u>911</u> | <u>1.36</u> | <u>-135.0</u> |
| <u>1648</u> | <u>3.25</u> | <u>10.27</u> | <u>10.64</u> | <u>896</u> | <u>1.44</u> | <u>-162.0</u> |
| | | | | | | |
| | | | | | | |

DO measured: In-well [] In water bailed In water pumped [] Other PAP, WEA, VIA VSI LAST PURGE IN SAMPLE CAP

WELL SAMPLING

Sampling Method: Submersible Pump [] Disposable Polyethylene Bailers Spigot [] Grab [] Other: _____

Sample Type: Natural Duplicate [] Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|--|--|--------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No [] | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No [] | Metals: dissolved [<input checked="" type="checkbox"/> or total [] | 250 ml poly | HNO ₃ |
| Yes [] No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input checked="" type="checkbox"/> No [] | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No [] | <u>CATION ANION</u> | <u>250 ml poly</u> | <u>NONE</u> |
| Yes <input checked="" type="checkbox"/> No [] | <u>ALKALINITY</u> | <u>250 ml poly</u> | <u>NONE</u> |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes [x] No []

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|------------------|------------------|--|-----------------------------|
| Water level | <u>Waterline</u> | <u> </u> | Liquinox: Yes <input checked="" type="checkbox"/> No [] | Scrub: Yes [] No [] |
| pH | <u>YSI 556</u> | <u>3/25/14</u> | Potable H ₂ O: Yes [] No [] | Steam: Yes [] No [] |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No [] | Nitric Acid: Yes [] No [] |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/26/14 @ 855 Station No. MW-19
 Personnel: DW BQ Weather: RAINY / CLOUDY
 Well Locked? Yes [] No [] Note Any Problems With Condition of Well: CONCRETE AROUND WELL VERY LOOSE
 Casing Dia. & Type: 2-inch PVC 4-inch PVC [] Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 28.0 - Depth to Water 21.23 = 6.77 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump [] Disposable bailer Spigot [] Other _____
6.77 ft. water in well x 0.163 gal./ft. * = one casing volume 1.1 gals. x 3 = purge volume 3.3 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------|-------------|-------------|------------|----------------|--------------|
| <u>0833</u> | | | | | | |
| <u>0840</u> | <u>1.25</u> | <u>8.99</u> | <u>6.82</u> | <u>806</u> | <u>229.7</u> | <u>11.40</u> |
| <u>0847</u> | <u>2.3</u> | <u>8.70</u> | <u>7.01</u> | <u>829</u> | <u>234.0</u> | <u>10.39</u> |
| <u>0853</u> | <u>3.5</u> | <u>8.33</u> | <u>7.03</u> | <u>837</u> | <u>237.5</u> | <u>10.59</u> |
| <u>0855</u> | <u>SAMPLE</u> | | | | <u>FN WELL</u> | <u>10.40</u> |

DO measured: In-well In water bailed In water pumped [] Other: FN PAR. WEA. VIA YSI DOWN HOLE POST PURGE

WELL SAMPLING

Sampling Method: Submersible Pump [] Disposable Polyethylene Bailer Spigot [] Grab [] Other: _____
 Sample Type: Natural Duplicate [] Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|--|--|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No [] | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No [] | Metals: dissolved <input checked="" type="checkbox"/> or total [] | 250 ml poly | HNO ₃ |
| Yes [] No [] | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes [] No [] | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes [] No [] | | | |
| Yes [] No [] | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No []

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|--|-----------------------------|
| Water level | <u>Water Line</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No [] | Scrub: Yes [] No [] |
| pH | <u>YSI 5510</u> | <u>3/26/14</u> | Potable H ₂ O: Yes [] No [] | Steam: Yes [] No [] |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No [] | Nitric Acid: Yes [] No [] |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/25/14 @ 1540 Station No. MW-20
 Personnel: DW BQ Weather: Partly Cloudy
 Well Locked? Yes [] No [] Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC [] Other _____ Measuring Point: Top of PVC, north side [] Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 45.0' - Depth to Water 53.20 = 11.8 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump [] Disposable bailer Spigot [] Other _____

11.8 ft. water in well x 0.163 gal./ft. * = one casing volume 1.92 gals. x 3 = purge volume 5.77 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

| Time | Cumulative Gallons | OC | EVACUATION DATA | | | mg/L DO |
|-------------|--------------------|--------------|-----------------|-------------|---------------|-------------|
| | | Temp | pH | SC | ORP | |
| <u>1515</u> | <u>2.0</u> | <u>12.17</u> | <u>6.85</u> | <u>1319</u> | <u>-210.4</u> | <u>2.58</u> |
| <u>1526</u> | <u>4.0</u> | <u>10.17</u> | <u>6.92</u> | <u>1313</u> | <u>-152.3</u> | <u>4.73</u> |
| <u>1540</u> | <u>6.0</u> | <u>9.57</u> | <u>6.99</u> | <u>1352</u> | <u>-98.7</u> | <u>6.67</u> |

Down
hole

DO measured: In-well In water bailed In water pumped [] Other DOWN HOLE PAR. POST PURGE DOWN HOLE

WELL SAMPLING

Sampling Method: Submersible Pump [] Disposable Polyethylene Bailer Spigot [] Grab Other: _____

Sample Type: Natural Duplicate [] Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|--|--|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No [] | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No [] | Metals: dissolved <input checked="" type="checkbox"/> or total [] | 250 ml poly | HNO ₃ |
| Yes [] No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input checked="" type="checkbox"/> No [] | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No [] | CAT 10M Anion | 250 ml poly | none |
| Yes <input checked="" type="checkbox"/> No [] | Alkalinity | 250 ml poly | none |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No []

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|--|-----------------------------|
| Water level | <u>Water line</u> | <u>3/25/14</u> | Liquinox: Yes <input checked="" type="checkbox"/> No [] | Scrub: Yes [] No [] |
| pH | <u>YSI 5510</u> | <u>3/25/14</u> | Potable H ₂ O: Yes [] No [] | Steam: Yes [] No [] |
| SC | <u> </u> | <u> </u> | DI water: Yes <input checked="" type="checkbox"/> No [] | Nitric Acid: Yes [] No [] |
| ORP | <u> </u> | <u> </u> | <u>BAILED WATER</u> | |
| DO | <u> </u> | <u> </u> | | |

Comments: BAILED WELL DRY @ 4.5 gal. 1532

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/28/14 @ 9:20 Station No. MW-21
 Personnel: _____ Weather: MOSTLY CLOUDY
 Well Locked? Yes No Note Any Problems With Condition of Well: concrete has completely disintegrated
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 17.5 - Depth to Water 9.39 = 8.11 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
8.11 ft. water in well x 0.163 gal./ft. * = one casing volume 1.3 gals. x 3 = purge volume 4.0 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------------|--------------|-------------|-------------|--------------|--------------|
| <u>9:10</u> | <u>1.5</u> | <u>7.18</u> | <u>6.67</u> | <u>4109</u> | <u>246.7</u> | <u>10.74</u> |
| <u>9:15</u> | <u>3.0</u> | <u>10.88</u> | <u>6.93</u> | <u>448</u> | <u>245.7</u> | <u>10.13</u> |
| <u>9:20</u> | <u>4.5</u> | <u>7.15</u> | <u>7.01</u> | <u>441</u> | <u>244.9</u> | <u>10.18</u> |
| <u>9:20</u> | <u>SAMPLES COLLECTED</u> | | | | | |
| <u>9:25</u> | <u>Down Hole</u> | <u>7.52</u> | <u>7.21</u> | <u>429</u> | <u>241.8</u> | <u>9.95</u> |

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other _____
 Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|-----------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved <input checked="" type="checkbox"/> or total <input type="checkbox"/> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>CATION, Anion</u> | <u>2- 250 ml poly</u> | <u>none</u> |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>ALKALINITY</u> | <u>250 ml poly</u> | <u>none</u> |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|--|---|
| Water level | <u>Water line</u> | <u>3/28/14</u> | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>61 5510</u> | <u>3/28/14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | <u>1</u> | <u>1</u> | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | <u>1</u> | <u>1</u> | | |
| DO | <u>1</u> | <u>1</u> | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/27/14 @ 572 Station No. MW-22
 Personnel: DW BK Weather: CLOUDY
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 17.0 - Depth to Water 3.81 = 13.19 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
13.19 ft. water in well x ^{0.163}2.15 gal./ft* = one casing volume 2.15 gals. x 3 = purge volume 6.45 gals.
 *2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------|-------------------|--------------|------------|--------------|-------------|
| <u>1505</u> | <u>2.15</u> | <u>7.78</u> | <u>7.07</u> | <u>734</u> | <u>106.1</u> | <u>7.12</u> |
| <u>1508</u> | <u>4.30</u> | <u>7.94</u> | <u>7.06</u> | <u>731</u> | <u>116.4</u> | <u>6.61</u> |
| <u>1512</u> | <u>6.45</u> | <u>7.97</u> | <u>7.05</u> | <u>719</u> | <u>125.7</u> | <u>6.75</u> |
| <u>1512</u> | <u>COLLECTED</u> | <u>SAMPLE AND</u> | <u>DUP-1</u> | | | |
| <u>1525</u> | <u>DOWN HOLE</u> | <u>8.44</u> | <u>7.07</u> | <u>689</u> | <u>146.3</u> | <u>6.62</u> |

Down Hole

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailor Spigot Grab Other _____
 Sample Type: Natural Duplicate Other: DUP-1 TIME: 0800

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|-------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved <input checked="" type="checkbox"/> or total <input type="checkbox"/> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <u>CATIONIC Anion</u> | <u>2-250ml p.</u> | <u>none</u> |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <u>ALKALINITY</u> | <u>250ml p.</u> | <u>none</u> |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|--|---|
| Water level | <u>Water Line</u> | <u>-</u> | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI 556</u> | <u>3-27-14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | <u>" "</u> | <u>" "</u> | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | <u>" "</u> | <u>" "</u> | | |
| DO | <u>" "</u> | <u>" "</u> | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/27/14 @ 1610 Station No. MW-23
 Personnel: DW BP Weather: CLOUDY
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 10.0 - Depth to Water: 5.49 = 10.51 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
10.51 ft. water in well x 0.163 gal./ft. * = one casing volume 1.7 gals. x 3 = purge volume 5.1 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|-----------------------|-------------|-------------|------------|--------------|-------------|
| <u>1553</u> | <u>BEGAN BAILING</u> | | | | | |
| <u>1558</u> | <u>1.75</u> | <u>5.45</u> | <u>7.19</u> | <u>520</u> | <u>182.9</u> | <u>7.42</u> |
| <u>1603</u> | <u>3.5</u> | <u>5.45</u> | <u>7.14</u> | <u>526</u> | <u>185.6</u> | <u>6.98</u> |
| <u>1608</u> | <u>5.25</u> | <u>5.54</u> | <u>7.18</u> | <u>526</u> | <u>187.0</u> | <u>7.03</u> |
| <u>1610</u> | <u>COLLECT SAMPLE</u> | | | | | |
| | <u>DOWN HOLE</u> | <u>6.14</u> | <u>7.25</u> | <u>520</u> | <u>188.8</u> | <u>6.13</u> |

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other _____
 Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|---------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved <input checked="" type="checkbox"/> or total <input type="checkbox"/> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>CATIONIC ANIONS</u> | <u>2-250ml poly</u> | <u>none</u> |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | <u>250ml poly</u> | <u>none</u> |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|--|---|
| Water level | <u>Water line</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI 550</u> | <u>3/27/14</u> | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3-25-14 @ 1415 Station No. MW-24
 Personnel: DW, BA Weather: PARTLY CLOUDY 40G
 Well Locked? Yes No Note Any Problems With Condition of Well: CONCRETE CRACKING
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 80.50' - Depth to Water 74.50' = 6.0 ft. water in well

WELL EVACUATION 2 GAL/MIN RATE

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
1324
6.0 ft. water in well x 0.163 gal./ft.* = one casing volume 0.978 gals. x 3 = purge volume 2.93 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): 1 GAL/MIN

| Time | Cumulative Gallons | Temp °C | EVACUATION DATA pH | NS SC | ORP | DO 1338 13.50 mg/L 120.6% |
|-------------|--------------------|---------------|-----------------------|-------------|--------------|---------------------------------|
| <u>1405</u> | <u>.25</u> | <u>10.04°</u> | <u>7.09</u> | <u>0110</u> | <u>196.5</u> | <u>11.24</u> |
| <u>1414</u> | <u>1.25</u> | <u>10.06</u> | <u>7.13</u> | <u>024</u> | <u>198.0</u> | <u>11.59</u> |
| | | | | | | |
| | | | | | | |

DO measured: In-well In water bailed In water pumped Other: YSI PAR. MEAS. VIA FLOW THROUGH CELL

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailor Spigot Grab Other _____
 Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|--|---------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>Carbonate Anions</u> | <u>2-250ml poly</u> | <u>none</u> |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>Alkalinity</u> | <u>250ml</u> | <u>none</u> |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|------------------|------------------|--|---|
| Water level | <u>Waterline</u> | <u>3/25/14</u> | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI 5576</u> | | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | <u>1</u> | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/27/14 @ 1415 Station No. MMW-70 260
 Personnel: DW BQ Weather: cloudy
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 38.0' - Depth to Water 14.41 = 23.59 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____

23.59 ft. water in well x 0.103 gal./ft. * = one casing volume 15.4 gals. x 3 = purge volume 46.2 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

| | Time | Cumulative Gallons | °C Temp | EVACUATION DATA | | | Wg/L DO |
|--------------|------|--|---|--------------------------------|-----|-------|------------|
| | | | | pH | SC | ORP | |
| START PUMP | 1342 | | | | | | |
| | 1353 | 15.5 | 9.40 | 7.04 | 690 | 135.4 | 8.82 |
| 1400 | 1414 | 31.0 | 9.40 | 6.99 | 698 | 96.8 | 8.19 |
| | 1425 | 36.5 | | | | | |
| | 1415 | 40.5 | | | | | |
| DO measured: | 1425 | Down Hole <input checked="" type="checkbox"/> | 9.27 | 7.08 | 682 | 80.5 | 9.80 |
| | | In well <input checked="" type="checkbox"/> In water Bailed <input type="checkbox"/> | In water pumped <input checked="" type="checkbox"/> | Other <input type="checkbox"/> | | | |

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other _____

Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved <input checked="" type="checkbox"/> or total <input type="checkbox"/> | 250 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | CATION ANION | 2 - 250ml p. | none |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | ALKALINITY | 250ml p. | none |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|------------------|------------------|--|---|
| Water level | <u>Waterline</u> | <u>3/27/14</u> | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI 550</u> | | Potable H ₂ O: Yes <input type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: PUMPED WELL DRY AT 1410. 40.5 gal PURGE. ALLOW WELL TO RECHARGE AND SAMPLE 1415

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 3/28/14 @ 10:05 Station No. MANHATTAN SECP
 Personnel: DW Weather: MOSTLY CLOUDY
 Well Locked? Yes [] No [] Note Any Problems With Condition of Well: yes
 Casing Dia. & Type: 2-inch PVC [] 4-inch PVC [] Other SPRING Measuring Point: Top of PVC, north side [] Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): _____ - Depth to Water FLOWING SPRING ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump [] Disposable bailer [] Spigot [] Other _____
 _____ ft. water in well x _____ gal./ft* = one casing volume _____ gals. x 3 = purge volume _____ gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|--------------|--------------------|-------------|-------------|------------|--------------|-------------|
| | <u>FLOWING</u> | | | | | |
| <u>10:13</u> | <u>-</u> | <u>8.86</u> | <u>6.73</u> | <u>997</u> | <u>215.1</u> | <u>9.12</u> |
| <u>10:15</u> | <u>SAMPLE TIME</u> | | | | | |

DO measured: In-well [] In water bailed [] In water pumped [] Other IN FLOWING STREAM

WELL SAMPLING

Sampling Method: Submersible Pump [] Disposable Polyethylene Bailer [] Spigot [] Grab Other _____
 Sample Type: Natural Duplicate [] Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|--|------------------------------------|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No [] | VOCs | 3 - 40 ml vials | HCl |
| Yes [] No <input checked="" type="checkbox"/> | Metals: dissolved [] or total [] | 250 ml poly | HNO ₃ |
| Yes [] No <input checked="" type="checkbox"/> | Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes [] No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | None |
| Yes [] No <input checked="" type="checkbox"/> | | | |
| Yes [] No <input checked="" type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes [x] No []

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|------------------|------------------|--|-----------------------------|
| Water level | <u>Waterline</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No [] | Scrub: Yes [] No [] |
| pH | <u>YSI 455b</u> | <u>3/28/14</u> | Potable H ₂ O: Yes <input checked="" type="checkbox"/> No [] | Steam: Yes [] No [] |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No [] | Nitric Acid: Yes [] No [] |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 5/1/14 @ 1600 Station No. MW-17
 Personnel: MFP Weather: Breeze, dry, 60°F
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 85.0 - Depth to Water 75.62 = 9.38 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
 _____ ft. water in well x _____ gal./ft.* = one casing volume 1.53 gals. x 3 = purge volume 4.6 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|------------|--------------------|--------------|-------------|------------|--------------|-------------|
| | <u>1.5</u> | <u>10.70</u> | <u>6.52</u> | <u>856</u> | <u>136</u> | <u>2.66</u> |
| | <u>3.1</u> | <u>10.09</u> | <u>6.62</u> | <u>867</u> | <u>-67.3</u> | <u>2.86</u> |
| <u>600</u> | <u>5.0</u> | <u>10.72</u> | <u>6.59</u> | <u>878</u> | <u>-35</u> | <u>2.56</u> |
| | | | | | | |
| | | | | | | |

Mini Flow Through in cup

DO measured: In-well In water bailed In water pumped Other _____

Retrieval & measurement w/ minimal aeration

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other _____
 Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> full list <input type="checkbox"/> or reduced list <input type="checkbox"/> | 500 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | COD, Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Cyanide | 500 ml poly | NaOH |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| | | | |
|--------------|-------------------|-------------------------|---|
| Meter | Model No. | Calibration Date | Decontamination |
| Water level | <u>Water Line</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI-556</u> | <u>5/1/14</u> | Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| SC | | | Potable H ₂ O: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| DO | | | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 5/2/14 @ 1230 Station No. MW-18
 Personnel: MFP Weather: Wind, Dry, ~60°F
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 59.0' - Depth to Water 47.22 = 11.78 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
 _____ ft. water in well x _____ gal./ft. * = one casing volume 1.9 gals. x 3 = purge volume 5.8 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|------|--------------------|-------|------|------|-------|------|
| | 1.9 | 11.75 | 6.67 | 1549 | 132.0 | 3.58 |
| | 4.0 | 11.40 | 6.66 | 1570 | 94.7 | 2.02 |
| 1230 | 6.0 | 11.46 | 6.65 | 1580 | 69.8 | 1.90 |
| | 7.0 | 11.05 | 6.63 | 1527 | 82.2 | 1.15 |

Down Hole

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____
 Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved <input checked="" type="checkbox"/> or total <input type="checkbox"/> full list <input type="checkbox"/> or reduced list <input checked="" type="checkbox"/> | 500 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | COD, Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Cyanide | 500 ml poly | NaOH |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Tritium | 1 L Glass | None |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|------------------|------------------|---|--|
| Water level | <u>WaterLine</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI 556</u> | <u>5/2/14</u> | Potable H ₂ O: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 5/1/14 @ 1350 Station No. MW-19
 Personnel: MFP Weather: Warm, Dry
 Well Locked? Yes No Note Any Problems With Condition of Well: OK
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 28.0 - Depth to Water 21.36 = 6.64 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
 _____ ft. water in well x _____ gal./ft.* = one casing volume 1.1 gals. x 3 = purge volume 3.3 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------|-------------|-------------|------------|------------|--------------|
| | <u>1.1</u> | <u>9.94</u> | <u>6.88</u> | <u>734</u> | <u>-</u> | <u>-</u> |
| | <u>2.2</u> | <u>9.64</u> | <u>6.87</u> | <u>735</u> | <u>-</u> | <u>-</u> |
| <u>1350</u> | <u>3.3</u> | <u>9.65</u> | <u>6.92</u> | <u>738</u> | <u>272</u> | <u>11.61</u> |
| <u>1350</u> | <u>3.8</u> | <u>9.39</u> | <u>6.95</u> | <u>736</u> | <u>271</u> | <u>11.18</u> |

Down Hole

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____
 Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> full list <input type="checkbox"/> or reduced list <input type="checkbox"/> | 500 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | COD, Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Cyanide | 500 ml poly | NaOH |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|---|--|
| Water level | <u>Water Line</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI-556</u> | <u>5/1/14</u> | Potable H ₂ O: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 5/2/14 @ 1130 Station No. MW-20
 Personnel: MFP Weather: Breeze, Dry, 55°F
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 65.0 - Depth to Water 52.98 = 12.02 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
 _____ ft. water in well x _____ gal./ft. * = one casing volume 2 gals. x 3 = purge volume 6 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|------|--------------------|-------|------|------|-------|------|
| | 2 | 11.10 | 6.74 | 1358 | 265 | 6.53 |
| | 4 | 9.93 | 7.01 | 1355 | 208 | 5.50 |
| 1130 | 6.0 | 10.08 | 7.11 | 1354 | 142 | 5.77 |
| 1130 | 6.3 | 9.44 | 7.08 | 1348 | -12.8 | - |
| 1135 | ↓ | 9.39 | 7.10 | 1349 | -38.0 | 3.65 |

Down hole

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailor Spigot Grab Other _____
 Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> full list <input type="checkbox"/> or reduced list <input type="checkbox"/> | 500 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | COD, Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Cyanide | 500 ml poly | NaOH |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|---|--|
| Water level | <u>Water Line</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI-556</u> | <u>5/2/14</u> | Potable H ₂ O: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: Duplicate collected & labelled 'DUP' with a sample time of 1100

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 5/1/14 @ 1030 Station No. MW-21
 Personnel: MFP Weather: Clear calm, 60°F
 Well Locked? Yes No Note Any Problems With Condition of Well: Water Line repair ongoing, cap needs concrete
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 17.5 - Depth to Water 7.63 = 9.87 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____

_____ ft. water in well x _____ gal./ft. * = one casing volume 1.6 gals. x 3 = purge volume 4.8 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|------|--------------------|------|------|-----|-------|---|
| | 1.6 | 7.89 | 7.13 | 462 | 259.3 | 9.6 |
| | 3.2 | 6.57 | 7.10 | 455 | 262.5 | 9.76 |
| 1030 | 4.8 | 6.42 | 7.12 | 458 | 260.4 | 10.33 |
| | 5.5 | 5.98 | 7.08 | 458 | 262.1 | 9.16 Down hole |

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____

Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> full list <input type="checkbox"/> or reduced list <input type="checkbox"/> | 500 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | COD, Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Cyanide | 500 ml poly | NaOH |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination |
|-------------|-------------------|------------------|---|
| Water level | <u>Water Line</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI-556</u> | <u>5/1/14</u> | Potable H ₂ O: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | |
| DO | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 5/1/14 @ 1300 Station No. MW-22
 Personnel: MFP Weather: Calm, Dry
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clay silt)
 Well Depth (ft. below measuring point): 17.0' - Depth to Water 3.11 = 13.89 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____

_____ ft. water in well x _____ gal./ft.* = one casing volume 2.27 gals. x 3 = purge volume 6.8 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------|-------------|-------------|------------|------------|------------------------------|
| | <u>2.3</u> | <u>9.25</u> | <u>6.66</u> | <u>730</u> | <u>254</u> | <u>7.83</u> |
| | <u>4.6</u> | <u>8.81</u> | <u>6.70</u> | <u>718</u> | <u>257</u> | <u>8.05</u> |
| | <u>6.8</u> | <u>8.74</u> | <u>6.75</u> | <u>715</u> | <u>256</u> | <u>7.80</u> |
| <u>1300</u> | <u>7.0</u> | <u>8.31</u> | <u>6.75</u> | <u>716</u> | <u>256</u> | <u>7.03</u> <i>Down hole</i> |

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____

Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> full list <input type="checkbox"/> or reduced list <input type="checkbox"/> | 500 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | COD, Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Cyanide | 500 ml poly | NaOH |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|---|--|
| Water level | <u>Water Line</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI-556</u> | <u>5/1/14</u> | Potable H ₂ O: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 5/1/14 @ 1200 Station No. MW-23
 Personnel: MFP Weather: Warm, Dry
 Well Locked? Yes No Note Any Problems With Condition of Well: Good, Grout is OK around cover
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 16.0 - Depth to Water 4.62 = 11.38 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____

_____ ft. water in well x _____ gal./ft* = one casing volume 1.8 gals. x 3 = purge volume 5.5 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------|-------------|-------------|------------|------------|-------------|
| | <u>1.8</u> | <u>7.36</u> | <u>6.76</u> | <u>512</u> | <u>220</u> | <u>8.10</u> |
| | <u>3.6</u> | <u>7.17</u> | <u>6.79</u> | <u>515</u> | <u>225</u> | <u>9.00</u> |
| <u>1200</u> | <u>5.5</u> | <u>7.24</u> | <u>6.83</u> | <u>520</u> | <u>223</u> | <u>8.93</u> |
| | <u>6.0</u> | <u>6.82</u> | <u>6.67</u> | <u>519</u> | <u>229</u> | <u>8.75</u> |
| <u>1220</u> | | <u>6.71</u> | <u>6.89</u> | <u>518</u> | <u>231</u> | <u>7.51</u> |

DO measured: In-well In water bailed In water pumped Other _____

Down hole

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____

Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> full list <input type="checkbox"/> or reduced list <input type="checkbox"/> | 500 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | COD, Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Cyanide | 500 ml poly | NaOH |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|---|--|
| Water level | <u>Water Line</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI-556</u> | <u>5/1/14</u> | Potable H ₂ O: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 5/2/14 @ 1400 Station No. MW-24
 Personnel: MFP Weather: Breeze, Dry, 60°F
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVG 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 80.5' - Depth to Water 74.33 = 6.17 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
 _____ ft. water in well x _____ gal./ft. * = one casing volume 1.0 gals. x 3 = purge volume 3.0 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------|--------------|-------------|------------|--------------|--------------|
| _____ | <u>1</u> | <u>11.04</u> | <u>7.13</u> | <u>635</u> | <u>78.8</u> | <u>-</u> |
| _____ | <u>2</u> | <u>10.09</u> | <u>7.34</u> | <u>628</u> | <u>124.3</u> | <u>12.0</u> |
| <u>1400</u> | <u>3.0</u> | <u>10.12</u> | <u>7.44</u> | <u>627</u> | <u>143.6</u> | <u>11.80</u> |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other _____
 Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> full list <input type="checkbox"/> or reduced list <input type="checkbox"/> | 500 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | COD, Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Cyanide | 500 ml poly | NaOH |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| | | | | |
|--------------|-------------------|-------------------------|--|---|
| <u>Meter</u> | <u>Model No.</u> | <u>Calibration Date</u> | | <u>Decontamination</u> |
| Water level | <u>Water Line</u> | | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI-556</u> | <u>5/2/14</u> | | Potable H ₂ O: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 5/2/14 @ 1530 Station No. MW-25
 Personnel: MFP Weather: Breeze, Dry
 Well Locked? Yes No Note Any Problems With Condition of Well: _____
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 63.0' - Depth to Water 50.22 = 12.78 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____

_____ ft. water in well x _____ gal./ft. * = one casing volume 2.1 gals. x 3 = purge volume 6.3 gals.

* 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²

Pumping rate (gpm): _____

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO |
|-------------|--------------------|--------------|-------------|------------|--------------|-------------|
| | <u>2.1</u> | <u>10.32</u> | <u>7.10</u> | <u>600</u> | <u>162</u> | <u>-</u> |
| | <u>4.2</u> | <u>9.85</u> | <u>7.13</u> | <u>566</u> | <u>75</u> | <u>9.75</u> |
| <u>1530</u> | <u>6.3</u> | <u>9.75</u> | <u>7.23</u> | <u>564</u> | <u>38.1</u> | <u>9.65</u> |
| | <u>7.0</u> | <u>9.00</u> | <u>7.27</u> | <u>541</u> | <u>-19.5</u> | <u>8.95</u> |

Down Hole

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other _____

Sample Type: Natural Duplicate Other _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|--|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Metals: dissolved <input checked="" type="checkbox"/> or total <input type="checkbox"/> full list <input type="checkbox"/> or reduced list <input type="checkbox"/> | 500 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | COD, Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Cyanide | 500 ml poly | NaOH |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana

Chain-of-Custody: Yes No

Meter

Model No. Water Line
YSI-556
 Calibration Date 5/2/14

Decontamination

Liquinox: Yes No Scrub: Yes No
 Potable H₂O: Yes No Steam: Yes No
 DI water: Yes No Nitric Acid: Yes No

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Bozeman Landfill Date: 5/1/14 @ 1450 Station No. MW-26
 Personnel: MFP Weather: Warm, Dry
 Well Locked? Yes No Note Any Problems With Condition of Well: None
 Casing Dia. & Type: 2-inch PVC 4-inch PVC Other _____ Measuring Point: Top of PVC, north side Other _____
 Aquifer: Tertiary sediments (sand, gravel, and clayey silt)
 Well Depth (ft. below measuring point): 38.0' - Depth to Water 14.08 = 23.92 ft. water in well

WELL EVACUATION

Evacuation Method: Submersible Pump Disposable bailer Spigot Other _____
 _____ ft. water in well x _____ gal./ft. * = one casing volume 3.9 gals. x 3 = purge volume 11.7 gals.
 * 2" well = 0.163 gal./ft. 4" well = 0.653 gal./ft. 6" well = 1.469 gal./ft. 8" well = 2.611 gal./ft. Well C feet in diameter = 5.875 x C²
 Pumping rate (gpm): Pump Flow = 1 gal / 30 sec Flow

EVACUATION DATA

| Time | Cumulative Gallons | Temp | pH | SC | ORP | DO | Flow |
|---------------|----------------------|-------------|-------------|------------|--------------|-------------|-------------------|
| <u>1435</u> | <u>Start Pumping</u> | | | | | | <u>Through</u> |
| <u>240 PM</u> | <u>5</u> | <u>9.98</u> | <u>6.80</u> | <u>698</u> | <u>277</u> | <u>8.44</u> | <u>Meter shut</u> |
| <u>245 PM</u> | <u>9.5</u> | <u>9.57</u> | <u>6.75</u> | <u>756</u> | <u>285</u> | <u>4.50</u> | <u>down</u> |
| <u>1450</u> | <u>30</u> | <u>9.54</u> | <u>6.85</u> | <u>754</u> | <u>281.4</u> | <u>3.36</u> | <u>-Flow</u> |
| | | | | | | | <u>Through</u> |
| | | | | | | | <u>Cell</u> |

DO measured: In-well In water bailed In water pumped Other _____

WELL SAMPLING

Sampling Method: Submersible Pump Disposable Polyethylene Bailer Spigot Grab Other: _____
 Sample Type: Natural Duplicate Other: _____

| Sample Collected | Parameters | Sample Container | Preservative |
|---|---|------------------|--------------------------------|
| Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | VOCs | 3 - 40 ml vials | HCl |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Metals: dissolved <input type="checkbox"/> or total <input type="checkbox"/> full list <input type="checkbox"/> or reduced list <input type="checkbox"/> | 500 ml poly | HNO ₃ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | COD, Nitrate as N | 250 ml poly | H ₂ SO ₄ |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | pH, SC, sulfate, chloride | 250 ml poly | |
| Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Cyanide | 500 ml poly | NaOH |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | |

Laboratory: Pace Analytical Services, Inc., Billings, Montana Chain-of-Custody: Yes No

| Meter | Model No. | Calibration Date | Decontamination | |
|-------------|-------------------|------------------|---|--|
| Water level | <u>Water Line</u> | | Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| pH | <u>YSI-556</u> | <u>5/1/14</u> | Potable H ₂ O: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| SC | | | DI water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/> |
| ORP | | | | |
| DO | | | | |

Comments: Pump and Tubing used on MW-26 before (in Mar 2014)
Decont'd w/ hot H₂O/liquinox soln. and rinse with
hot water - City of Boz water.

APPENDIX C

May 07, 2014

Mark Pearson
Tetra Tech, Inc. - MT
851 Bridger Dr. Suite 6
Bozeman, MT 59715

RE: Project: 114-710303A.700 Bozeman LF
Pace Project No.: 10261823

Dear Mark Pearson:

Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Report revised to update Alkalinity values after a data review request was performed per client request 05/07/14.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Samantha Rupe
samantha.rupe@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #40770

Alabama Certification #40770

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #: Pace

Georgia Certification #: 959

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nebraska Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

Wisconsin Certification #: 999407970

West Virginia Certification #: 382

West Virginia TO-15 Approval

West Virginia DHHR #:9952C

Montana Certification IDs

150 N. 9th Street, Billings, MT 59101

Colorado Asbestos #:17119

EPA Region 8 Certification #: 8TMS-L

Idaho Certification #: MT00012

Minnesota Dept of Health Certification #: 030-999-442

Montana Certification #: MT CERT0040

NVLAP Certification #: 101292-0

Washington Department of Ecology #: C993

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: ANTE

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------------|--------|----------------|----------------|
| 10261823001 | LF-2 | Water | 03/27/14 12:55 | 03/29/14 12:30 |
| 10261823002 | LF-3 | Water | 03/26/14 10:00 | 03/29/14 12:30 |
| 10261823003 | MW-4 | Water | 03/26/14 15:25 | 03/29/14 12:30 |
| 10261823004 | MW-6 | Water | 03/26/14 12:25 | 03/29/14 12:30 |
| 10261823005 | MW-6B | Water | 03/26/14 12:10 | 03/29/14 12:30 |
| 10261823006 | MW-8A | Water | 03/27/14 09:10 | 03/29/14 12:30 |
| 10261823007 | MW-8C | Water | 03/27/14 09:20 | 03/29/14 12:30 |
| 10261823008 | MW-10 | Water | 03/27/14 12:00 | 03/29/14 12:30 |
| 10261823009 | MW-12 | Water | 03/27/14 10:25 | 03/29/14 12:30 |
| 10261823010 | MW-13 | Water | 03/27/14 15:12 | 03/29/14 12:30 |
| 10261823011 | MW-15 | Water | 03/27/14 17:45 | 03/29/14 12:30 |
| 10261823012 | MW-16 | Water | 03/27/14 16:30 | 03/29/14 12:30 |
| 10261823013 | MW-17 | Water | 03/25/14 16:48 | 03/29/14 12:30 |
| 10261823014 | MW-19 | Water | 03/26/14 08:55 | 03/29/14 12:30 |
| 10261823015 | MW-20 | Water | 03/25/14 15:40 | 03/29/14 12:30 |
| 10261823016 | MW-21 | Water | 03/28/14 09:20 | 03/29/14 12:30 |
| 10261823017 | MW-22 | Water | 03/27/14 15:12 | 03/29/14 12:30 |
| 10261823018 | MW-23 | Water | 03/27/14 16:10 | 03/29/14 12:30 |
| 10261823019 | MW-24 | Water | 03/25/14 14:15 | 03/29/14 12:30 |
| 10261823020 | MW-26 | Water | 03/27/14 14:15 | 03/29/14 12:30 |
| 10261823021 | MCILHATTEN SEEP | Water | 03/28/14 10:15 | 03/29/14 12:30 |
| 10261823022 | TRIP BLANK | Water | | 03/29/14 12:30 |
| 10261823023 | DUP-1 | Water | 03/27/14 08:00 | 03/29/14 12:30 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|-----------|----------|-------------------|------------|
| 10261823001 | LF-2 | EPA 8260B | LPM | 61 | PASI-M |
| 10261823002 | LF-3 | EPA 8260B | LPM | 61 | PASI-M |
| 10261823003 | MW-4 | EPA 6020 | TT3 | 4 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | SM 2320B | PH1 | 3 | PASI-M |
| 10261823004 | MW-6 | EPA 6020 | TT3 | 4 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | SM 2320B | PH1 | 3 | PASI-M |
| 10261823005 | MW-6B | EPA 6020 | TT3 | 4 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | SM 2320B | PH1 | 3 | PASI-M |
| 10261823006 | MW-8A | EPA 6020 | TT3 | 4 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | SM 2320B | PH1 | 3 | PASI-M |
| 10261823007 | MW-8C | EPA 6020 | TT3 | 4 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | SM 2320B | PH1 | 3 | PASI-M |
| 10261823008 | MW-10 | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| | | SM 2320B | PH1 | 3 | PASI-M |
| 10261823009 | MW-12 | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| | | SM 2320B | PH1 | 3 | PASI-M |
| 10261823010 | MW-13 | EPA 8260B | LPM | 61 | PASI-M |
| 10261823011 | MW-15 | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| | | SM 2320B | PH1 | 3 | PASI-M |
| 10261823012 | MW-16 | EPA 6020 | TT3 | 4 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|-----------|----------|-------------------|------------|
| 10261823013 | MW-17 | SM 2320B | PH1 | 3 | PASI-M |
| | | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | EB2 | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| 10261823014 | MW-19 | SM 2320B | PH1 | 3 | PASI-M |
| | | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| 10261823015 | MW-20 | SM 2320B | PH1 | 3 | PASI-M |
| | | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | EB2 | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| 10261823016 | MW-21 | SM 2320B | PH1 | 3 | PASI-M |
| | | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| 10261823017 | MW-22 | SM 2320B | PH1 | 3 | PASI-M |
| | | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| 10261823018 | MW-23 | SM 2320B | PH1 | 3 | PASI-M |
| | | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| 10261823019 | MW-24 | SM 2320B | PH1 | 3 | PASI-M |
| | | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | EB2 | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| 10261823020 | MW-26 | SM 2320B | PH1 | 3 | PASI-M |
| | | EPA 6020 | TT3 | 6 | PASI-M |

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SAMPLE ANALYTE COUNT

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------------|-----------|----------|-------------------|------------|
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| | | SM 2320B | PH1 | 3 | PASI-M |
| 10261823021 | MCILHATTEN SEEP | EPA 8260B | LPM | 61 | PASI-M |
| 10261823022 | TRIP BLANK | EPA 8260B | LPM | 61 | PASI-M |
| 10261823023 | DUP-1 | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| | | SM 2320B | PH1 | 3 | PASI-M |

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

Client: Tetra Tech, Inc. - MT

Date: May 07, 2014

General Information:

13 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Method: EPA 6020

Description: 6020 MET ICPMS, Lab Filtered

Client: Tetra Tech, Inc. - MT

Date: May 07, 2014

General Information:

5 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/45056

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10261823003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1651829)
 - Calcium, Dissolved
 - Magnesium, Dissolved
 - Sodium, Dissolved
- MSD (Lab ID: 1651830)
 - Calcium, Dissolved
 - Magnesium, Dissolved
 - Sodium, Dissolved

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Method: EPA 8260B

Description: 8260B MSV Low Level

Client: Tetra Tech, Inc. - MT

Date: May 07, 2014

General Information:

19 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: MSV/26732

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1651610)
 - Bromomethane
 - Iodomethane
- DUP (Lab ID: 1653112)
 - Bromomethane
 - Iodomethane
- DUP-1 (Lab ID: 10261823023)
 - Bromomethane
 - Iodomethane
- LCS (Lab ID: 1651611)
 - Bromomethane
 - Iodomethane
- LF-2 (Lab ID: 10261823001)
 - Bromomethane
 - Iodomethane
- LF-3 (Lab ID: 10261823002)
 - Bromomethane
 - Iodomethane
- MCILHATTEN SEEP (Lab ID: 10261823021)
 - Bromomethane
 - Iodomethane
- MS (Lab ID: 1653111)
 - Bromomethane
 - Iodomethane
- MW-10 (Lab ID: 10261823008)
 - Bromomethane
 - Iodomethane
- MW-12 (Lab ID: 10261823009)
 - Bromomethane
 - Iodomethane
- MW-13 (Lab ID: 10261823010)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Method: EPA 8260B

Description: 8260B MSV Low Level

Client: Tetra Tech, Inc. - MT

Date: May 07, 2014

QC Batch: MSV/26732

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- Bromomethane
- Iodomethane
- MW-15 (Lab ID: 10261823011)
 - Bromomethane
 - Iodomethane
- MW-19 (Lab ID: 10261823014)
 - Bromomethane
 - Iodomethane
- MW-21 (Lab ID: 10261823016)
 - Bromomethane
 - Iodomethane
- MW-22 (Lab ID: 10261823017)
 - Bromomethane
 - Iodomethane
- MW-23 (Lab ID: 10261823018)
 - Bromomethane
 - Iodomethane
- MW-26 (Lab ID: 10261823020)
 - Bromomethane
 - Iodomethane
- MW-4 (Lab ID: 10261823003)
 - Bromomethane
 - Iodomethane
- MW-8A (Lab ID: 10261823006)
 - Bromomethane
 - Iodomethane
- TRIP BLANK (Lab ID: 10261823022)
 - Bromomethane
 - Iodomethane

QC Batch: MSV/26752

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 1653041)
 - 2-Butanone (MEK)
 - 2-Hexanone
 - trans-1,4-Dichloro-2-butene
- LCSD (Lab ID: 1653248)
 - 2-Butanone (MEK)
 - 2-Hexanone
 - trans-1,4-Dichloro-2-butene

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1653040)
 - Bromomethane
 - Iodomethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Method: EPA 8260B

Description: 8260B MSV Low Level

Client: Tetra Tech, Inc. - MT

Date: May 07, 2014

QC Batch: MSV/26752

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- LCS (Lab ID: 1653041)
 - Bromomethane
 - Iodomethane
- LCSD (Lab ID: 1653248)
 - Bromomethane
 - Iodomethane
- MW-17 (Lab ID: 10261823013)
 - Bromomethane
 - Iodomethane
- MW-20 (Lab ID: 10261823015)
 - Bromomethane
 - Iodomethane
- MW-24 (Lab ID: 10261823019)
 - Bromomethane
 - Iodomethane

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/26752

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1653041)
 - 2-Butanone (MEK)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
 - Acrylonitrile
 - trans-1,4-Dichloro-2-butene

R1: RPD value was outside control limits.

- LCSD (Lab ID: 1653248)
 - Bromomethane

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Method: EPA 8260B

Description: 8260B MSV Low Level

Client: Tetra Tech, Inc. - MT

Date: May 07, 2014

QC Batch: MSV/26752

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/26732

1M: Post-analysis pH measurement indicates insufficient VOA sample preservation. Therefore, analysis was conducted outside the recognized method holding time.

- DUP-1 (Lab ID: 10261823023)
 - 1,2-Dichloroethane-d4 (S)
- MW-19 (Lab ID: 10261823014)
 - 1,2-Dichloroethane-d4 (S)
- MW-22 (Lab ID: 10261823017)
 - 1,2-Dichloroethane-d4 (S)
- MW-23 (Lab ID: 10261823018)
 - 1,2-Dichloroethane-d4 (S)

C0: Result confirmed by second analysis.

- TRIP BLANK (Lab ID: 10261823022)
 - Methylene Chloride

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PROJECT NARRATIVE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Method: EPA 300.0

Description: 300.0 IC Anions

Client: Tetra Tech, Inc. - MT

Date: May 07, 2014

General Information:

18 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MT/15294

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10261654001,10261823013

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1651560)
- Chloride

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Method: EPA 906.0

Description: 906.0 Tritium

Client: Tetra Tech, Inc. - MT

Date: May 07, 2014

General Information:

12 samples were analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Method: SM 2320B

Description: 2320B Alkalinity

Client: Tetra Tech, Inc. - MT

Date: May 07, 2014

General Information:

18 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.

- DUP-1 (Lab ID: 10261823023)
- MW-22 (Lab ID: 10261823017)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WET/34908

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10261823003,10261909004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1650459)
 - Alkalinity, Total as CaCO₃
- MSD (Lab ID: 1650460)
 - Alkalinity, Total as CaCO₃

Additional Comments:

Analyte Comments:

QC Batch: WET/35408

2M: Sample had a high amount of sediment. Reported result is the analysis of the supernatant after the sediment was allowed to settle out. Results may be biased.

- DUP-1 (Lab ID: 10261823023)
 - Alkalinity, Total as CaCO₃
- MW-22 (Lab ID: 10261823017)
 - Alkalinity, Total as CaCO₃

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: LF-2 Lab ID: 10261823001 Collected: 03/27/14 12:55 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 02:08 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:08 | 107-13-1 | |
| Benzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:08 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 02:08 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 02:08 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:08 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:08 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:08 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 02:08 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 02:08 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:08 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 02:08 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 02:08 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 02:08 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:08 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:08 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 02:08 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 02:08 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:08 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 02:08 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:08 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:08 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 02:08 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:08 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 02:08 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:08 | 75-35-4 | |
| cis-1,2-Dichloroethene | 0.37J | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 02:08 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 02:08 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 02:08 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 02:08 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:08 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 02:08 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 02:08 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:08 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:08 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:08 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 02:08 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:08 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:08 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:08 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 02:08 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:08 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:08 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 02:08 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 02:08 | 79-34-5 | |
| Tetrachloroethene | 0.89 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:08 | 127-18-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: LF-2 **Lab ID: 10261823001** Collected: 03/27/14 12:55 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 02:08 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 02:08 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:08 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:08 | 79-00-5 | |
| Trichloroethene | 0.16J | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 02:08 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 02:08 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 02:08 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 02:08 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:08 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:08 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 02:08 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 02:08 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 101 | % | 75-125 | | 1 | | 04/09/14 02:08 | 17060-07-0 | |
| Toluene-d8 (S) | 97 | % | 75-125 | | 1 | | 04/09/14 02:08 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | % | 75-125 | | 1 | | 04/09/14 02:08 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: LF-3 Lab ID: 10261823002 Collected: 03/26/14 10:00 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 00:54 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 00:54 | 107-13-1 | |
| Benzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 00:54 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 00:54 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 00:54 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 00:54 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 00:54 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 00:54 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 00:54 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 00:54 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 00:54 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 00:54 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 00:54 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 00:54 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 00:54 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 00:54 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 00:54 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 00:54 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 00:54 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 00:54 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 00:54 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 00:54 | 110-57-6 | |
| Dichlorodifluoromethane | 1.2 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 00:54 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 00:54 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 00:54 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 00:54 | 75-35-4 | |
| cis-1,2-Dichloroethene | 2.0 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 00:54 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 00:54 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 00:54 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 00:54 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 00:54 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 00:54 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 00:54 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 00:54 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 00:54 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 00:54 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 00:54 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 00:54 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 00:54 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 00:54 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 00:54 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 00:54 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 00:54 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 00:54 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 00:54 | 79-34-5 | |
| Tetrachloroethene | 2.4 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 00:54 | 127-18-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: LF-3 **Lab ID: 10261823002** Collected: 03/26/14 10:00 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 00:54 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 00:54 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 00:54 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 00:54 | 79-00-5 | |
| Trichloroethene | 0.61 | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 00:54 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 00:54 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 00:54 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 00:54 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 00:54 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 00:54 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 00:54 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 00:54 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 75-125 | | 1 | | 04/09/14 00:54 | 17060-07-0 | |
| Toluene-d8 (S) | 97 | % | 75-125 | | 1 | | 04/09/14 00:54 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 105 | % | 75-125 | | 1 | | 04/09/14 00:54 | 460-00-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-4 **Lab ID: 10261823003** Collected: 03/26/14 15:25 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------------------|---------|---|-------|--------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 142 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:12 | 04/10/14 09:18 | 7440-70-2 | M1 |
| Magnesium, Dissolved | 46.2 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:12 | 04/10/14 09:18 | 7439-95-4 | M1 |
| Potassium, Dissolved | 2.4 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:12 | 04/09/14 14:36 | 7440-09-7 | |
| Sodium, Dissolved | 20.8 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:12 | 04/09/14 14:36 | 7440-23-5 | M1 |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 01:19 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 01:19 | 107-13-1 | |
| Benzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 01:19 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 01:19 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 01:19 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 01:19 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 01:19 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 01:19 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 01:19 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 01:19 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 01:19 | 108-90-7 | |
| Chloroethane | 0.76J | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 01:19 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 01:19 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 01:19 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 01:19 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 01:19 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 01:19 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 01:19 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:19 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 01:19 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:19 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 01:19 | 110-57-6 | |
| Dichlorodifluoromethane | 1.3 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 01:19 | 75-71-8 | |
| 1,1-Dichloroethane | 0.45J | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:19 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 01:19 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 01:19 | 75-35-4 | |
| cis-1,2-Dichloroethene | 0.53 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 01:19 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 01:19 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 01:19 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 01:19 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:19 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 01:19 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 01:19 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 01:19 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 01:19 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 01:19 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 01:19 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 01:19 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 01:19 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:19 | 1634-04-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-4 **Lab ID: 10261823003** Collected: 03/26/14 15:25 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 01:19 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:19 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 01:19 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 01:19 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 01:19 | 79-34-5 | |
| Tetrachloroethene | 1.0 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:19 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 01:19 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 01:19 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:19 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:19 | 79-00-5 | |
| Trichloroethene | 0.86 | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 01:19 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 01:19 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 01:19 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 01:19 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:19 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 01:19 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 01:19 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 01:19 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 99 % | | 75-125 | | 1 | | 04/09/14 01:19 | 17060-07-0 | |
| Toluene-d8 (S) | 100 % | | 75-125 | | 1 | | 04/09/14 01:19 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 102 % | | 75-125 | | 1 | | 04/09/14 01:19 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 15.3 | mg/L | 1.0 | 0.50 | 1 | | 04/09/14 04:19 | 16887-00-6 | |
| Sulfate | 7.3 | mg/L | 1.0 | 0.50 | 1 | | 04/09/14 04:19 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 498 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 09:35 | | M1 |
| Alkalinity,Bicarbonate (CaCO3) | 498 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 09:35 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 09:35 | | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-6 **Lab ID: 10261823004** Collected: 03/26/14 12:25 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|---|-------|--------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 135 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:12 | 04/09/14 15:03 | 7440-70-2 | |
| Magnesium, Dissolved | 39.6 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:12 | 04/09/14 15:03 | 7439-95-4 | |
| Potassium, Dissolved | 1.8 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:12 | 04/09/14 15:00 | 7440-09-7 | |
| Sodium, Dissolved | 13.6 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:12 | 04/09/14 15:00 | 7440-23-5 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 8.0 | mg/L | 1.0 | 0.50 | 1 | | 04/09/14 04:50 | 16887-00-6 | |
| Sulfate | 6.2 | mg/L | 1.0 | 0.50 | 1 | | 04/09/14 04:50 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 510 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 09:49 | | |
| Alkalinity,Bicarbonate (CaCO ₃) | 510 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 09:49 | | |
| Alkalinity,Carbonate (CaCO ₃) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 09:49 | | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-6B **Lab ID: 10261823005** Collected: 03/26/14 12:10 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|---|-------|--------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 43.0 | mg/L | 0.20 | 0.042 | 5 | 04/08/14 10:10 | 04/09/14 10:26 | 7440-70-2 | |
| Magnesium, Dissolved | 17.8 | mg/L | 0.010 | 0.0028 | 1 | 04/08/14 10:10 | 04/09/14 10:23 | 7439-95-4 | |
| Potassium, Dissolved | 1.3 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 10:23 | 7440-09-7 | |
| Sodium, Dissolved | 7.1 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:10 | 04/09/14 10:23 | 7440-23-5 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 1.7 | mg/L | 1.0 | 0.50 | 1 | | 04/09/14 05:22 | 16887-00-6 | |
| Sulfate | 4.3 | mg/L | 1.0 | 0.50 | 1 | | 04/09/14 05:22 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 168 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 09:54 | | |
| Alkalinity,Bicarbonate (CaCO ₃) | 168 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 09:54 | | |
| Alkalinity,Carbonate (CaCO ₃) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 09:54 | | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-8A Lab ID: 10261823006 Collected: 03/27/14 09:10 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------------------|---------|--|-------|--------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 172 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:12 | 04/09/14 15:09 | 7440-70-2 | |
| Magnesium, Dissolved | 65.0 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:12 | 04/09/14 15:09 | 7439-95-4 | |
| Potassium, Dissolved | 2.3 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:12 | 04/09/14 15:06 | 7440-09-7 | |
| Sodium, Dissolved | 36.3 | mg/L | 0.50 | 0.18 | 10 | 04/08/14 10:12 | 04/09/14 15:09 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 02:32 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:32 | 107-13-1 | |
| Benzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:32 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 02:32 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 02:32 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:32 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:32 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:32 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 02:32 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 02:32 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:32 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 02:32 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 02:32 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 02:32 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:32 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:32 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 02:32 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 02:32 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:32 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 02:32 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:32 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:32 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 02:32 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:32 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 02:32 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:32 | 75-35-4 | |
| cis-1,2-Dichloroethene | 0.95 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 02:32 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 02:32 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 02:32 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 02:32 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:32 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 02:32 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 02:32 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:32 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:32 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:32 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 02:32 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:32 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:32 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:32 | 1634-04-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-8A **Lab ID: 10261823006** Collected: 03/27/14 09:10 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 02:32 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:32 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:32 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 02:32 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 02:32 | 79-34-5 | |
| Tetrachloroethene | 0.65 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:32 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 02:32 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 02:32 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:32 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:32 | 79-00-5 | |
| Trichloroethene | 0.35J | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 02:32 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 02:32 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 02:32 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 02:32 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:32 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:32 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 02:32 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 02:32 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 105 % | | 75-125 | | 1 | | 04/09/14 02:32 | 17060-07-0 | |
| Toluene-d8 (S) | 98 % | | 75-125 | | 1 | | 04/09/14 02:32 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 105 % | | 75-125 | | 1 | | 04/09/14 02:32 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 73.7 | mg/L | 5.0 | 2.5 | 5 | | 04/09/14 20:03 | 16887-00-6 | |
| Sulfate | 52.6 | mg/L | 5.0 | 2.5 | 5 | | 04/09/14 20:03 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 483 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:06 | | |
| Alkalinity,Bicarbonate (CaCO3) | 483 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:06 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:06 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-8C **Lab ID: 10261823007** Collected: 03/27/14 09:20 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|---|-------|--------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 51.0 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:12 | 04/09/14 15:15 | 7440-70-2 | |
| Magnesium, Dissolved | 18.4 | mg/L | 0.010 | 0.0028 | 1 | 04/08/14 10:12 | 04/09/14 15:12 | 7439-95-4 | |
| Potassium, Dissolved | 1.1 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:12 | 04/09/14 15:12 | 7440-09-7 | |
| Sodium, Dissolved | 6.0 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:12 | 04/09/14 15:12 | 7440-23-5 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 5.2 | mg/L | 1.0 | 0.50 | 1 | | 04/09/14 20:34 | 16887-00-6 | |
| Sulfate | 6.8 | mg/L | 1.0 | 0.50 | 1 | | 04/09/14 20:34 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 168 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:26 | | |
| Alkalinity,Bicarbonate (CaCO ₃) | 168 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:26 | | |
| Alkalinity,Carbonate (CaCO ₃) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:26 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-10 **Lab ID: 10261823008** Collected: 03/27/14 12:00 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|---------|---|---------|---------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 173 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:10 | 04/09/14 11:30 | 7440-70-2 | |
| Iron, Dissolved | 3.6 | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 10:47 | 7439-89-6 | |
| Magnesium, Dissolved | 57.2 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:10 | 04/09/14 11:30 | 7439-95-4 | |
| Manganese, Dissolved | 0.12 | mg/L | 0.00050 | 0.00014 | 1 | 04/08/14 10:10 | 04/09/14 10:47 | 7439-96-5 | |
| Potassium, Dissolved | 2.1 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 10:47 | 7440-09-7 | |
| Sodium, Dissolved | 24.6 | mg/L | 0.50 | 0.18 | 10 | 04/08/14 10:10 | 04/09/14 11:30 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 02:57 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:57 | 107-13-1 | |
| Benzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:57 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 02:57 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 02:57 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:57 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:57 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:57 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 02:57 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 02:57 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:57 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 02:57 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 02:57 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 02:57 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:57 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:57 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 02:57 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 02:57 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:57 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 02:57 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:57 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:57 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 02:57 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:57 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 02:57 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:57 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.23 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 02:57 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 02:57 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 02:57 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 02:57 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:57 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 02:57 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 02:57 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:57 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:57 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:57 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 02:57 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 02:57 | 75-09-2 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-10 **Lab ID: 10261823008** Collected: 03/27/14 12:00 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 02:57 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:57 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 02:57 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:57 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 02:57 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 02:57 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 02:57 | 79-34-5 | |
| Tetrachloroethene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:57 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 02:57 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 02:57 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:57 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:57 | 79-00-5 | |
| Trichloroethene | 0.33J | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 02:57 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 02:57 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 02:57 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 02:57 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 02:57 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 02:57 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 02:57 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 02:57 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 101 %. | | 75-125 | | 1 | | 04/09/14 02:57 | 17060-07-0 | |
| Toluene-d8 (S) | 99 %. | | 75-125 | | 1 | | 04/09/14 02:57 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 %. | | 75-125 | | 1 | | 04/09/14 02:57 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 68.3 | mg/L | 5.0 | 2.5 | 5 | | 04/09/14 21:37 | 16887-00-6 | |
| Sulfate | 76.9 | mg/L | 5.0 | 2.5 | 5 | | 04/09/14 21:37 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 481 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:29 | | |
| Alkalinity,Bicarbonate (CaCO3) | 481 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:29 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:29 | | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-12 **Lab ID: 10261823009** Collected: 03/27/14 10:25 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|---------|---|-------|--------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 155 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:10 | 04/09/14 11:33 | 7440-70-2 | |
| Iron, Dissolved | 4.7 | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 10:50 | 7439-89-6 | |
| Magnesium, Dissolved | 36.5 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:10 | 04/09/14 11:33 | 7439-95-4 | |
| Manganese, Dissolved | 6.2 | mg/L | 0.010 | 0.0027 | 20 | 04/08/14 10:10 | 04/10/14 08:25 | 7439-96-5 | |
| Potassium, Dissolved | 1.7 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 10:50 | 7440-09-7 | |
| Sodium, Dissolved | 13.9 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:10 | 04/09/14 10:50 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 03:46 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 03:46 | 107-13-1 | |
| Benzene | 1.7 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 03:46 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 03:46 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 03:46 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 03:46 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 03:46 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 03:46 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 03:46 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 03:46 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 03:46 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 03:46 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 03:46 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 03:46 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 03:46 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 03:46 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 03:46 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 03:46 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 03:46 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 03:46 | 95-50-1 | |
| 1,4-Dichlorobenzene | 0.34J | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 03:46 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 03:46 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 03:46 | 75-71-8 | |
| 1,1-Dichloroethane | 1.2 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 03:46 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 03:46 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 03:46 | 75-35-4 | |
| cis-1,2-Dichloroethene | 3.9 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 03:46 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 03:46 | 156-60-5 | |
| 1,2-Dichloropropane | 0.23J | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 03:46 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 03:46 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 03:46 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 03:46 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 03:46 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 03:46 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 03:46 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 03:46 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 03:46 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 03:46 | 75-09-2 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-12 **Lab ID: 10261823009** Collected: 03/27/14 10:25 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 03:46 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 03:46 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 03:46 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 03:46 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 03:46 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 03:46 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 03:46 | 79-34-5 | |
| Tetrachloroethene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 03:46 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 03:46 | 109-99-9 | |
| Toluene | 0.43J | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 03:46 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 03:46 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 03:46 | 79-00-5 | |
| Trichloroethene | 0.25J | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 03:46 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 03:46 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 03:46 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 03:46 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 03:46 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 03:46 | 108-05-4 | |
| Vinyl chloride | 19.7 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 03:46 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 03:46 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 101 %. | | 75-125 | | 1 | | 04/09/14 03:46 | 17060-07-0 | |
| Toluene-d8 (S) | 98 %. | | 75-125 | | 1 | | 04/09/14 03:46 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 105 %. | | 75-125 | | 1 | | 04/09/14 03:46 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 18.5 | mg/L | 2.0 | 1.0 | 2 | | 04/09/14 22:40 | 16887-00-6 | |
| Sulfate | 14.8 | mg/L | 2.0 | 1.0 | 2 | | 04/09/14 22:40 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 584 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:33 | | |
| Alkalinity,Bicarbonate (CaCO3) | 584 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:33 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:33 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-13 **Lab ID: 10261823010** Collected: 03/27/14 15:12 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 04:35 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 04:35 | 107-13-1 | |
| Benzene | 0.68 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 04:35 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 04:35 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 04:35 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 04:35 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 04:35 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 04:35 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 04:35 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 04:35 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 04:35 | 108-90-7 | |
| Chloroethane | 1.9 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 04:35 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 04:35 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 04:35 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 04:35 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 04:35 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 04:35 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 04:35 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:35 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 04:35 | 95-50-1 | |
| 1,4-Dichlorobenzene | 0.58 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:35 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 04:35 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 04:35 | 75-71-8 | |
| 1,1-Dichloroethane | 1.5 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:35 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 04:35 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 04:35 | 75-35-4 | |
| cis-1,2-Dichloroethene | 1.1 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 04:35 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 04:35 | 156-60-5 | |
| 1,2-Dichloropropane | 0.26J | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 04:35 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 04:35 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:35 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 04:35 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 04:35 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 04:35 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 04:35 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 04:35 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 04:35 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 04:35 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 04:35 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:35 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 04:35 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:35 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 04:35 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 04:35 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 04:35 | 79-34-5 | |
| Tetrachloroethene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:35 | 127-18-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-13 **Lab ID: 10261823010** Collected: 03/27/14 15:12 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 04:35 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 04:35 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:35 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:35 | 79-00-5 | |
| Trichloroethene | 0.31J | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 04:35 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 04:35 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 04:35 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 04:35 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:35 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 04:35 | 108-05-4 | |
| Vinyl chloride | 17.1 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 04:35 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 04:35 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 102 | % | 75-125 | | 1 | | 04/09/14 04:35 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 75-125 | | 1 | | 04/09/14 04:35 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 103 | % | 75-125 | | 1 | | 04/09/14 04:35 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-15 **Lab ID: 10261823011** Collected: 03/27/14 17:45 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|----------|---|---------|---------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 58.2 | mg/L | 0.20 | 0.042 | 5 | 04/08/14 10:10 | 04/09/14 11:36 | 7440-70-2 | |
| Iron, Dissolved | <0.0080 | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 10:53 | 7439-89-6 | |
| Magnesium, Dissolved | 23.3 | mg/L | 0.050 | 0.014 | 5 | 04/08/14 10:10 | 04/09/14 11:36 | 7439-95-4 | |
| Manganese, Dissolved | 0.00046J | mg/L | 0.00050 | 0.00014 | 1 | 04/08/14 10:10 | 04/09/14 10:53 | 7439-96-5 | |
| Potassium, Dissolved | 1.1 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 10:53 | 7440-09-7 | |
| Sodium, Dissolved | 3.7 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:10 | 04/09/14 10:53 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 04:59 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 04:59 | 107-13-1 | |
| Benzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 04:59 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 04:59 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 04:59 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 04:59 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 04:59 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 04:59 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 04:59 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 04:59 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 04:59 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 04:59 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 04:59 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 04:59 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 04:59 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 04:59 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 04:59 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 04:59 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:59 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 04:59 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:59 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 04:59 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 04:59 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:59 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 04:59 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 04:59 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.23 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 04:59 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 04:59 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 04:59 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 04:59 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:59 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 04:59 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 04:59 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 04:59 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 04:59 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 04:59 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 04:59 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 04:59 | 75-09-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-15 **Lab ID: 10261823011** Collected: 03/27/14 17:45 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 04:59 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:59 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 04:59 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:59 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 04:59 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 04:59 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 04:59 | 79-34-5 | |
| Tetrachloroethene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:59 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 04:59 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 04:59 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:59 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:59 | 79-00-5 | |
| Trichloroethene | <0.13 | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 04:59 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 04:59 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 04:59 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 04:59 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 04:59 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 04:59 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 04:59 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 04:59 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 75-125 | | 1 | | 04/09/14 04:59 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 75-125 | | 1 | | 04/09/14 04:59 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 103 | % | 75-125 | | 1 | | 04/09/14 04:59 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 4.2 | mg/L | 1.0 | 0.50 | 1 | | 04/09/14 23:43 | 16887-00-6 | |
| Sulfate | 13.5 | mg/L | 1.0 | 0.50 | 1 | | 04/09/14 23:43 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 188 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:38 | | |
| Alkalinity,Bicarbonate (CaCO ₃) | 188 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:38 | | |
| Alkalinity,Carbonate (CaCO ₃) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:38 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-16 **Lab ID: 10261823012** Collected: 03/27/14 16:30 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|---|-------|--------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 132 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:12 | 04/09/14 15:21 | 7440-70-2 | |
| Magnesium, Dissolved | 38.6 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:12 | 04/09/14 15:21 | 7439-95-4 | |
| Potassium, Dissolved | 2.1 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:12 | 04/09/14 15:18 | 7440-09-7 | |
| Sodium, Dissolved | 14.8 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:12 | 04/09/14 15:18 | 7440-23-5 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 22.9 | mg/L | 5.0 | 2.5 | 5 | | 04/10/14 00:46 | 16887-00-6 | |
| Sulfate | 14.0 | mg/L | 5.0 | 2.5 | 5 | | 04/10/14 00:46 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 446 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:42 | | |
| Alkalinity,Bicarbonate (CaCO ₃) | 446 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:42 | | |
| Alkalinity,Carbonate (CaCO ₃) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:42 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-17 **Lab ID: 10261823013** Collected: 03/25/14 16:48 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|------------------|---|--------|--------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 118 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:10 | 04/09/14 11:39 | 7440-70-2 | |
| Iron, Dissolved | 0.015J | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 10:56 | 7439-89-6 | |
| Magnesium, Dissolved | 37.1 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:10 | 04/09/14 11:39 | 7439-95-4 | |
| Manganese, Dissolved | 0.59 | mg/L | 0.0050 | 0.0014 | 10 | 04/08/14 10:10 | 04/09/14 11:39 | 7439-96-5 | |
| Potassium, Dissolved | 2.2 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 10:56 | 7440-09-7 | |
| Sodium, Dissolved | 20.7 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:10 | 04/09/14 10:56 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/07/14 20:13 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 20:13 | 107-13-1 | L3 |
| Benzene | 0.38J | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 20:13 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/07/14 20:13 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/07/14 20:13 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 20:13 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 20:13 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 20:13 | 78-93-3 | L3 |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/07/14 20:13 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/07/14 20:13 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 20:13 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/07/14 20:13 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/07/14 20:13 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/07/14 20:13 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 20:13 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 20:13 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/07/14 20:13 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/07/14 20:13 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:13 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/07/14 20:13 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:13 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 20:13 | 110-57-6 | L3 |
| Dichlorodifluoromethane | 2.9 | ug/L | 1.0 | 0.40 | 1 | | 04/07/14 20:13 | 75-71-8 | |
| 1,1-Dichloroethane | 0.57 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:13 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/07/14 20:13 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 20:13 | 75-35-4 | |
| cis-1,2-Dichloroethene | 24.5 | ug/L | 0.50 | 0.23 | 1 | | 04/07/14 20:13 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/07/14 20:13 | 156-60-5 | |
| 1,2-Dichloropropane | 0.35J | ug/L | 4.0 | 0.20 | 1 | | 04/07/14 20:13 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/07/14 20:13 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:13 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/07/14 20:13 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/07/14 20:13 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 20:13 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 20:13 | 591-78-6 | L3 |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 20:13 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/07/14 20:13 | 98-82-8 | |
| Methylene Chloride | 5.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 20:13 | 75-09-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-17 **Lab ID: 10261823013** Collected: 03/25/14 16:48 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 20:13 | 108-10-1 | L3 |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:13 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/07/14 20:13 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:13 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 20:13 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/07/14 20:13 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/07/14 20:13 | 79-34-5 | |
| Tetrachloroethene | 15.9 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:13 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/07/14 20:13 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/07/14 20:13 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:13 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:13 | 79-00-5 | |
| Trichloroethene | 5.9 | ug/L | 0.40 | 0.13 | 1 | | 04/07/14 20:13 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/07/14 20:13 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/07/14 20:13 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/07/14 20:13 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:13 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 20:13 | 108-05-4 | |
| Vinyl chloride | 1.5 | ug/L | 0.20 | 0.10 | 1 | | 04/07/14 20:13 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/07/14 20:13 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 105 % | | 75-125 | | 1 | | 04/07/14 20:13 | 17060-07-0 | |
| Toluene-d8 (S) | 99 % | | 75-125 | | 1 | | 04/07/14 20:13 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 102 % | | 75-125 | | 1 | | 04/07/14 20:13 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 23.5 | mg/L | 2.0 | 1.0 | 2 | | 04/09/14 00:38 | 16887-00-6 | |
| Sulfate | 22.2 | mg/L | 2.0 | 1.0 | 2 | | 04/09/14 00:38 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 389 | mg/L | 5.0 | 2.5 | 1 | | 04/03/14 12:48 | | |
| Alkalinity,Bicarbonate (CaCO3) | 389 | mg/L | 5.0 | 2.5 | 1 | | 04/03/14 12:48 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/03/14 12:48 | | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-19 **Lab ID: 10261823014** Collected: 03/26/14 08:55 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|------------------|---|---------|---------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 99.1 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:10 | 04/09/14 11:42 | 7440-70-2 | |
| Iron, Dissolved | 0.011J | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 10:59 | 7439-89-6 | |
| Magnesium, Dissolved | 38.5 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:10 | 04/09/14 11:42 | 7439-95-4 | |
| Manganese, Dissolved | 0.042 | mg/L | 0.00050 | 0.00014 | 1 | 04/08/14 10:10 | 04/09/14 10:59 | 7439-96-5 | |
| Potassium, Dissolved | 2.5 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 10:59 | 7440-09-7 | |
| Sodium, Dissolved | 21.5 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:10 | 04/09/14 10:59 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 01:43 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 01:43 | 107-13-1 | |
| Benzene | 0.24J | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 01:43 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 01:43 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 01:43 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 01:43 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 01:43 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 01:43 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 01:43 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 01:43 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 01:43 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 01:43 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 01:43 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 01:43 | 74-87-3 | |
| Cyclohexane | 3.2J | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 01:43 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 01:43 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 01:43 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 01:43 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:43 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 01:43 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:43 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 01:43 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 01:43 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:43 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 01:43 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 01:43 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.23 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 01:43 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 01:43 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 01:43 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 01:43 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:43 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 01:43 | 123-91-1 | |
| Ethylbenzene | 0.27J | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 01:43 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 01:43 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 01:43 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 01:43 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 01:43 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 01:43 | 75-09-2 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-19 **Lab ID: 10261823014** Collected: 03/26/14 08:55 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 01:43 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:43 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 01:43 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:43 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 01:43 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 01:43 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 01:43 | 79-34-5 | |
| Tetrachloroethene | 0.77 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:43 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 01:43 | 109-99-9 | |
| Toluene | 1.2 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 01:43 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:43 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:43 | 79-00-5 | |
| Trichloroethene | <0.13 | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 01:43 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 01:43 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 01:43 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 01:43 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 0.59 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 01:43 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 01:43 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 01:43 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 01:43 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 99 %. | | 75-125 | | 1 | | 04/09/14 01:43 | 17060-07-0 | 1M |
| Toluene-d8 (S) | 98 %. | | 75-125 | | 1 | | 04/09/14 01:43 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 %. | | 75-125 | | 1 | | 04/09/14 01:43 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 29.7 | mg/L | 2.0 | 1.0 | 2 | | 04/09/14 05:53 | 16887-00-6 | |
| Sulfate | 40.5 | mg/L | 2.0 | 1.0 | 2 | | 04/09/14 05:53 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 443 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 11:54 | | |
| Alkalinity,Bicarbonate (CaCO3) | 443 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 11:54 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 11:54 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-20 **Lab ID: 10261823015** Collected: 03/25/14 15:40 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|------------------|---|--------|--------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 176 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:10 | 04/09/14 11:45 | 7440-70-2 | |
| Iron, Dissolved | 0.0091J | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 11:02 | 7439-89-6 | |
| Magnesium, Dissolved | 67.0 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:10 | 04/09/14 11:45 | 7439-95-4 | |
| Manganese, Dissolved | 1.8 | mg/L | 0.0050 | 0.0014 | 10 | 04/08/14 10:10 | 04/09/14 11:45 | 7439-96-5 | |
| Potassium, Dissolved | 5.0 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 11:02 | 7440-09-7 | |
| Sodium, Dissolved | 28.1 | mg/L | 0.50 | 0.18 | 10 | 04/08/14 10:10 | 04/09/14 11:45 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | 13.6J | ug/L | 20.0 | 10.0 | 1 | | 04/07/14 20:38 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 20:38 | 107-13-1 | L3 |
| Benzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 20:38 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/07/14 20:38 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/07/14 20:38 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 20:38 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 20:38 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 20:38 | 78-93-3 | L3 |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/07/14 20:38 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/07/14 20:38 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 20:38 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/07/14 20:38 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/07/14 20:38 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/07/14 20:38 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 20:38 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 20:38 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/07/14 20:38 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/07/14 20:38 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:38 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/07/14 20:38 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:38 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 20:38 | 110-57-6 | L3 |
| Dichlorodifluoromethane | 1.0 | ug/L | 1.0 | 0.40 | 1 | | 04/07/14 20:38 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:38 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/07/14 20:38 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 20:38 | 75-35-4 | |
| cis-1,2-Dichloroethene | 0.32J | ug/L | 0.50 | 0.23 | 1 | | 04/07/14 20:38 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/07/14 20:38 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/07/14 20:38 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/07/14 20:38 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:38 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/07/14 20:38 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/07/14 20:38 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 20:38 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 20:38 | 591-78-6 | L3 |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 20:38 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/07/14 20:38 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 20:38 | 75-09-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-20 **Lab ID: 10261823015** Collected: 03/25/14 15:40 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 20:38 | 108-10-1 | L3 |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:38 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/07/14 20:38 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:38 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 20:38 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/07/14 20:38 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/07/14 20:38 | 79-34-5 | |
| Tetrachloroethene | 10.6 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:38 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/07/14 20:38 | 109-99-9 | |
| Toluene | 0.30J | ug/L | 0.50 | 0.22 | 1 | | 04/07/14 20:38 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:38 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:38 | 79-00-5 | |
| Trichloroethene | 0.34J | ug/L | 0.40 | 0.13 | 1 | | 04/07/14 20:38 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/07/14 20:38 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/07/14 20:38 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/07/14 20:38 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 20:38 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 20:38 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/07/14 20:38 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/07/14 20:38 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 75-125 | | 1 | | 04/07/14 20:38 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 75-125 | | 1 | | 04/07/14 20:38 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 | % | 75-125 | | 1 | | 04/07/14 20:38 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 69.7 | mg/L | 5.0 | 2.5 | 5 | | 04/09/14 01:41 | 16887-00-6 | |
| Sulfate | 81.3 | mg/L | 5.0 | 2.5 | 5 | | 04/09/14 01:41 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 534 | mg/L | 5.0 | 2.5 | 1 | | 04/03/14 13:12 | | |
| Alkalinity,Bicarbonate (CaCO3) | 534 | mg/L | 5.0 | 2.5 | 1 | | 04/03/14 13:12 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/03/14 13:12 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-21 **Lab ID: 10261823016** Collected: 03/28/14 09:20 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|----------------|---|---------|---------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 63.2 | mg/L | 0.20 | 0.042 | 5 | 04/08/14 10:10 | 04/09/14 11:48 | 7440-70-2 | |
| Iron, Dissolved | 0.044J | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 11:05 | 7439-89-6 | |
| Magnesium, Dissolved | 16.6 | mg/L | 0.010 | 0.0028 | 1 | 04/08/14 10:10 | 04/09/14 11:05 | 7439-95-4 | |
| Manganese, Dissolved | 0.0026 | mg/L | 0.00050 | 0.00014 | 1 | 04/08/14 10:10 | 04/09/14 11:05 | 7439-96-5 | |
| Potassium, Dissolved | 1.3 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 11:05 | 7440-09-7 | |
| Sodium, Dissolved | 9.4 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:10 | 04/09/14 11:05 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | < 10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 05:24 | 67-64-1 | |
| Acrylonitrile | < 5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 05:24 | 107-13-1 | |
| Benzene | < 0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 05:24 | 71-43-2 | |
| Bromochloromethane | < 0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 05:24 | 74-97-5 | |
| Bromodichloromethane | < 0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 05:24 | 75-27-4 | |
| Bromoform | < 2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 05:24 | 75-25-2 | |
| Bromomethane | < 2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 05:24 | 74-83-9 | CL |
| 2-Butanone (MEK) | < 2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 05:24 | 78-93-3 | |
| Carbon disulfide | < 0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 05:24 | 75-15-0 | |
| Carbon tetrachloride | < 0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 05:24 | 56-23-5 | |
| Chlorobenzene | < 0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 05:24 | 108-90-7 | |
| Chloroethane | < 0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 05:24 | 75-00-3 | |
| Chloroform | < 0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 05:24 | 67-66-3 | |
| Chloromethane | < 0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 05:24 | 74-87-3 | |
| Cyclohexane | < 2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 05:24 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | < 2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 05:24 | 96-12-8 | |
| Dibromochloromethane | < 0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 05:24 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | < 0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 05:24 | 106-93-4 | |
| Dibromomethane | < 0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:24 | 74-95-3 | |
| 1,2-Dichlorobenzene | < 0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 05:24 | 95-50-1 | |
| 1,4-Dichlorobenzene | < 0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:24 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | < 5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 05:24 | 110-57-6 | |
| Dichlorodifluoromethane | < 0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 05:24 | 75-71-8 | |
| 1,1-Dichloroethane | < 0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:24 | 75-34-3 | |
| 1,2-Dichloroethane | < 0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 05:24 | 107-06-2 | |
| 1,1-Dichloroethene | < 0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 05:24 | 75-35-4 | |
| cis-1,2-Dichloroethene | < 0.23 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 05:24 | 156-59-2 | |
| trans-1,2-Dichloroethene | < 0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 05:24 | 156-60-5 | |
| 1,2-Dichloropropane | < 0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 05:24 | 78-87-5 | |
| cis-1,3-Dichloropropene | < 0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 05:24 | 10061-01-5 | |
| trans-1,3-Dichloropropene | < 0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:24 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | < 21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 05:24 | 123-91-1 | |
| Ethylbenzene | < 0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 05:24 | 100-41-4 | |
| n-Hexane | < 5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 05:24 | 110-54-3 | |
| 2-Hexanone | < 2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 05:24 | 591-78-6 | |
| Iodomethane | < 2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 05:24 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | < 0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 05:24 | 98-82-8 | |
| Methylene Chloride | < 2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 05:24 | 75-09-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-21 **Lab ID: 10261823016** Collected: 03/28/14 09:20 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 05:24 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:24 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 05:24 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:24 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 05:24 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 05:24 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 05:24 | 79-34-5 | |
| Tetrachloroethene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:24 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 05:24 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 05:24 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:24 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:24 | 79-00-5 | |
| Trichloroethene | <0.13 | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 05:24 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 05:24 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 05:24 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 05:24 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:24 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 05:24 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 05:24 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 05:24 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 75-125 | | 1 | | 04/09/14 05:24 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 75-125 | | 1 | | 04/09/14 05:24 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 106 | % | 75-125 | | 1 | | 04/09/14 05:24 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 5.2 | mg/L | 2.0 | 1.0 | 2 | | 04/10/14 01:18 | 16887-00-6 | |
| Sulfate | 19.4 | mg/L | 2.0 | 1.0 | 2 | | 04/10/14 01:18 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 285 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 11:59 | | |
| Alkalinity,Bicarbonate (CaCO ₃) | 285 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 11:59 | | |
| Alkalinity,Carbonate (CaCO ₃) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 11:59 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-22 **Lab ID: 10261823017** Collected: 03/27/14 15:12 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|----------|---|---------|---------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 98.9 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:10 | 04/09/14 11:51 | 7440-70-2 | |
| Iron, Dissolved | <0.0080 | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 11:08 | 7439-89-6 | |
| Magnesium, Dissolved | 28.9 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:10 | 04/09/14 11:51 | 7439-95-4 | |
| Manganese, Dissolved | 0.00040J | mg/L | 0.00050 | 0.00014 | 1 | 04/08/14 10:10 | 04/09/14 11:08 | 7439-96-5 | |
| Potassium, Dissolved | 1.4 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 11:08 | 7440-09-7 | |
| Sodium, Dissolved | 20.5 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:10 | 04/09/14 11:08 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 05:48 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 05:48 | 107-13-1 | |
| Benzene | 0.33J | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 05:48 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 05:48 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 05:48 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 05:48 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 05:48 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 05:48 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 05:48 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 05:48 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 05:48 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 05:48 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 05:48 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 05:48 | 74-87-3 | |
| Cyclohexane | 3.1J | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 05:48 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 05:48 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 05:48 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 05:48 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:48 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 05:48 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:48 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 05:48 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 05:48 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:48 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 05:48 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 05:48 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.23 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 05:48 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 05:48 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 05:48 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 05:48 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:48 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 05:48 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 05:48 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 05:48 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 05:48 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 05:48 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 05:48 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 05:48 | 75-09-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-22 **Lab ID: 10261823017** Collected: 03/27/14 15:12 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|--------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 05:48 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:48 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 05:48 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:48 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 05:48 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 05:48 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 05:48 | 79-34-5 | |
| Tetrachloroethene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:48 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 05:48 | 109-99-9 | |
| Toluene | 0.48J | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 05:48 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:48 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:48 | 79-00-5 | |
| Trichloroethene | <0.13 | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 05:48 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 05:48 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 05:48 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 05:48 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 0.26J | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 05:48 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 05:48 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 05:48 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 05:48 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 102 | % | 75-125 | | 1 | | 04/09/14 05:48 | 17060-07-0 | 1M |
| Toluene-d8 (S) | 100 | % | 75-125 | | 1 | | 04/09/14 05:48 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 106 | % | 75-125 | | 1 | | 04/09/14 05:48 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 13.3 | mg/L | 5.0 | 2.5 | 5 | | 04/10/14 03:24 | 16887-00-6 | |
| Sulfate | 37.6 | mg/L | 5.0 | 2.5 | 5 | | 04/10/14 03:24 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 281 | mg/L | 5.0 | 2.5 | 1 | | 05/07/14 10:16 | | 2M, H1 |
| Alkalinity, Bicarbonate (CaCO3) | 281 | mg/L | 5.0 | 2.5 | 1 | | 05/07/14 10:16 | | H1 |
| Alkalinity, Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 05/07/14 10:16 | | H1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-23 **Lab ID: 10261823018** Collected: 03/27/14 16:10 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|---------|---|---------|---------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 75.9 | mg/L | 0.20 | 0.042 | 5 | 04/08/14 10:10 | 04/09/14 12:05 | 7440-70-2 | |
| Iron, Dissolved | 0.012J | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 11:11 | 7439-89-6 | |
| Magnesium, Dissolved | 19.9 | mg/L | 0.010 | 0.0028 | 1 | 04/08/14 10:10 | 04/09/14 11:11 | 7439-95-4 | |
| Manganese, Dissolved | 0.00084 | mg/L | 0.00050 | 0.00014 | 1 | 04/08/14 10:10 | 04/09/14 11:11 | 7439-96-5 | |
| Potassium, Dissolved | 0.97 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 11:11 | 7440-09-7 | |
| Sodium, Dissolved | 10.8 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:10 | 04/09/14 11:11 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 06:13 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 06:13 | 107-13-1 | |
| Benzene | 0.24J | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 06:13 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 06:13 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 06:13 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 06:13 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 06:13 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 06:13 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 06:13 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 06:13 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 06:13 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 06:13 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 06:13 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 06:13 | 74-87-3 | |
| Cyclohexane | 3.0J | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 06:13 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 06:13 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 06:13 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 06:13 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:13 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 06:13 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:13 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 06:13 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 06:13 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:13 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 06:13 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 06:13 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.23 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 06:13 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 06:13 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 06:13 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 06:13 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:13 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 06:13 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 06:13 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 06:13 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 06:13 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 06:13 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 06:13 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 06:13 | 75-09-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-23 **Lab ID: 10261823018** Collected: 03/27/14 16:10 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 06:13 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:13 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 06:13 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:13 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 06:13 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 06:13 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 06:13 | 79-34-5 | |
| Tetrachloroethene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:13 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 06:13 | 109-99-9 | |
| Toluene | 0.60 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 06:13 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:13 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:13 | 79-00-5 | |
| Trichloroethene | <0.13 | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 06:13 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 06:13 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 06:13 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 06:13 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:13 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 06:13 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 06:13 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 06:13 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 75-125 | | 1 | | 04/09/14 06:13 | 17060-07-0 | 1M |
| Toluene-d8 (S) | 99 | % | 75-125 | | 1 | | 04/09/14 06:13 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 105 | % | 75-125 | | 1 | | 04/09/14 06:13 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 7.5 | mg/L | 5.0 | 2.5 | 5 | | 04/10/14 03:55 | 16887-00-6 | |
| Sulfate | 19.6 | mg/L | 5.0 | 2.5 | 5 | | 04/10/14 03:55 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 570 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:57 | | |
| Alkalinity,Bicarbonate (CaCO3) | 570 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:57 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 10:57 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-24 **Lab ID: 10261823019** Collected: 03/25/14 14:15 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|---------|---|---------|---------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 78.7 | mg/L | 0.20 | 0.042 | 5 | 04/08/14 10:10 | 04/09/14 12:08 | 7440-70-2 | |
| Iron, Dissolved | 0.010J | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 11:14 | 7439-89-6 | |
| Magnesium, Dissolved | 24.7 | mg/L | 0.050 | 0.014 | 5 | 04/08/14 10:10 | 04/09/14 12:08 | 7439-95-4 | |
| Manganese, Dissolved | 0.11 | mg/L | 0.00050 | 0.00014 | 1 | 04/08/14 10:10 | 04/09/14 11:14 | 7439-96-5 | |
| Potassium, Dissolved | 1.8 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 11:14 | 7440-09-7 | |
| Sodium, Dissolved | 16.2 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:10 | 04/09/14 11:14 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/07/14 21:03 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 21:03 | 107-13-1 | L3 |
| Benzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 21:03 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/07/14 21:03 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/07/14 21:03 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 21:03 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 21:03 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 21:03 | 78-93-3 | L3 |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/07/14 21:03 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/07/14 21:03 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 21:03 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/07/14 21:03 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/07/14 21:03 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/07/14 21:03 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 21:03 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 21:03 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/07/14 21:03 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/07/14 21:03 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 21:03 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/07/14 21:03 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 21:03 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 21:03 | 110-57-6 | L3 |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/07/14 21:03 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 21:03 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/07/14 21:03 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 21:03 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.23 | ug/L | 0.50 | 0.23 | 1 | | 04/07/14 21:03 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/07/14 21:03 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/07/14 21:03 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/07/14 21:03 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 21:03 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/07/14 21:03 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/07/14 21:03 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 21:03 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 21:03 | 591-78-6 | L3 |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 21:03 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/07/14 21:03 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/07/14 21:03 | 75-09-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-24 **Lab ID: 10261823019** Collected: 03/25/14 14:15 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/07/14 21:03 | 108-10-1 | L3 |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 21:03 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/07/14 21:03 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 21:03 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/07/14 21:03 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/07/14 21:03 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/07/14 21:03 | 79-34-5 | |
| Tetrachloroethene | 0.30J | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 21:03 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/07/14 21:03 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/07/14 21:03 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 21:03 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 21:03 | 79-00-5 | |
| Trichloroethene | <0.13 | ug/L | 0.40 | 0.13 | 1 | | 04/07/14 21:03 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/07/14 21:03 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/07/14 21:03 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/07/14 21:03 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/07/14 21:03 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/07/14 21:03 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/07/14 21:03 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/07/14 21:03 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 106 | % | 75-125 | | 1 | | 04/07/14 21:03 | 17060-07-0 | |
| Toluene-d8 (S) | 98 | % | 75-125 | | 1 | | 04/07/14 21:03 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 103 | % | 75-125 | | 1 | | 04/07/14 21:03 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 29.8 | mg/L | 2.0 | 1.0 | 2 | | 04/09/14 03:47 | 16887-00-6 | |
| Sulfate | 19.4 | mg/L | 2.0 | 1.0 | 2 | | 04/09/14 03:47 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 221 | mg/L | 5.0 | 2.5 | 1 | | 04/03/14 13:16 | | |
| Alkalinity,Bicarbonate (CaCO3) | 221 | mg/L | 5.0 | 2.5 | 1 | | 04/03/14 13:16 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/03/14 13:16 | | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-26 Lab ID: 10261823020 Collected: 03/27/14 14:15 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|---------|--|---------|---------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 99.2 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:10 | 04/09/14 12:11 | 7440-70-2 | |
| Iron, Dissolved | <0.0080 | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 11:24 | 7439-89-6 | |
| Magnesium, Dissolved | 29.0 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:10 | 04/09/14 12:11 | 7439-95-4 | |
| Manganese, Dissolved | 0.022 | mg/L | 0.00050 | 0.00014 | 1 | 04/08/14 10:10 | 04/09/14 11:24 | 7439-96-5 | |
| Potassium, Dissolved | 0.96 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 11:24 | 7440-09-7 | |
| Sodium, Dissolved | 7.2 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:10 | 04/09/14 11:24 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 06:38 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 06:38 | 107-13-1 | |
| Benzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 06:38 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 06:38 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 06:38 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 06:38 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 06:38 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 06:38 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 06:38 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 06:38 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 06:38 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 06:38 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 06:38 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 06:38 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 06:38 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 06:38 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 06:38 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 06:38 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:38 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 06:38 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:38 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 06:38 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 06:38 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:38 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 06:38 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 06:38 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.23 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 06:38 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 06:38 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 06:38 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 06:38 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:38 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 06:38 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 06:38 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 06:38 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 06:38 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 06:38 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 06:38 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 06:38 | 75-09-2 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-26 **Lab ID: 10261823020** Collected: 03/27/14 14:15 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 06:38 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:38 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 06:38 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:38 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 06:38 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 06:38 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 06:38 | 79-34-5 | |
| Tetrachloroethene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:38 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 06:38 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 06:38 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:38 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:38 | 79-00-5 | |
| Trichloroethene | <0.13 | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 06:38 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 06:38 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 06:38 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 06:38 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 06:38 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 06:38 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 06:38 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 06:38 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 109 | % | 75-125 | | 1 | | 04/09/14 06:38 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 75-125 | | 1 | | 04/09/14 06:38 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 107 | % | 75-125 | | 1 | | 04/09/14 06:38 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 28.1 | mg/L | 2.0 | 1.0 | 2 | | 04/10/14 04:27 | 16887-00-6 | |
| Sulfate | 29.3 | mg/L | 2.0 | 1.0 | 2 | | 04/10/14 04:27 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 269 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 11:05 | | |
| Alkalinity,Bicarbonate (CaCO3) | 269 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 11:05 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 04/04/14 11:05 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MCILHATTEN SEEP Lab ID: 10261823021 Collected: 03/28/14 10:15 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 07:02 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 07:02 | 107-13-1 | |
| Benzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 07:02 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 07:02 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 07:02 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 07:02 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 07:02 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 07:02 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 07:02 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 07:02 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 07:02 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 07:02 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 07:02 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 07:02 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 07:02 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 07:02 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 07:02 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 07:02 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:02 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 07:02 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:02 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 07:02 | 110-57-6 | |
| Dichlorodifluoromethane | 0.83J | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 07:02 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:02 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 07:02 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 07:02 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.23 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 07:02 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 07:02 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 07:02 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 07:02 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:02 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 07:02 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 07:02 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 07:02 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 07:02 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 07:02 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 07:02 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 07:02 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 07:02 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:02 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 07:02 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:02 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 07:02 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 07:02 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 07:02 | 79-34-5 | |
| Tetrachloroethene | 1.2 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:02 | 127-18-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MCILHATTEN SEEP **Lab ID: 10261823021** Collected: 03/28/14 10:15 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 07:02 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 07:02 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:02 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:02 | 79-00-5 | |
| Trichloroethene | 0.41 | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 07:02 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 07:02 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 07:02 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 07:02 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:02 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 07:02 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 07:02 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 07:02 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 100 | % | 75-125 | | 1 | | 04/09/14 07:02 | 17060-07-0 | |
| Toluene-d8 (S) | 98 | % | 75-125 | | 1 | | 04/09/14 07:02 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | % | 75-125 | | 1 | | 04/09/14 07:02 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: TRIP BLANK Lab ID: 10261823022 Collected: Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | 10.4J | ug/L | 20.0 | 10.0 | 1 | | 04/08/14 23:15 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/08/14 23:15 | 107-13-1 | |
| Benzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/08/14 23:15 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/08/14 23:15 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/08/14 23:15 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/08/14 23:15 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/08/14 23:15 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/08/14 23:15 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/08/14 23:15 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/08/14 23:15 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/08/14 23:15 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/08/14 23:15 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/08/14 23:15 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/08/14 23:15 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/08/14 23:15 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/08/14 23:15 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/08/14 23:15 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/08/14 23:15 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/08/14 23:15 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/08/14 23:15 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/08/14 23:15 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/08/14 23:15 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/08/14 23:15 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/08/14 23:15 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/08/14 23:15 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/08/14 23:15 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.23 | ug/L | 0.50 | 0.23 | 1 | | 04/08/14 23:15 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/08/14 23:15 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/08/14 23:15 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/08/14 23:15 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/08/14 23:15 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/08/14 23:15 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/08/14 23:15 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/08/14 23:15 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/08/14 23:15 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/08/14 23:15 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/08/14 23:15 | 98-82-8 | |
| Methylene Chloride | 4.8 | ug/L | 4.0 | 2.0 | 1 | | 04/08/14 23:15 | 75-09-2 | C0 |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/08/14 23:15 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/08/14 23:15 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/08/14 23:15 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/08/14 23:15 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/08/14 23:15 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/08/14 23:15 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/08/14 23:15 | 79-34-5 | |
| Tetrachloroethene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/08/14 23:15 | 127-18-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: TRIP BLANK **Lab ID: 10261823022** Collected: Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/08/14 23:15 | 109-99-9 | |
| Toluene | <0.22 | ug/L | 0.50 | 0.22 | 1 | | 04/08/14 23:15 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/08/14 23:15 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/08/14 23:15 | 79-00-5 | |
| Trichloroethene | <0.13 | ug/L | 0.40 | 0.13 | 1 | | 04/08/14 23:15 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/08/14 23:15 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/08/14 23:15 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/08/14 23:15 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/08/14 23:15 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/08/14 23:15 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/08/14 23:15 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/08/14 23:15 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 96 %. | | 75-125 | | 1 | | 04/08/14 23:15 | 17060-07-0 | |
| Toluene-d8 (S) | 97 %. | | 75-125 | | 1 | | 04/08/14 23:15 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 102 %. | | 75-125 | | 1 | | 04/08/14 23:15 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: DUP-1 **Lab ID: 10261823023** Collected: 03/27/14 08:00 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|----------|---|---------|---------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 98.7 | mg/L | 0.40 | 0.084 | 10 | 04/08/14 10:10 | 04/09/14 12:14 | 7440-70-2 | |
| Iron, Dissolved | 0.010J | mg/L | 0.050 | 0.0080 | 1 | 04/08/14 10:10 | 04/09/14 11:27 | 7439-89-6 | |
| Magnesium, Dissolved | 28.6 | mg/L | 0.10 | 0.028 | 10 | 04/08/14 10:10 | 04/09/14 12:14 | 7439-95-4 | |
| Manganese, Dissolved | 0.00047J | mg/L | 0.00050 | 0.00014 | 1 | 04/08/14 10:10 | 04/09/14 11:27 | 7439-96-5 | |
| Potassium, Dissolved | 1.4 | mg/L | 0.050 | 0.0083 | 1 | 04/08/14 10:10 | 04/09/14 11:27 | 7440-09-7 | |
| Sodium, Dissolved | 20.7 | mg/L | 0.050 | 0.018 | 1 | 04/08/14 10:10 | 04/09/14 11:27 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 04/09/14 07:27 | 67-64-1 | |
| Acrylonitrile | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 07:27 | 107-13-1 | |
| Benzene | 0.30J | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 07:27 | 71-43-2 | |
| Bromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 07:27 | 74-97-5 | |
| Bromodichloromethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 04/09/14 07:27 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 07:27 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 07:27 | 74-83-9 | CL |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 07:27 | 78-93-3 | |
| Carbon disulfide | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/09/14 07:27 | 75-15-0 | |
| Carbon tetrachloride | <0.31 | ug/L | 1.0 | 0.31 | 1 | | 04/09/14 07:27 | 56-23-5 | |
| Chlorobenzene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 07:27 | 108-90-7 | |
| Chloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/09/14 07:27 | 75-00-3 | |
| Chloroform | <0.50 | ug/L | 0.50 | 0.50 | 1 | | 04/09/14 07:27 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 4.0 | 0.50 | 1 | | 04/09/14 07:27 | 74-87-3 | |
| Cyclohexane | 3.0J | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 07:27 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 07:27 | 96-12-8 | |
| Dibromochloromethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 07:27 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 07:27 | 106-93-4 | |
| Dibromomethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:27 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 | ug/L | 0.50 | 0.092 | 1 | | 04/09/14 07:27 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:27 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 07:27 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 | ug/L | 1.0 | 0.40 | 1 | | 04/09/14 07:27 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:27 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 07:27 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 07:27 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.23 | ug/L | 0.50 | 0.23 | 1 | | 04/09/14 07:27 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 07:27 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 | ug/L | 4.0 | 0.20 | 1 | | 04/09/14 07:27 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.42 | ug/L | 1.0 | 0.42 | 1 | | 04/09/14 07:27 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:27 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 | ug/L | 200 | 21.4 | 1 | | 04/09/14 07:27 | 123-91-1 | |
| Ethylbenzene | <0.21 | ug/L | 0.50 | 0.21 | 1 | | 04/09/14 07:27 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 07:27 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 07:27 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 07:27 | 74-88-4 | CL |
| Isopropylbenzene (Cumene) | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 07:27 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 04/09/14 07:27 | 75-09-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: DUP-1 **Lab ID: 10261823023** Collected: 03/27/14 08:00 Received: 03/29/14 12:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------|---------|------------------------------|--------|------|----|----------|----------------|------------|--------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/09/14 07:27 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:27 | 1634-04-4 | |
| 2-Propanol | <100 | ug/L | 100 | 100 | 1 | | 04/09/14 07:27 | 67-63-0 | |
| n-Propylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:27 | 103-65-1 | |
| Styrene | <0.24 | ug/L | 0.50 | 0.24 | 1 | | 04/09/14 07:27 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/09/14 07:27 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 04/09/14 07:27 | 79-34-5 | |
| Tetrachloroethene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:27 | 127-18-4 | |
| Tetrahydrofuran | <2.9 | ug/L | 10.0 | 2.9 | 1 | | 04/09/14 07:27 | 109-99-9 | |
| Toluene | 0.47J | ug/L | 0.50 | 0.22 | 1 | | 04/09/14 07:27 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:27 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:27 | 79-00-5 | |
| Trichloroethene | <0.13 | ug/L | 0.40 | 0.13 | 1 | | 04/09/14 07:27 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 04/09/14 07:27 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 | ug/L | 4.0 | 0.54 | 1 | | 04/09/14 07:27 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/09/14 07:27 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 04/09/14 07:27 | 95-63-6 | |
| Vinyl acetate | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 04/09/14 07:27 | 108-05-4 | |
| Vinyl chloride | <0.10 | ug/L | 0.20 | 0.10 | 1 | | 04/09/14 07:27 | 75-01-4 | |
| Xylene (Total) | <0.75 | ug/L | 1.5 | 0.75 | 1 | | 04/09/14 07:27 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 75-125 | | 1 | | 04/09/14 07:27 | 17060-07-0 | 1M |
| Toluene-d8 (S) | 98 | % | 75-125 | | 1 | | 04/09/14 07:27 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 106 | % | 75-125 | | 1 | | 04/09/14 07:27 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 13.4 | mg/L | 5.0 | 2.5 | 5 | | 04/10/14 04:58 | 16887-00-6 | |
| Sulfate | 37.7 | mg/L | 5.0 | 2.5 | 5 | | 04/10/14 04:58 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 274 | mg/L | 5.0 | 2.5 | 1 | | 05/07/14 10:20 | | 2M, H1 |
| Alkalinity, Bicarbonate (CaCO3) | 274 | mg/L | 5.0 | 2.5 | 1 | | 05/07/14 10:20 | | H1 |
| Alkalinity, Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 05/07/14 10:20 | | H1 |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

QC Batch: MPRP/44951 Analysis Method: EPA 6020
 QC Batch Method: EPA 3020 Analysis Description: 6020 MET Dissolved
 Associated Lab Samples: 10261823005, 10261823008, 10261823009, 10261823011, 10261823013, 10261823014, 10261823015,
 10261823016, 10261823017, 10261823018, 10261823019, 10261823020, 10261823023

METHOD BLANK: 1647753 Matrix: Water
 Associated Lab Samples: 10261823005, 10261823008, 10261823009, 10261823011, 10261823013, 10261823014, 10261823015,
 10261823016, 10261823017, 10261823018, 10261823019, 10261823020, 10261823023

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|----------------------|-------|--------------|-----------------|----------------|------------|
| Calcium, Dissolved | mg/L | 0.011J | 0.040 | 04/09/14 10:17 | |
| Iron, Dissolved | mg/L | <0.0080 | 0.050 | 04/09/14 10:17 | |
| Magnesium, Dissolved | mg/L | <0.0028 | 0.010 | 04/09/14 10:17 | |
| Manganese, Dissolved | mg/L | <0.00014 | 0.00050 | 04/09/14 10:17 | |
| Potassium, Dissolved | mg/L | <0.0083 | 0.050 | 04/09/14 10:17 | |
| Sodium, Dissolved | mg/L | <0.018 | 0.050 | 04/09/14 10:17 | |

LABORATORY CONTROL SAMPLE: 1647754

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Calcium, Dissolved | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Iron, Dissolved | mg/L | 1 | 1.1 | 111 | 80-120 | |
| Magnesium, Dissolved | mg/L | 1 | 1.1 | 109 | 80-120 | |
| Manganese, Dissolved | mg/L | .08 | 0.081 | 101 | 80-120 | |
| Potassium, Dissolved | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Sodium, Dissolved | mg/L | 1 | 1.1 | 111 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1647755 1647756

| Parameter | Units | 10261823005 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|----------------------|-------|-------------|-------|-------------|-------------|--------|--------|-------|-------|--------------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | | | | |
| Calcium, Dissolved | mg/L | 43.0 | 1 | 1 | 1 | 44.1 | 43.8 | 102 | 77 | 75-125 | .6 | 20 | |
| Iron, Dissolved | mg/L | | 1 | 1 | 1 | 1.2 | 1.1 | 118 | 111 | 75-125 | 6 | 20 | |
| Magnesium, Dissolved | mg/L | 17.8 | 1 | 1 | 1 | 19.0 | 18.9 | 116 | 107 | 75-125 | .4 | 20 | |
| Manganese, Dissolved | mg/L | | .08 | .08 | .08 | 0.081 | 0.080 | 101 | 99 | 75-125 | 2 | 20 | |
| Potassium, Dissolved | mg/L | 1.3 | 1 | 1 | 1 | 2.2 | 2.2 | 95 | 96 | 75-125 | .2 | 20 | |
| Sodium, Dissolved | mg/L | 7.1 | 1 | 1 | 1 | 8.1 | 8.1 | 106 | 100 | 75-125 | .7 | 20 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

QC Batch: MPRP/45056 Analysis Method: EPA 6020
 QC Batch Method: EPA 3020 Analysis Description: 6020 MET Dissolved
 Associated Lab Samples: 10261823003, 10261823004, 10261823006, 10261823007, 10261823012

METHOD BLANK: 1651827 Matrix: Water
 Associated Lab Samples: 10261823003, 10261823004, 10261823006, 10261823007, 10261823012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|----------------------|-------|--------------|-----------------|----------------|------------|
| Calcium, Dissolved | mg/L | 0.0096J | 0.040 | 04/09/14 14:24 | |
| Magnesium, Dissolved | mg/L | <0.0028 | 0.010 | 04/09/14 14:24 | |
| Potassium, Dissolved | mg/L | 0.014J | 0.050 | 04/09/14 14:24 | |
| Sodium, Dissolved | mg/L | 0.019J | 0.050 | 04/09/14 14:24 | |

LABORATORY CONTROL SAMPLE: 1651828

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Calcium, Dissolved | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Magnesium, Dissolved | mg/L | 1 | 1.1 | 107 | 80-120 | |
| Potassium, Dissolved | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Sodium, Dissolved | mg/L | 1 | 1.1 | 111 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1651829 1651830

| Parameter | Units | 10261823003 | | MS | | MSD | | % Rec | % Rec | % Rec | Limits | RPD | Max RPD | Qual |
|----------------------|-------|-------------|-------|-------------|-------------|--------|--------|-------|--------|-------|--------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | Result | Result | | | | | | | |
| Calcium, Dissolved | mg/L | 142 | 1 | 1 | 151 | 150 | 908 | 866 | 75-125 | .3 | 20 | M1 | | |
| Magnesium, Dissolved | mg/L | 46.2 | 1 | 1 | 49.9 | 49.3 | 372 | 315 | 75-125 | 1 | 20 | M1 | | |
| Potassium, Dissolved | mg/L | 2.4 | 1 | 1 | 3.2 | 3.2 | 88 | 84 | 75-125 | 1 | 20 | | | |
| Sodium, Dissolved | mg/L | 20.8 | 1 | 1 | 22.8 | 22.7 | 201 | 188 | 75-125 | .5 | 20 | M1 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

QC Batch: MSV/26732 Analysis Method: EPA 8260B
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV LL Water
 Associated Lab Samples: 10261823001, 10261823002, 10261823003, 10261823006, 10261823008, 10261823009, 10261823010,
 10261823011, 10261823014, 10261823016, 10261823017, 10261823018, 10261823020, 10261823021,
 10261823022, 10261823023

METHOD BLANK: 1651610 Matrix: Water

Associated Lab Samples: 10261823001, 10261823002, 10261823003, 10261823006, 10261823008, 10261823009, 10261823010,
 10261823011, 10261823014, 10261823016, 10261823017, 10261823018, 10261823020, 10261823021,
 10261823022, 10261823023

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.25 | 1.0 | 04/08/14 22:50 | |
| 1,1,1-Trichloroethane | ug/L | <0.25 | 0.50 | 04/08/14 22:50 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.13 | 0.50 | 04/08/14 22:50 | |
| 1,1,2-Trichloroethane | ug/L | <0.25 | 0.50 | 04/08/14 22:50 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | <0.33 | 1.0 | 04/08/14 22:50 | |
| 1,1-Dichloroethane | ug/L | <0.25 | 0.50 | 04/08/14 22:50 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 0.50 | 04/08/14 22:50 | |
| 1,2,3-Trichloropropane | ug/L | <0.54 | 4.0 | 04/08/14 22:50 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.25 | 0.50 | 04/08/14 22:50 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <2.0 | 4.0 | 04/08/14 22:50 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.13 | 0.50 | 04/08/14 22:50 | |
| 1,2-Dichlorobenzene | ug/L | <0.092 | 0.50 | 04/08/14 22:50 | |
| 1,2-Dichloroethane | ug/L | <0.21 | 0.50 | 04/08/14 22:50 | |
| 1,2-Dichloropropane | ug/L | <0.20 | 4.0 | 04/08/14 22:50 | |
| 1,4-Dichlorobenzene | ug/L | <0.25 | 0.50 | 04/08/14 22:50 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | <21.4 | 200 | 04/08/14 22:50 | |
| 2-Butanone (MEK) | ug/L | <2.5 | 5.0 | 04/08/14 22:50 | |
| 2-Hexanone | ug/L | <2.5 | 5.0 | 04/08/14 22:50 | |
| 2-Propanol | ug/L | <100 | 100 | 04/08/14 22:50 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <2.5 | 5.0 | 04/08/14 22:50 | |
| Acetone | ug/L | <10.0 | 20.0 | 04/08/14 22:50 | |
| Acrylonitrile | ug/L | <5.0 | 10.0 | 04/08/14 22:50 | |
| Benzene | ug/L | <0.24 | 0.50 | 04/08/14 22:50 | |
| Bromochloromethane | ug/L | <0.50 | 1.0 | 04/08/14 22:50 | |
| Bromodichloromethane | ug/L | <0.18 | 0.50 | 04/08/14 22:50 | |
| Bromoform | ug/L | <2.0 | 4.0 | 04/08/14 22:50 | |
| Bromomethane | ug/L | <2.0 | 4.0 | 04/08/14 22:50 | CL |
| Carbon disulfide | ug/L | <0.22 | 1.0 | 04/08/14 22:50 | |
| Carbon tetrachloride | ug/L | <0.31 | 1.0 | 04/08/14 22:50 | |
| Chlorobenzene | ug/L | <0.24 | 0.50 | 04/08/14 22:50 | |
| Chloroethane | ug/L | <0.50 | 1.0 | 04/08/14 22:50 | |
| Chloroform | ug/L | <0.50 | 0.50 | 04/08/14 22:50 | |
| Chloromethane | ug/L | <0.50 | 4.0 | 04/08/14 22:50 | |
| cis-1,2-Dichloroethene | ug/L | <0.23 | 0.50 | 04/08/14 22:50 | |
| cis-1,3-Dichloropropene | ug/L | <0.42 | 1.0 | 04/08/14 22:50 | |
| Cyclohexane | ug/L | <2.5 | 5.0 | 04/08/14 22:50 | |
| Dibromochloromethane | ug/L | <0.25 | 1.0 | 04/08/14 22:50 | |
| Dibromomethane | ug/L | <0.25 | 0.50 | 04/08/14 22:50 | |
| Dichlorodifluoromethane | ug/L | <0.40 | 1.0 | 04/08/14 22:50 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

METHOD BLANK: 1651610

Matrix: Water

Associated Lab Samples: 10261823001, 10261823002, 10261823003, 10261823006, 10261823008, 10261823009, 10261823010, 10261823011, 10261823014, 10261823016, 10261823017, 10261823018, 10261823020, 10261823021, 10261823022, 10261823023

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| Ethylbenzene | ug/L | <0.21 | 0.50 | 04/08/14 22:50 | |
| Iodomethane | ug/L | <2.0 | 4.0 | 04/08/14 22:50 | CL |
| Isopropylbenzene (Cumene) | ug/L | <0.12 | 0.50 | 04/08/14 22:50 | |
| Methyl-tert-butyl ether | ug/L | <0.25 | 0.50 | 04/08/14 22:50 | |
| Methylene Chloride | ug/L | <2.0 | 4.0 | 04/08/14 22:50 | |
| n-Hexane | ug/L | <5.0 | 10.0 | 04/08/14 22:50 | |
| n-Propylbenzene | ug/L | <0.25 | 0.50 | 04/08/14 22:50 | |
| Styrene | ug/L | <0.24 | 0.50 | 04/08/14 22:50 | |
| Tetrachloroethene | ug/L | <0.25 | 0.50 | 04/08/14 22:50 | |
| Tetrahydrofuran | ug/L | <2.9 | 10.0 | 04/08/14 22:50 | |
| Toluene | ug/L | <0.22 | 0.50 | 04/08/14 22:50 | |
| trans-1,2-Dichloroethene | ug/L | <0.21 | 0.50 | 04/08/14 22:50 | |
| trans-1,3-Dichloropropene | ug/L | <0.25 | 0.50 | 04/08/14 22:50 | |
| trans-1,4-Dichloro-2-butene | ug/L | <5.0 | 10.0 | 04/08/14 22:50 | |
| Trichloroethene | ug/L | <0.13 | 0.40 | 04/08/14 22:50 | |
| Trichlorofluoromethane | ug/L | <0.12 | 0.50 | 04/08/14 22:50 | |
| Vinyl acetate | ug/L | <5.0 | 10.0 | 04/08/14 22:50 | |
| Vinyl chloride | ug/L | <0.10 | 0.20 | 04/08/14 22:50 | |
| Xylene (Total) | ug/L | <0.75 | 1.5 | 04/08/14 22:50 | |
| 1,2-Dichloroethane-d4 (S) | % | 95 | 75-125 | 04/08/14 22:50 | |
| 4-Bromofluorobenzene (S) | % | 102 | 75-125 | 04/08/14 22:50 | |
| Toluene-d8 (S) | % | 97 | 75-125 | 04/08/14 22:50 | |

LABORATORY CONTROL SAMPLE: 1651611

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 19.4 | 97 | 75-125 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 18.9 | 94 | 73-125 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 19.2 | 96 | 74-125 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 20.2 | 101 | 75-125 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | 20 | 19.4 | 97 | 56-133 | |
| 1,1-Dichloroethane | ug/L | 20 | 18.7 | 94 | 75-125 | |
| 1,1-Dichloroethene | ug/L | 20 | 19.1 | 95 | 70-125 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 20.1 | 100 | 75-125 | |
| 1,2,4-Trimethylbenzene | ug/L | 20 | 19.7 | 98 | 75-125 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 50.5 | 101 | 70-125 | |
| 1,2-Dibromoethane (EDB) | ug/L | 20 | 21.7 | 108 | 75-125 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 19.8 | 99 | 75-125 | |
| 1,2-Dichloroethane | ug/L | 20 | 18.5 | 92 | 75-125 | |
| 1,2-Dichloropropane | ug/L | 20 | 20.2 | 101 | 75-125 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 19.2 | 96 | 75-125 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | 400 | 415 | 104 | 73-128 | |
| 2-Butanone (MEK) | ug/L | 100 | 109 | 109 | 64-126 | |
| 2-Hexanone | ug/L | 100 | 111 | 111 | 69-127 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

LABORATORY CONTROL SAMPLE: 1651611

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Propanol | ug/L | 200 | 191 | 95 | 57-132 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 106 | 106 | 71-125 | |
| Acetone | ug/L | 100 | 116 | 116 | 66-131 | |
| Acrylonitrile | ug/L | 200 | 203 | 102 | 68-127 | |
| Benzene | ug/L | 20 | 19.1 | 96 | 75-125 | |
| Bromochloromethane | ug/L | 20 | 19.0 | 95 | 75-125 | |
| Bromodichloromethane | ug/L | 20 | 20.5 | 102 | 75-125 | |
| Bromoform | ug/L | 20 | 19.2 | 96 | 70-125 | |
| Bromomethane | ug/L | 20 | 9.1 | 45 | 30-150 | CL |
| Carbon disulfide | ug/L | 20 | 18.9 | 94 | 60-125 | |
| Carbon tetrachloride | ug/L | 20 | 19.1 | 96 | 68-129 | |
| Chlorobenzene | ug/L | 20 | 18.8 | 94 | 75-125 | |
| Chloroethane | ug/L | 20 | 19.1 | 96 | 68-133 | |
| Chloroform | ug/L | 20 | 19.6 | 98 | 75-125 | |
| Chloromethane | ug/L | 20 | 17.2 | 86 | 57-140 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 19.5 | 98 | 75-125 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 20.1 | 101 | 75-125 | |
| Cyclohexane | ug/L | 100 | 94.6 | 95 | 57-127 | |
| Dibromochloromethane | ug/L | 20 | 20.5 | 102 | 75-125 | |
| Dibromomethane | ug/L | 20 | 21.6 | 108 | 75-125 | |
| Dichlorodifluoromethane | ug/L | 20 | 18.8 | 94 | 50-134 | |
| Ethylbenzene | ug/L | 20 | 19.5 | 97 | 75-125 | |
| Iodomethane | ug/L | 20 | 10 | 50 | 30-150 | CL |
| Isopropylbenzene (Cumene) | ug/L | 20 | 20.6 | 103 | 73-125 | |
| Methyl-tert-butyl ether | ug/L | 20 | 18.6 | 93 | 75-125 | |
| Methylene Chloride | ug/L | 20 | 18.8 | 94 | 75-125 | |
| n-Hexane | ug/L | 50 | 49.6 | 99 | 30-150 | |
| n-Propylbenzene | ug/L | 20 | 19.4 | 97 | 72-125 | |
| Styrene | ug/L | 20 | 21.1 | 106 | 75-125 | |
| Tetrachloroethene | ug/L | 20 | 20.3 | 101 | 71-125 | |
| Tetrahydrofuran | ug/L | 200 | 220 | 110 | 70-125 | |
| Toluene | ug/L | 20 | 18.3 | 92 | 75-125 | |
| trans-1,2-Dichloroethene | ug/L | 20 | 19.2 | 96 | 73-125 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 19.3 | 96 | 75-125 | |
| trans-1,4-Dichloro-2-butene | ug/L | 50 | 52.1 | 104 | 63-127 | |
| Trichloroethene | ug/L | 20 | 19.9 | 99 | 75-125 | |
| Trichlorofluoromethane | ug/L | 20 | 22.0 | 110 | 70-128 | |
| Vinyl acetate | ug/L | 20 | 19.9 | 100 | 59-131 | |
| Vinyl chloride | ug/L | 20 | 19.7 | 98 | 70-130 | |
| Xylene (Total) | ug/L | 60 | 58.1 | 97 | 75-125 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 91 | 75-125 | |
| 4-Bromofluorobenzene (S) | % | | | 98 | 75-125 | |
| Toluene-d8 (S) | % | | | 96 | 75-125 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| MATRIX SPIKE SAMPLE: 1653111 | | 10261609002 | Spike | MS | MS | % Rec | |
|--------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter | Units | Result | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,1,1,2-Tetrachloroethane | ug/L | <0.25 | 20 | 19.3 | 97 | 74-131 | |
| 1,1,1-Trichloroethane | ug/L | <0.25 | 20 | 21.1 | 106 | 73-139 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.13 | 20 | 20.1 | 100 | 72-125 | |
| 1,1,2-Trichloroethane | ug/L | <0.25 | 20 | 19.9 | 100 | 75-125 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | <0.33 | 20 | 23.5 | 117 | 68-150 | |
| 1,1-Dichloroethane | ug/L | <0.25 | 20 | 20.4 | 102 | 73-132 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 20 | 22.1 | 111 | 71-142 | |
| 1,2,3-Trichloropropane | ug/L | <0.54 | 20 | 20.6 | 103 | 74-125 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.25 | 20 | 19.3 | 97 | 72-136 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <2.0 | 50 | 51.2 | 102 | 66-127 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.13 | 20 | 21.3 | 106 | 75-125 | |
| 1,2-Dichlorobenzene | ug/L | <0.092 | 20 | 19.2 | 96 | 75-125 | |
| 1,2-Dichloroethane | ug/L | <0.21 | 20 | 19.3 | 96 | 68-128 | |
| 1,2-Dichloropropane | ug/L | <0.20 | 20 | 21.0 | 105 | 74-131 | |
| 1,4-Dichlorobenzene | ug/L | <0.25 | 20 | 18.4 | 92 | 73-125 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | <21.4 | 400 | 410 | 102 | 64-137 | |
| 2-Butanone (MEK) | ug/L | <2.5 | 100 | 115 | 115 | 56-140 | |
| 2-Hexanone | ug/L | <2.5 | 100 | 116 | 116 | 63-132 | |
| 2-Propanol | ug/L | <100 | 200 | 235 | 105 | 30-150 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <2.5 | 100 | 111 | 111 | 69-128 | |
| Acetone | ug/L | 20.4 | 100 | 118 | 97 | 57-143 | |
| Acrylonitrile | ug/L | <5.0 | 200 | 212 | 106 | 50-149 | |
| Benzene | ug/L | <0.24 | 20 | 20.5 | 102 | 75-129 | |
| Bromochloromethane | ug/L | <0.50 | 20 | 19.5 | 97 | 75-126 | |
| Bromodichloromethane | ug/L | <0.18 | 20 | 21.2 | 106 | 75-128 | |
| Bromoform | ug/L | <2.0 | 20 | 18.8 | 94 | 66-130 | |
| Bromomethane | ug/L | <2.0 | 20 | 11.1 | 56 | 30-150 | CL |
| Carbon disulfide | ug/L | 0.47J | 20 | 22.6 | 111 | 56-140 | |
| Carbon tetrachloride | ug/L | <0.31 | 20 | 21.0 | 105 | 69-148 | |
| Chlorobenzene | ug/L | <0.24 | 20 | 18.8 | 94 | 75-125 | |
| Chloroethane | ug/L | <0.50 | 20 | 20.1 | 101 | 71-143 | |
| Chloroform | ug/L | <0.50 | 20 | 20.9 | 104 | 75-126 | |
| Chloromethane | ug/L | <0.50 | 20 | 18.2 | 91 | 55-150 | |
| cis-1,2-Dichloroethene | ug/L | <0.23 | 20 | 20.9 | 105 | 75-130 | |
| cis-1,3-Dichloropropene | ug/L | <0.42 | 20 | 19.4 | 97 | 72-129 | |
| Cyclohexane | ug/L | <2.5 | 100 | 114 | 114 | 56-150 | |
| Dibromochloromethane | ug/L | <0.25 | 20 | 20.1 | 101 | 73-129 | |
| Dibromomethane | ug/L | <0.25 | 20 | 21.3 | 106 | 75-125 | |
| Dichlorodifluoromethane | ug/L | <0.40 | 20 | 21.2 | 106 | 70-150 | |
| Ethylbenzene | ug/L | <0.21 | 20 | 19.7 | 98 | 75-128 | |
| Iodomethane | ug/L | <2.0 | 20 | 11.5 | 58 | 30-150 | CL |
| Isopropylbenzene (Cumene) | ug/L | <0.12 | 20 | 20.3 | 102 | 75-131 | |
| Methyl-tert-butyl ether | ug/L | <0.25 | 20 | 19.0 | 95 | 74-128 | |
| Methylene Chloride | ug/L | <2.0 | 20 | 19.9 | 99 | 69-125 | |
| n-Hexane | ug/L | <5.0 | 50 | 49.3 | 99 | 30-150 | |
| n-Propylbenzene | ug/L | <0.25 | 20 | 19.4 | 97 | 72-131 | |
| Styrene | ug/L | <0.24 | 20 | 20.2 | 101 | 75-128 | |
| Tetrachloroethene | ug/L | <0.25 | 20 | 20.8 | 104 | 68-140 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| MATRIX SPIKE SAMPLE: 1653111 | | 10261609002 | Spike | MS | MS | % Rec | |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter | Units | Result | Conc. | Result | % Rec | Limits | Qualifiers |
| Tetrahydrofuran | ug/L | <2.9 | 200 | 203 | 102 | 65-131 | |
| Toluene | ug/L | <0.22 | 20 | 19.0 | 95 | 75-129 | |
| trans-1,2-Dichloroethene | ug/L | <0.21 | 20 | 21.6 | 108 | 70-136 | |
| trans-1,3-Dichloropropene | ug/L | <0.25 | 20 | 19.1 | 96 | 71-125 | |
| trans-1,4-Dichloro-2-butene | ug/L | <5.0 | 50 | 54.6 | 109 | 57-136 | |
| Trichloroethene | ug/L | <0.13 | 20 | 20.2 | 101 | 72-135 | |
| Trichlorofluoromethane | ug/L | <0.12 | 20 | 25.0 | 125 | 75-150 | |
| Vinyl acetate | ug/L | <5.0 | 20 | 20.4 | 102 | 55-132 | |
| Vinyl chloride | ug/L | <0.10 | 20 | 22.5 | 113 | 73-150 | |
| Xylene (Total) | ug/L | <0.75 | 60 | 58.1 | 97 | 75-129 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 102 | 75-125 | |
| 4-Bromofluorobenzene (S) | % | | | | 102 | 75-125 | |
| Toluene-d8 (S) | % | | | | 97 | 75-125 | |

SAMPLE DUPLICATE: 1653112

| Parameter | Units | 10261609003 | Dup | RPD | Max | Qualifiers |
|--------------------------------|-------|-------------|--------|-----|-----|------------|
| | | Result | Result | | RPD | |
| 1,1,1,2-Tetrachloroethane | ug/L | <0.25 | <0.25 | | 30 | |
| 1,1,1-Trichloroethane | ug/L | <0.25 | <0.25 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.13 | <0.13 | | 30 | |
| 1,1,2-Trichloroethane | ug/L | <0.25 | <0.25 | | 30 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | <0.33 | <0.33 | | 30 | |
| 1,1-Dichloroethane | ug/L | <0.25 | <0.25 | | 30 | |
| 1,1-Dichloroethene | ug/L | <0.24 | <0.24 | | 30 | |
| 1,2,3-Trichloropropane | ug/L | <0.54 | <0.54 | | 30 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.25 | <0.25 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <2.0 | <2.0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.13 | <0.13 | | 30 | |
| 1,2-Dichlorobenzene | ug/L | <0.092 | <0.092 | | 30 | |
| 1,2-Dichloroethane | ug/L | <0.21 | <0.21 | | 30 | |
| 1,2-Dichloropropane | ug/L | <0.20 | <0.20 | | 30 | |
| 1,4-Dichlorobenzene | ug/L | <0.25 | <0.25 | | 30 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | <21.4 | <21.4 | | 30 | |
| 2-Butanone (MEK) | ug/L | <2.5 | <2.5 | | 30 | |
| 2-Hexanone | ug/L | <2.5 | <2.5 | | 30 | |
| 2-Propanol | ug/L | <100 | <100 | | 30 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <2.5 | <2.5 | | 30 | |
| Acetone | ug/L | <10.0 | <10.0 | | 30 | |
| Acrylonitrile | ug/L | <5.0 | <5.0 | | 30 | |
| Benzene | ug/L | <0.24 | <0.24 | | 30 | |
| Bromochloromethane | ug/L | <0.50 | <0.50 | | 30 | |
| Bromodichloromethane | ug/L | <0.18 | <0.18 | | 30 | |
| Bromoform | ug/L | <2.0 | <2.0 | | 30 | |
| Bromomethane | ug/L | <2.0 | <2.0 | | 30 | CL |
| Carbon disulfide | ug/L | <0.22 | <0.22 | | 30 | |
| Carbon tetrachloride | ug/L | <0.31 | <0.31 | | 30 | |
| Chlorobenzene | ug/L | <0.24 | <0.24 | | 30 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

SAMPLE DUPLICATE: 1653112

| Parameter | Units | 10261609003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Chloroethane | ug/L | <0.50 | <0.50 | | 30 | |
| Chloroform | ug/L | <0.50 | <0.50 | | 30 | |
| Chloromethane | ug/L | <0.50 | <0.50 | | 30 | |
| cis-1,2-Dichloroethene | ug/L | <0.23 | <0.23 | | 30 | |
| cis-1,3-Dichloropropene | ug/L | <0.42 | <0.42 | | 30 | |
| Cyclohexane | ug/L | <2.5 | <2.5 | | 30 | |
| Dibromochloromethane | ug/L | <0.25 | <0.25 | | 30 | |
| Dibromomethane | ug/L | <0.25 | <0.25 | | 30 | |
| Dichlorodifluoromethane | ug/L | <0.40 | <0.40 | | 30 | |
| Ethylbenzene | ug/L | <0.21 | <0.21 | | 30 | |
| Iodomethane | ug/L | <2.0 | <2.0 | | 30 | CL |
| Isopropylbenzene (Cumene) | ug/L | <0.12 | <0.12 | | 30 | |
| Methyl-tert-butyl ether | ug/L | <0.25 | <0.25 | | 30 | |
| Methylene Chloride | ug/L | <2.0 | <2.0 | | 30 | |
| n-Hexane | ug/L | <5.0 | <5.0 | | 30 | |
| n-Propylbenzene | ug/L | <0.25 | <0.25 | | 30 | |
| Styrene | ug/L | <0.24 | <0.24 | | 30 | |
| Tetrachloroethene | ug/L | <0.25 | <0.25 | | 30 | |
| Tetrahydrofuran | ug/L | <2.9 | <2.9 | | 30 | |
| Toluene | ug/L | <0.22 | <0.22 | | 30 | |
| trans-1,2-Dichloroethene | ug/L | <0.21 | <0.21 | | 30 | |
| trans-1,3-Dichloropropene | ug/L | <0.25 | <0.25 | | 30 | |
| trans-1,4-Dichloro-2-butene | ug/L | <5.0 | <5.0 | | 30 | |
| Trichloroethene | ug/L | <0.13 | <0.13 | | 30 | |
| Trichlorofluoromethane | ug/L | <0.12 | <0.12 | | 30 | |
| Vinyl acetate | ug/L | <5.0 | <5.0 | | 30 | |
| Vinyl chloride | ug/L | <0.10 | <0.10 | | 30 | |
| Xylene (Total) | ug/L | <0.75 | <0.75 | | 30 | |
| 1,2-Dichloroethane-d4 (S) | %. | 97 | 97 | .2 | | |
| 4-Bromofluorobenzene (S) | %. | 103 | 104 | 1 | | |
| Toluene-d8 (S) | %. | 98 | 98 | .2 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

QC Batch: MSV/26752 Analysis Method: EPA 8260B
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV LL Water
 Associated Lab Samples: 10261823013, 10261823015, 10261823019

METHOD BLANK: 1653040 Matrix: Water

Associated Lab Samples: 10261823013, 10261823015, 10261823019

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.25 | 1.0 | 04/07/14 18:07 | |
| 1,1,1-Trichloroethane | ug/L | <0.25 | 0.50 | 04/07/14 18:07 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.13 | 0.50 | 04/07/14 18:07 | |
| 1,1,2-Trichloroethane | ug/L | <0.25 | 0.50 | 04/07/14 18:07 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | <0.33 | 1.0 | 04/07/14 18:07 | |
| 1,1-Dichloroethane | ug/L | <0.25 | 0.50 | 04/07/14 18:07 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 0.50 | 04/07/14 18:07 | |
| 1,2,3-Trichloropropane | ug/L | <0.54 | 4.0 | 04/07/14 18:07 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.25 | 0.50 | 04/07/14 18:07 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <2.0 | 4.0 | 04/07/14 18:07 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.13 | 0.50 | 04/07/14 18:07 | |
| 1,2-Dichlorobenzene | ug/L | <0.092 | 0.50 | 04/07/14 18:07 | |
| 1,2-Dichloroethane | ug/L | <0.21 | 0.50 | 04/07/14 18:07 | |
| 1,2-Dichloropropane | ug/L | <0.20 | 4.0 | 04/07/14 18:07 | |
| 1,4-Dichlorobenzene | ug/L | <0.25 | 0.50 | 04/07/14 18:07 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | <21.4 | 200 | 04/07/14 18:07 | |
| 2-Butanone (MEK) | ug/L | <2.5 | 5.0 | 04/07/14 18:07 | |
| 2-Hexanone | ug/L | <2.5 | 5.0 | 04/07/14 18:07 | |
| 2-Propanol | ug/L | <100 | 100 | 04/07/14 18:07 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <2.5 | 5.0 | 04/07/14 18:07 | |
| Acetone | ug/L | <10.0 | 20.0 | 04/07/14 18:07 | |
| Acrylonitrile | ug/L | <5.0 | 10.0 | 04/07/14 18:07 | |
| Benzene | ug/L | <0.24 | 0.50 | 04/07/14 18:07 | |
| Bromochloromethane | ug/L | <0.50 | 1.0 | 04/07/14 18:07 | |
| Bromodichloromethane | ug/L | <0.18 | 0.50 | 04/07/14 18:07 | |
| Bromoform | ug/L | <2.0 | 4.0 | 04/07/14 18:07 | |
| Bromomethane | ug/L | <2.0 | 4.0 | 04/07/14 18:07 | CL |
| Carbon disulfide | ug/L | <0.22 | 1.0 | 04/07/14 18:07 | |
| Carbon tetrachloride | ug/L | <0.31 | 1.0 | 04/07/14 18:07 | |
| Chlorobenzene | ug/L | <0.24 | 0.50 | 04/07/14 18:07 | |
| Chloroethane | ug/L | <0.50 | 1.0 | 04/07/14 18:07 | |
| Chloroform | ug/L | <0.50 | 0.50 | 04/07/14 18:07 | |
| Chloromethane | ug/L | <0.50 | 4.0 | 04/07/14 18:07 | |
| cis-1,2-Dichloroethene | ug/L | <0.23 | 0.50 | 04/07/14 18:07 | |
| cis-1,3-Dichloropropene | ug/L | <0.42 | 1.0 | 04/07/14 18:07 | |
| Cyclohexane | ug/L | <2.5 | 5.0 | 04/07/14 18:07 | |
| Dibromochloromethane | ug/L | <0.25 | 1.0 | 04/07/14 18:07 | |
| Dibromomethane | ug/L | <0.25 | 0.50 | 04/07/14 18:07 | |
| Dichlorodifluoromethane | ug/L | <0.40 | 1.0 | 04/07/14 18:07 | |
| Ethylbenzene | ug/L | <0.21 | 0.50 | 04/07/14 18:07 | |
| Iodomethane | ug/L | <2.0 | 4.0 | 04/07/14 18:07 | CL |
| Isopropylbenzene (Cumene) | ug/L | <0.12 | 0.50 | 04/07/14 18:07 | |
| Methyl-tert-butyl ether | ug/L | <0.25 | 0.50 | 04/07/14 18:07 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

METHOD BLANK: 1653040

Matrix: Water

Associated Lab Samples: 10261823013, 10261823015, 10261823019

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| Methylene Chloride | ug/L | <2.0 | 4.0 | 04/07/14 18:07 | |
| n-Hexane | ug/L | <5.0 | 10.0 | 04/07/14 18:07 | |
| n-Propylbenzene | ug/L | <0.25 | 0.50 | 04/07/14 18:07 | |
| Styrene | ug/L | <0.24 | 0.50 | 04/07/14 18:07 | |
| Tetrachloroethene | ug/L | <0.25 | 0.50 | 04/07/14 18:07 | |
| Tetrahydrofuran | ug/L | <2.9 | 10.0 | 04/07/14 18:07 | |
| Toluene | ug/L | <0.22 | 0.50 | 04/07/14 18:07 | |
| trans-1,2-Dichloroethene | ug/L | <0.21 | 0.50 | 04/07/14 18:07 | |
| trans-1,3-Dichloropropene | ug/L | <0.25 | 0.50 | 04/07/14 18:07 | |
| trans-1,4-Dichloro-2-butene | ug/L | <5.0 | 10.0 | 04/07/14 18:07 | |
| Trichloroethene | ug/L | <0.13 | 0.40 | 04/07/14 18:07 | |
| Trichlorofluoromethane | ug/L | <0.12 | 0.50 | 04/07/14 18:07 | |
| Vinyl acetate | ug/L | <5.0 | 10.0 | 04/07/14 18:07 | |
| Vinyl chloride | ug/L | <0.10 | 0.20 | 04/07/14 18:07 | |
| Xylene (Total) | ug/L | <0.75 | 1.5 | 04/07/14 18:07 | |
| 1,2-Dichloroethane-d4 (S) | % | 105 | 75-125 | 04/07/14 18:07 | |
| 4-Bromofluorobenzene (S) | % | 100 | 75-125 | 04/07/14 18:07 | |
| Toluene-d8 (S) | % | 99 | 75-125 | 04/07/14 18:07 | |

LABORATORY CONTROL SAMPLE & LCSD: 1653041

1653248

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|--------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 21.7 | 18.9 | 108 | 95 | 75-125 | 14 | 20 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 24.0 | 21.4 | 120 | 107 | 73-125 | 11 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 23.2 | 19.8 | 116 | 99 | 74-125 | 16 | 20 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 22.3 | 19.7 | 111 | 98 | 75-125 | 12 | 20 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | 20 | 20.0 | 19.9 | 100 | 99 | 56-133 | .6 | 20 | |
| 1,1-Dichloroethane | ug/L | 20 | 22.5 | 20.3 | 112 | 102 | 75-125 | 10 | 20 | |
| 1,1-Dichloroethene | ug/L | 20 | 22.4 | 20.1 | 112 | 101 | 70-125 | 11 | 20 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 23.9 | 19.8 | 119 | 99 | 75-125 | 19 | 20 | |
| 1,2,4-Trimethylbenzene | ug/L | 20 | 22.3 | 19.4 | 112 | 97 | 75-125 | 14 | 20 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 59.9 | 52.4 | 120 | 105 | 70-125 | 13 | 20 | |
| 1,2-Dibromoethane (EDB) | ug/L | 20 | 23.6 | 21.1 | 118 | 106 | 75-125 | 11 | 20 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 22.3 | 19.1 | 111 | 95 | 75-125 | 15 | 20 | |
| 1,2-Dichloroethane | ug/L | 20 | 23.0 | 20.2 | 115 | 101 | 75-125 | 13 | 20 | |
| 1,2-Dichloropropane | ug/L | 20 | 23.2 | 20.1 | 116 | 100 | 75-125 | 15 | 20 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 21.0 | 18.6 | 105 | 93 | 75-125 | 12 | 20 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | 400 | 454 | 411 | 114 | 103 | 73-128 | 10 | 20 | |
| 2-Butanone (MEK) | ug/L | 100 | 145 | 123 | 145 | 123 | 64-126 | 17 | 20 | CH,L0 |
| 2-Hexanone | ug/L | 100 | 142 | 117 | 142 | 117 | 69-127 | 19 | 20 | CH,L0 |
| 2-Propanol | ug/L | 200 | 228 | 197 | 114 | 98 | 57-132 | 15 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 134 | 111 | 134 | 111 | 71-125 | 19 | 20 | L0 |
| Acetone | ug/L | 100 | 118 | 108 | 118 | 108 | 66-131 | 9 | 20 | |
| Acrylonitrile | ug/L | 200 | 263 | 226 | 132 | 113 | 68-127 | 15 | 20 | L0 |
| Benzene | ug/L | 20 | 22.9 | 20.3 | 115 | 101 | 75-125 | 12 | 20 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| LABORATORY CONTROL SAMPLE & LCSD: 1653041 | | 1653248 | | | | | | | | | |
|---|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|--|
| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers | |
| Bromochloromethane | ug/L | 20 | 21.6 | 18.8 | 108 | 94 | 75-125 | 14 | 20 | | |
| Bromodichloromethane | ug/L | 20 | 24.1 | 21.3 | 121 | 106 | 75-125 | 13 | 20 | | |
| Bromoform | ug/L | 20 | 22.5 | 19.6 | 112 | 98 | 70-125 | 14 | 20 | | |
| Bromomethane | ug/L | 20 | 8.1 | 10.7 | 40 | 53 | 30-150 | 28 | 20 | CL,R1 | |
| Carbon disulfide | ug/L | 20 | 24.0 | 21.6 | 120 | 108 | 60-125 | 11 | 20 | | |
| Carbon tetrachloride | ug/L | 20 | 24.3 | 20.6 | 122 | 103 | 68-129 | 16 | 20 | | |
| Chlorobenzene | ug/L | 20 | 21.0 | 18.5 | 105 | 92 | 75-125 | 13 | 20 | | |
| Chloroethane | ug/L | 20 | 22.0 | 20.8 | 110 | 104 | 68-133 | 6 | 20 | | |
| Chloroform | ug/L | 20 | 23.5 | 20.8 | 117 | 104 | 75-125 | 12 | 20 | | |
| Chloromethane | ug/L | 20 | 19.9 | 18.4 | 100 | 92 | 57-140 | 8 | 20 | | |
| cis-1,2-Dichloroethene | ug/L | 20 | 21.9 | 20.0 | 110 | 100 | 75-125 | 9 | 20 | | |
| cis-1,3-Dichloropropene | ug/L | 20 | 23.3 | 20.7 | 117 | 103 | 75-125 | 12 | 20 | | |
| Cyclohexane | ug/L | 100 | 105 | 99.8 | 105 | 100 | 57-127 | 5 | 20 | | |
| Dibromochloromethane | ug/L | 20 | 22.9 | 20.4 | 114 | 102 | 75-125 | 11 | 20 | | |
| Dibromomethane | ug/L | 20 | 22.7 | 20.4 | 113 | 102 | 75-125 | 10 | 20 | | |
| Dichlorodifluoromethane | ug/L | 20 | 18.2 | 18.9 | 91 | 94 | 50-134 | 4 | 20 | | |
| Ethylbenzene | ug/L | 20 | 21.8 | 19.5 | 109 | 97 | 75-125 | 12 | 20 | | |
| Iodomethane | ug/L | 20 | 10.9 | 11.6 | 55 | 58 | 30-150 | 6 | 20 | CL | |
| Isopropylbenzene (Cumene) | ug/L | 20 | 23.0 | 20.1 | 115 | 100 | 73-125 | 14 | 20 | | |
| Methyl-tert-butyl ether | ug/L | 20 | 22.5 | 20.1 | 112 | 101 | 75-125 | 11 | 20 | | |
| Methylene Chloride | ug/L | 20 | 21.8 | 19.8 | 109 | 99 | 75-125 | 9 | 20 | | |
| n-Hexane | ug/L | 50 | 38.3 | 44.4 | 77 | 89 | 30-150 | 15 | 20 | | |
| n-Propylbenzene | ug/L | 20 | 22.3 | 19.3 | 112 | 97 | 72-125 | 14 | 20 | | |
| Styrene | ug/L | 20 | 23.5 | 20.5 | 117 | 102 | 75-125 | 14 | 20 | | |
| Tetrachloroethene | ug/L | 20 | 22.2 | 19.5 | 111 | 98 | 71-125 | 13 | 20 | | |
| Tetrahydrofuran | ug/L | 200 | 230 | 203 | 115 | 102 | 70-125 | 13 | 20 | | |
| Toluene | ug/L | 20 | 20.6 | 18.2 | 103 | 91 | 75-125 | 13 | 20 | | |
| trans-1,2-Dichloroethene | ug/L | 20 | 22.9 | 20.6 | 115 | 103 | 73-125 | 11 | 20 | | |
| trans-1,3-Dichloropropene | ug/L | 20 | 22.5 | 20.0 | 113 | 100 | 75-125 | 12 | 20 | | |
| trans-1,4-Dichloro-2-butene | ug/L | 50 | 70.4 | 60.7 | 141 | 121 | 63-127 | 15 | 20 | CH,L0 | |
| Trichloroethene | ug/L | 20 | 21.4 | 19.2 | 107 | 96 | 75-125 | 11 | 20 | | |
| Trichlorofluoromethane | ug/L | 20 | 23.6 | 22.5 | 118 | 112 | 70-128 | 5 | 20 | | |
| Vinyl acetate | ug/L | 20 | 25.3 | 22.2 | 126 | 111 | 59-131 | 13 | 20 | | |
| Vinyl chloride | ug/L | 20 | 23.0 | 21.5 | 115 | 108 | 70-130 | 7 | 20 | | |
| Xylene (Total) | ug/L | 60 | 65.4 | 57.2 | 109 | 95 | 75-125 | 13 | 20 | | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 106 | 105 | 75-125 | | | | |
| 4-Bromofluorobenzene (S) | % | | | | 101 | 103 | 75-125 | | | | |
| Toluene-d8 (S) | % | | | | 99 | 98 | 75-125 | | | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

QC Batch: MT/15294

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 10261823003, 10261823004, 10261823005, 10261823013, 10261823014, 10261823015, 10261823019

METHOD BLANK: 1651557

Matrix: Water

Associated Lab Samples: 10261823003, 10261823004, 10261823005, 10261823013, 10261823014, 10261823015, 10261823019

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride | mg/L | <0.50 | 1.0 | 04/08/14 19:55 | |
| Sulfate | mg/L | <0.50 | 1.0 | 04/08/14 19:55 | |

LABORATORY CONTROL SAMPLE: 1651558

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 10 | 9.3 | 93 | 90-110 | |
| Sulfate | mg/L | 10 | 10.2 | 102 | 90-110 | |

MATRIX SPIKE SAMPLE: 1651560

| Parameter | Units | 10261654001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride | mg/L | <1.0 | 10 | 9.5 | 88 | 90-110 | M1 |
| Sulfate | mg/L | <5.0 | 10 | 11.0 | 98 | 90-110 | |

MATRIX SPIKE SAMPLE: 1651953

| Parameter | Units | 10261823013 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride | mg/L | 23.5 | 10 | 33.9 | 104 | 90-110 | |
| Sulfate | mg/L | 22.2 | 10 | 32.4 | 101 | 90-110 | |

SAMPLE DUPLICATE: 1651562

| Parameter | Units | 10261654002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|---------|------------|
| Chloride | mg/L | <1.0 | 0.71J | | 20 | |
| Sulfate | mg/L | <5.0 | 2.4 | .09 | 20 | |

SAMPLE DUPLICATE: 1651954

| Parameter | Units | 10261823015 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|---------|------------|
| Chloride | mg/L | 69.7 | 69.8 | .3 | 20 | |
| Sulfate | mg/L | 81.3 | 81.6 | .3 | 20 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

QC Batch: MT/15308

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 10261823006, 10261823007, 10261823008, 10261823009, 10261823011, 10261823012, 10261823016, 10261823017, 10261823018, 10261823020, 10261823023

METHOD BLANK: 1653145

Matrix: Water

Associated Lab Samples: 10261823006, 10261823007, 10261823008, 10261823009, 10261823011, 10261823012, 10261823016, 10261823017, 10261823018, 10261823020, 10261823023

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride | mg/L | <0.50 | 1.0 | 04/09/14 19:00 | |
| Sulfate | mg/L | <0.50 | 1.0 | 04/09/14 19:00 | |

LABORATORY CONTROL SAMPLE: 1653146

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 10 | 9.2 | 92 | 90-110 | |
| Sulfate | mg/L | 10 | 9.8 | 98 | 90-110 | |

MATRIX SPIKE SAMPLE: 1653159

| Parameter | Units | 10261823007 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride | mg/L | 5.2 | 10 | 14.8 | 95 | 90-110 | |
| Sulfate | mg/L | 6.8 | 10 | 16.7 | 99 | 90-110 | |

MATRIX SPIKE SAMPLE: 1653161

| Parameter | Units | 10261823011 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride | mg/L | 4.2 | 10 | 13.7 | 95 | 90-110 | |
| Sulfate | mg/L | 13.5 | 10 | 23.9 | 104 | 90-110 | |

SAMPLE DUPLICATE: 1653160

| Parameter | Units | 10261823009 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|---------|------------|
| Chloride | mg/L | 18.5 | 18.2 | 1 | 20 | |
| Sulfate | mg/L | 14.8 | 14.6 | 1 | 20 | |

SAMPLE DUPLICATE: 1653162

| Parameter | Units | 10261823016 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|---------|------------|
| Chloride | mg/L | 5.2 | 5.2 | .3 | 20 | |
| Sulfate | mg/L | 19.4 | 19.4 | .2 | 20 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

QC Batch: WET/34868 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Associated Lab Samples: 10261823013, 10261823015, 10261823019

METHOD BLANK: 1648305 Matrix: Water

Associated Lab Samples: 10261823013, 10261823015, 10261823019

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | <2.5 | 5.0 | 04/03/14 12:13 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | <2.5 | 5.0 | 04/03/14 12:13 | |

LABORATORY CONTROL SAMPLE & LCSD: 1648306 1648307

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 40 | 41.6 | 41.5 | 104 | 104 | 90-110 | .2 | 30 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1648308 1648309

| Parameter | Units | 10261529008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 254 | 40 | 40 | 295 | 299 | 103 | 113 | 80-120 | 1 | 30 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1648310 1648311

| Parameter | Units | 10261640006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 208 | 40 | 40 | 253 | 252 | 111 | 108 | 80-120 | .4 | 30 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF
Pace Project No.: 10261823

QC Batch: WET/34908 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 10261823003, 10261823004, 10261823005, 10261823006, 10261823007, 10261823008, 10261823009, 10261823011, 10261823012, 10261823014, 10261823016, 10261823017, 10261823018, 10261823020, 10261823023

METHOD BLANK: 1650456 Matrix: Water
Associated Lab Samples: 10261823003, 10261823004, 10261823005, 10261823006, 10261823007, 10261823008, 10261823009, 10261823011, 10261823012, 10261823014, 10261823016, 10261823017, 10261823018, 10261823020, 10261823023

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | <2.5 | 5.0 | 04/04/14 09:21 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | <2.5 | 5.0 | 04/04/14 09:21 | |

LABORATORY CONTROL SAMPLE & LCSD: 1650457 1650458

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 40 | 41.3 | 41.0 | 103 | 102 | 90-110 | .6 | 30 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1650459 1650460

| Parameter | Units | 10261823003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 498 | 40 | 40 | 553 | 551 | 136 | 133 | 80-120 | .2 | 30 | M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1650461 1650462

| Parameter | Units | 10261909004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 48.1 | 40 | 40 | 85.4 | 81.5 | 93 | 84 | 80-120 | 5 | 30 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

QC Batch: WET/35408 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Associated Lab Samples: 10261823017, 10261823023

METHOD BLANK: 1673483 Matrix: Water

Associated Lab Samples: 10261823017, 10261823023

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | <2.5 | 5.0 | 05/07/14 07:54 | |

LABORATORY CONTROL SAMPLE & LCSD: 1673484 1673485

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 40 | 41.2 | 41.5 | 103 | 104 | 90-110 | .7 | 30 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1673486 1673487

| Parameter | Units | 10265329038 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 66.4 | 40 | 40 | 105 | 107 | 97 | 101 | 80-120 | 1 | 30 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1673488 1673489

| Parameter | Units | 10265329052 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 56.6 | 40 | 40 | 96.1 | 97.3 | 99 | 102 | 80-120 | 1 | 30 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-10 **Lab ID: 10261823008** Collected: 03/27/14 12:00 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|--------------------------------|-------|----------------|------------|------|
| Tritium | EPA 906.0 | -7.23 ± 127 (224) C:NA T:NA | pCi/L | 04/07/14 06:12 | 10028-17-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-12 **Lab ID: 10261823009** Collected: 03/27/14 10:25 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|--|-------|----------------|------------|------|
| Tritium | EPA 906.0 | -44.5 ± 123 (223) C:NA T:NA | pCi/L | 04/10/14 20:07 | 10028-17-8 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-15 **Lab ID: 10261823011** Collected: 03/27/14 17:45 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|---------------------------------------|-------|----------------|------------|------|
| Tritium | EPA 906.0 | 0.000 ± 134 (236) C:NA T:NA | pCi/L | 04/10/14 21:09 | 10028-17-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-17 **Lab ID: 10261823013** Collected: 03/25/14 16:48 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|---|-------|----------------|------------|------|
| Tritium | EPA 906.0 | -104 ± 123 (228) C:NA T:NA | pCi/L | 04/10/14 22:10 | 10028-17-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-19 **Lab ID: 10261823014** Collected: 03/26/14 08:55 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|--------------------------------|-------|----------------|------------|------|
| Tritium | EPA 906.0 | -72.6 ± 115 (211) C:NA T:NA | pCi/L | 04/10/14 23:11 | 10028-17-8 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-20 **Lab ID: 10261823015** Collected: 03/25/14 15:40 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|--------------------------------------|-------|----------------|------------|------|
| Tritium | EPA 906.0 | 87.7 ± 127 (213) C:NA T:NA | pCi/L | 04/11/14 00:12 | 10028-17-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-21 **Lab ID: 10261823016** Collected: 03/28/14 09:20 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|--|-------|----------------|------------|------|
| Tritium | EPA 906.0 | -60.5 ± 120 (218) C:NA T:NA | pCi/L | 04/11/14 01:14 | 10028-17-8 | |

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-22 **Lab ID: 10261823017** Collected: 03/27/14 15:12 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|--|-------|----------------|------------|------|
| Tritium | EPA 906.0 | -51.3 ± 128 (231) C:NA T:NA | pCi/L | 04/11/14 02:15 | 10028-17-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-23 **Lab ID: 10261823018** Collected: 03/27/14 16:10 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|--|-------|----------------|------------|------|
| Tritium | EPA 906.0 | -98.5 ± 126 (233) C:NA T:NA | pCi/L | 04/11/14 03:16 | 10028-17-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-24 **Lab ID: 10261823019** Collected: 03/25/14 14:15 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|-------------------------------|-------|----------------|------------|------|
| Tritium | EPA 906.0 | -146 ± 124 (234) C:NA T:NA | pCi/L | 04/11/14 04:18 | 10028-17-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: MW-26 **Lab ID: 10261823020** Collected: 03/27/14 14:15 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|---------------------------------------|-------|----------------|------------|------|
| Tritium | EPA 906.0 | -54.0 ± 128 (232) C:NA T:NA | pCi/L | 04/11/14 05:19 | 10028-17-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

Sample: DUP-1 **Lab ID: 10261823023** Collected: 03/27/14 08:00 Received: 03/29/14 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|---------------------------------------|-------|----------------|------------|------|
| Tritium | EPA 906.0 | -51.6 ± 129 (232) C:NA T:NA | pCi/L | 04/11/14 06:20 | 10028-17-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| | | | |
|-------------------------|---|-----------------------|---------------|
| QC Batch: | RADC/19267 | Analysis Method: | EPA 906.0 |
| QC Batch Method: | EPA 906.0 | Analysis Description: | 906.0 Tritium |
| Associated Lab Samples: | 10261823009, 10261823011, 10261823013, 10261823014, 10261823015, 10261823016, 10261823017, 10261823018, 10261823019, 10261823020, 10261823023 | | |

METHOD BLANK: 713117 Matrix: Water

Associated Lab Samples:

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|-----------|-----------------------------|-------|----------------|------------|
| Tritium | -47.2 ± 117 (213) C:NA T:NA | pCi/L | 04/10/14 19:06 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| | | | |
|-------------------------|-------------|-----------------------|---------------|
| QC Batch: | RADC/19195 | Analysis Method: | EPA 906.0 |
| QC Batch Method: | EPA 906.0 | Analysis Description: | 906.0 Tritium |
| Associated Lab Samples: | 10261823008 | | |

METHOD BLANK: 710342 Matrix: Water

Associated Lab Samples:

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|-----------|-----------------------------|-------|----------------|------------|
| Tritium | -33.4 ± 134 (239) C:NA T:NA | pCi/L | 04/06/14 13:53 | |

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 114-710303A.700 Bozeman LF
Pace Project No.: 10261823

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

PASI-MT Pace Analytical Services - Montana

PASI-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: MSV/26752

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1M Post-analysis pH measurement indicates insufficient VOA sample preservation. Therefore, analysis was conducted outside the recognized method holding time.

2M Sample had a high amount of sediment. Reported result is the analysis of the supernatant after the sediment was allowed to settle out. Results may be biased.

C0 Result confirmed by second analysis.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

ANALYTE QUALIFIERS

| | |
|----|---|
| CL | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low. |
| H1 | Analysis conducted outside the recognized method holding time. |
| L0 | Analyte recovery in the laboratory control sample (LCS) was outside QC limits. |
| L3 | Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| R1 | RPD value was outside control limits. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------------|-----------------|------------|-------------------|------------------|
| 10261823005 | MW-6B | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823008 | MW-10 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823009 | MW-12 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823011 | MW-15 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823013 | MW-17 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823014 | MW-19 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823015 | MW-20 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823016 | MW-21 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823017 | MW-22 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823018 | MW-23 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823019 | MW-24 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823020 | MW-26 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823023 | DUP-1 | EPA 3020 | MPRP/44951 | EPA 6020 | ICPM/19561 |
| 10261823003 | MW-4 | EPA 3020 | MPRP/45056 | EPA 6020 | ICPM/19563 |
| 10261823004 | MW-6 | EPA 3020 | MPRP/45056 | EPA 6020 | ICPM/19563 |
| 10261823006 | MW-8A | EPA 3020 | MPRP/45056 | EPA 6020 | ICPM/19563 |
| 10261823007 | MW-8C | EPA 3020 | MPRP/45056 | EPA 6020 | ICPM/19563 |
| 10261823012 | MW-16 | EPA 3020 | MPRP/45056 | EPA 6020 | ICPM/19563 |
| 10261823001 | LF-2 | EPA 8260B | MSV/26732 | | |
| 10261823002 | LF-3 | EPA 8260B | MSV/26732 | | |
| 10261823003 | MW-4 | EPA 8260B | MSV/26732 | | |
| 10261823006 | MW-8A | EPA 8260B | MSV/26732 | | |
| 10261823008 | MW-10 | EPA 8260B | MSV/26732 | | |
| 10261823009 | MW-12 | EPA 8260B | MSV/26732 | | |
| 10261823010 | MW-13 | EPA 8260B | MSV/26732 | | |
| 10261823011 | MW-15 | EPA 8260B | MSV/26732 | | |
| 10261823013 | MW-17 | EPA 8260B | MSV/26752 | | |
| 10261823014 | MW-19 | EPA 8260B | MSV/26732 | | |
| 10261823015 | MW-20 | EPA 8260B | MSV/26752 | | |
| 10261823016 | MW-21 | EPA 8260B | MSV/26732 | | |
| 10261823017 | MW-22 | EPA 8260B | MSV/26732 | | |
| 10261823018 | MW-23 | EPA 8260B | MSV/26732 | | |
| 10261823019 | MW-24 | EPA 8260B | MSV/26752 | | |
| 10261823020 | MW-26 | EPA 8260B | MSV/26732 | | |
| 10261823021 | MCILHATTEN SEEP | EPA 8260B | MSV/26732 | | |
| 10261823022 | TRIP BLANK | EPA 8260B | MSV/26732 | | |
| 10261823023 | DUP-1 | EPA 8260B | MSV/26732 | | |
| 10261823003 | MW-4 | EPA 300.0 | MT/15294 | | |
| 10261823004 | MW-6 | EPA 300.0 | MT/15294 | | |
| 10261823005 | MW-6B | EPA 300.0 | MT/15294 | | |
| 10261823006 | MW-8A | EPA 300.0 | MT/15308 | | |
| 10261823007 | MW-8C | EPA 300.0 | MT/15308 | | |
| 10261823008 | MW-10 | EPA 300.0 | MT/15308 | | |
| 10261823009 | MW-12 | EPA 300.0 | MT/15308 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|------------|-------------------|------------------|
| 10261823011 | MW-15 | EPA 300.0 | MT/15308 | | |
| 10261823012 | MW-16 | EPA 300.0 | MT/15308 | | |
| 10261823013 | MW-17 | EPA 300.0 | MT/15294 | | |
| 10261823014 | MW-19 | EPA 300.0 | MT/15294 | | |
| 10261823015 | MW-20 | EPA 300.0 | MT/15294 | | |
| 10261823016 | MW-21 | EPA 300.0 | MT/15308 | | |
| 10261823017 | MW-22 | EPA 300.0 | MT/15308 | | |
| 10261823018 | MW-23 | EPA 300.0 | MT/15308 | | |
| 10261823019 | MW-24 | EPA 300.0 | MT/15294 | | |
| 10261823020 | MW-26 | EPA 300.0 | MT/15308 | | |
| 10261823023 | DUP-1 | EPA 300.0 | MT/15308 | | |
| 10261823008 | MW-10 | EPA 906.0 | RADC/19195 | | |
| 10261823009 | MW-12 | EPA 906.0 | RADC/19267 | | |
| 10261823011 | MW-15 | EPA 906.0 | RADC/19267 | | |
| 10261823013 | MW-17 | EPA 906.0 | RADC/19267 | | |
| 10261823014 | MW-19 | EPA 906.0 | RADC/19267 | | |
| 10261823015 | MW-20 | EPA 906.0 | RADC/19267 | | |
| 10261823016 | MW-21 | EPA 906.0 | RADC/19267 | | |
| 10261823017 | MW-22 | EPA 906.0 | RADC/19267 | | |
| 10261823018 | MW-23 | EPA 906.0 | RADC/19267 | | |
| 10261823019 | MW-24 | EPA 906.0 | RADC/19267 | | |
| 10261823020 | MW-26 | EPA 906.0 | RADC/19267 | | |
| 10261823023 | DUP-1 | EPA 906.0 | RADC/19267 | | |
| 10261823003 | MW-4 | SM 2320B | WET/34908 | | |
| 10261823004 | MW-6 | SM 2320B | WET/34908 | | |
| 10261823005 | MW-6B | SM 2320B | WET/34908 | | |
| 10261823006 | MW-8A | SM 2320B | WET/34908 | | |
| 10261823007 | MW-8C | SM 2320B | WET/34908 | | |
| 10261823008 | MW-10 | SM 2320B | WET/34908 | | |
| 10261823009 | MW-12 | SM 2320B | WET/34908 | | |
| 10261823011 | MW-15 | SM 2320B | WET/34908 | | |
| 10261823012 | MW-16 | SM 2320B | WET/34908 | | |
| 10261823013 | MW-17 | SM 2320B | WET/34868 | | |
| 10261823014 | MW-19 | SM 2320B | WET/34908 | | |
| 10261823015 | MW-20 | SM 2320B | WET/34868 | | |
| 10261823016 | MW-21 | SM 2320B | WET/34908 | | |
| 10261823017 | MW-22 | SM 2320B | WET/34908 | | |
| 10261823017 | MW-22 | SM 2320B | WET/35408 | | |
| 10261823018 | MW-23 | SM 2320B | WET/34908 | | |
| 10261823019 | MW-24 | SM 2320B | WET/34868 | | |
| 10261823020 | MW-26 | SM 2320B | WET/34908 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 114-710303A.700 Bozeman LF

Pace Project No.: 10261823

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---------------|------------------|------------------------|-----------------|--------------------------|-------------------------|
| 10261823023 | DUP-1 | SM 2320B | WET/34908 | | |
| 10261823023 | DUP-1 | SM 2320B | WET/35408 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A
Required Client Information:
 Company: TRINA TECH
 Address: 851 BRIDGER DR
 Site: 10 BOWMAN MT
 Email To: MARK BASS, Operations Mgr
 Phone: 406-554-5920 (Fax: _____)
 Requested Due Date (A/T): _____

Section B
Required Project Information:
 Report To: _____
 Copy To: _____
 Purchase Order No.: _____
 Project Name: FOREMAN-LANDFILL
 Project Number: 114-710303A, 7112

Section C
Invoice Information:
 Attention: MURAL PARSON
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: Sumantha Pope
 Pace Profile #: _____

REGULATORY AGENCY:
 NPDES GROUND WATER RCRA OTHER
 Site Location: MT
 STATE: MT

Page: 1 of 3
 Invoice No: 1728860
 Regulatory Agency: _____
 NPDES GROUND WATER DRINKING WATER

| ITEM # | Section D Required Client Information | Matrix Codes MATRIX / CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | W/N | Requested Analysis Filtered (Y/N) | Pace Project No / Lab I.D. |
|---|--|-------------------------------|-----------------------------|-----------------|--------------------|---------------------------|-----------------|---------------|-----|-----------------------------------|----------------------------|
| | | | | COMPOSITE START | COMPOSITE END/GRAB | | | | | | |
| 1 | <u>LF-2</u> | Drinking Water WW P | 3/27 1255 | | | 3 | | | | See Attached | 10261823 |
| 2 | <u>LF-3</u> | Water Product | 3/28 1500 | | | 3 | | | | See Attached | |
| 3 | <u>MW-4</u> | SL OL | 3/28 1525 | | | 6 | | | | See Attached | |
| 4 | <u>MW-5</u> | Oil Wipe AR | 3/26 1225 | | | 3 | | | | See Attached | |
| 5 | <u>MW-6</u> | Wipe TS | 3/26 1210 | | | 3 | | | | See Attached | |
| 6 | <u>MW-6B</u> | Other | 3/27 910 | | | 6 | | | | See Attached | |
| 7 | <u>MW-7</u> | | 3/27 920 | | | 3 | | | | See Attached | |
| 8 | <u>MW-8A</u> | | 3/27 1210 | | | 8 | | | | See Attached | |
| 9 | <u>MW-8C</u> | | | | | | | | | | |
| 10 | <u>MW-10</u> | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| ADDITIONAL COMMENTS: <u>All samples shipped in 2 coolers</u> RELINQUISHED BY / AFFILIATION: <u>TRINA TECH</u> DATE: <u>3/28/14</u> TIME: <u>1400</u> ACCEPTED BY / AFFILIATION: <u>JPF</u> DATE: <u>3/28/14 18:30</u> TIME: <u>18:30</u> Temp in °C: <u>0.2</u> Received on: <u>3/28/14</u> (Y/N): <u>Y</u> Sealed/Cooled (Y/N): <u>Y</u> Custody (Y/N): <u>Y</u> Samples Intact (Y/N): <u>Y</u> | | | | | | | | | | | |

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A
 Required Client Information:
 Company: TERESA TELIX
 Address: 351 Beldavia Dr. Ste. 6
BREWMAN, VT 5715
 Email To: mark.pearson@terelix.com
 Phone: 802-8780 Fax:
 Requested Due Date/AT: _____

Section B
 Required Project Information:
 Report To: _____
 Copy To: _____
 Purchase Order No.: _____
 Project Name: BREWMAN WAREHOUSE
 Project Number: 114-110303A-700

Section C
 Invoice Information:
 Attention: Mark Pearson
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: Samuel R. Pope
 Pace Profile #: _____

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____

Site Location: _____
 STATE: VT

Page: 2 of 3
 1728861

| ITEM # | Section D Required Client Information | Matrix Codes MATRIX / CODE | SAMPLE TYPE (G-GRAB C-COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Requested Analysis Filtered (Y/N) | DATE | TIME | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | |
|--------|--|-------------------------------|-----------------------------|-----------------|--------------------|---------------------------|-----------------|---|-----------------------------------|------|------|------|------|---------------------------|------|------|-------------------|--|
| | | | | COMPOSITE START | COMPOSITE END/GRAB | | | | | | | | | | | | | |
| 1 | MW-12 | DW | G-GRAB | 3/27 | 1055 | | 3 | Unpreserved | | | | | | | | | | |
| 2 | MW-13 | WT | G-GRAB | 3/28 | 1512 | | 3 | H ₂ SO ₄ | | | | | | | | | | |
| 3 | MW-15 | WW | G-GRAB | 3/28 | 1745 | | 3 | HNO ₃ | | | | | | | | | | |
| 4 | MW-10 | P | G-GRAB | 3/26 | 1030 | | 3 | NaOH | | | | | | | | | | |
| 5 | MW-17 | SL | G-GRAB | 3/25 | 1642 | | 3 | HCl | | | | | | | | | | |
| 6 | MW-19 | OL | G-GRAB | 3/26 | 0555 | | 3 | Na ₂ S ₂ O ₈ | | | | | | | | | | |
| 7 | MW-20 | WP | G-GRAB | 3/25 | 1530 | | 3 | Methanol | | | | | | | | | | |
| 8 | MW-21 | AR | G-GRAB | 3/28 | 0920 | | 3 | Other | | | | | | | | | | |
| 9 | MW-22 | TS | G-GRAB | 3/27 | 1512 | | 3 | | | | | | | | | | | |
| 10 | MW-23 | OT | G-GRAB | 3/27 | 1010 | | 3 | | | | | | | | | | | |
| 11 | MW-24 | | G-GRAB | 3/25 | 1415 | | 3 | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |

ADDITIONAL COMMENTS
All samples shipped in 6 coolers

RELINQUISHED BY / AFFILIATION
D. Quinlan
3/29/14 1400

ACCEPTED BY / AFFILIATION
Bob Pope
3/29/14 1230

Temp in °C
0.2
0.4
0.0
0.4

Received on
 Ice (Y/N)
 Sealed Cooler (Y/N)
 Custody (Y/N)
 Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Brooks Quinlan
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YYYY): 3/29/14


ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.
 F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Client Name: Tetra Tech Project #: WO# : 10261823

WO# : 10261823



10261823

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: See SCUR Exception form

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermometer Used: 1383045 135 NA Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read: See SCUR Exception form Date and Initials of Person Examining Contents: MT 3/29/14

Cooler Temp Corrected: _____ Biological Tissue Frozen? Yes No

Temp should be above freezing to 6°C Comments:

| | | |
|---|---|--|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name and Signature on COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72 hr)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered Volume Received for Dissolved Tests? | <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 11. <u>full volume filtered - see below</u> |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes Date/Time/ID/Analysis Matrix: <u>H₂O</u> | | |
| All containers needing acid/base preservation have been checked? Noncompliances are noted in 13. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl |
| All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sample # |
| Exceptions: <u>VOA Coliform, TOC, Oil and Grease, WI-DRO (water)</u> <u>MT 3/18/14</u> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Initial when completed: _____ Lot # of added preservative: _____ |
| Samples checked for dechlorination? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 15. |
| Trip Blank Present? <u>lot: 02031438UF</u> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 16. <u>See SCUR Exception form for which TRB arrived with which cooler.</u> |
| Trip Blank Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: (1) Date/Time: _____

Comments/Resolution: MW4, MW16, MW8A, MW8C & MW16 will need to be filtered & piped at lab

① MW16 was containers for a full set but only logged in what was at the COC

② MW17 - 1-home trial broken at lab

Project Manager Review: [Signature] Date: 3-31-14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:
SCUR Exceptions Form

Document Revised: 16Apr2012
Page 1 of 1

Document No.:
F-MN-L-220-Rev.00

Issuing Authority:
Pace Minnesota Quality Office

Workorder #: _____

| Issue | | Sample ID | Container Type/# |
|--|-----|--|---|
| 7983-7492-1766 | 0.2 | MW-22, MW-4, MW-6B MW-20 | CS, TB, TRB 117712 > Trip Blank 117713 container #'s |
| -1685 | 0.4 | MW-12, MW-19, MW-21 | CS, TB |
| -1505 | 0.0 | MW-8A, MW-23, ^{DUP-1} 8 _{5/22/14} MW-13, LF-2, LF-3 | CS, TB |
| -1891 | 0.4 | MW-26, MW-10, ^{MW-8C} MW-8 _{5/22/14} MW-22, MW-16 Mcilmattan Seep | CS, TB, TRB 117711 > Trip Blank 117710 container #'s |
| -2063 | 1.2 | MW-17, MW-24, MW-21 | TB, CS |
| -1593 | 0.3 | MW-15, MW-10, MW-6 MW-6B | CS, TB |
| CS - custody sealed, TB - Temp Blank, TRB - Trip Blank | | | |



ANALYTICAL RESULTS

Project: 114-710326 Bozeman Landfill

Pace Project No.: 10253154

| | |
|--|---------------|
| | Matrix: Water |
|--|---------------|

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------|---------|-------|-----|-----|----|----------|----------|---------|------|
| [Empty table body] | | | | | | | | | |

8260B MSV Low Level

Analytical Method: EPA 8260B

| | | | | | | | | | |
|-----------------------------|-------------|--|------|-------|---|--|----------------|----------|--|
| Acetone | <10.0 ug/L | | 20.0 | 10.0 | 1 | | 12/26/13 14:32 | 67-64-1 | |
| Acrylonitrile | <5.0 ug/L | | 10.0 | 5.0 | 1 | | 12/26/13 14:32 | 107-13-1 | |
| Benzene | <0.24 ug/L | | 0.50 | 0.24 | 1 | | 12/26/13 14:32 | 71-43-2 | |
| Bromochloromethane | <0.50 ug/L | | 1.0 | 0.50 | 1 | | 12/26/13 14:32 | 74-97-5 | |
| Bromodichloromethane | <0.18 ug/L | | 1.0 | 0.18 | 1 | | 12/26/13 14:32 | 75-27-4 | |
| Bromoform | <2.0 ug/L | | 4.0 | 2.0 | 1 | | 12/26/13 14:32 | 75-25-2 | |
| Bromomethane | <2.0 ug/L | | 4.0 | 2.0 | 1 | | 12/26/13 14:32 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 ug/L | | 5.0 | 2.5 | 1 | | 12/26/13 14:32 | 78-93-3 | |
| Carbon disulfide | <0.22 ug/L | | 1.0 | 0.22 | 1 | | 12/26/13 14:32 | 75-15-0 | |
| Carbon tetrachloride | <0.31 ug/L | | 1.0 | 0.31 | 1 | | 12/26/13 14:32 | 56-23-5 | |
| Chlorobenzene | <0.24 ug/L | | 0.50 | 0.24 | 1 | | 12/26/13 14:32 | 108-90-7 | |
| Chloroethane | <0.50 ug/L | | 1.0 | 0.50 | 1 | | 12/26/13 14:32 | 75-00-3 | |
| Chloroform | <0.50 ug/L | | 0.50 | 0.50 | 1 | | 12/26/13 14:32 | 67-66-3 | |
| Chloromethane | <0.50 ug/L | | 4.0 | 0.50 | 1 | | 12/26/13 14:32 | 74-87-3 | |
| Cyclohexane | <2.5 ug/L | | 5.0 | 2.5 | 1 | | 12/26/13 14:32 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 ug/L | | 4.0 | 2.0 | 1 | | 12/26/13 14:32 | 96-12-8 | |
| Dibromochloromethane | <0.25 ug/L | | 1.0 | 0.25 | 1 | | 12/26/13 14:32 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.13 ug/L | | 0.50 | 0.13 | 1 | | 12/26/13 14:32 | 106-93-4 | |
| Dibromomethane | <0.25 ug/L | | 0.50 | 0.25 | 1 | | 12/26/13 14:32 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.092 ug/L | | 0.50 | 0.092 | 1 | | 12/26/13 14:32 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 ug/L | | 0.50 | 0.25 | 1 | | 12/26/13 14:32 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 ug/L | | 10.0 | 5.0 | 1 | | 12/26/13 14:32 | 110-57-6 | |
| Dichlorodifluoromethane | <0.40 ug/L | | 1.0 | 0.40 | 1 | | 12/26/13 14:32 | 75-71-8 | |
| 1,1-Dichloroethane | <0.25 ug/L | | 0.50 | 0.25 | 1 | | 12/26/13 14:32 | 75-34-3 | |
| 1,2-Dichloroethane | <0.21 ug/L | | 0.50 | 0.21 | 1 | | 12/26/13 14:32 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 ug/L | | 0.50 | 0.24 | 1 | | 12/26/13 14:32 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.23 ug/L | | 0.50 | 0.23 | 1 | | 12/26/13 14:32 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.21 ug/L | | 0.50 | 0.21 | 1 | | 12/26/13 14:32 | 156-60-5 | |
| 1,2-Dichloropropane | <0.20 ug/L | | 4.0 | 0.20 | 1 | | 12/26/13 14:32 | 78-87-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710326 Bozeman Landfill

Pace Project No.: 10253154

Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|------------|------------------------------|--------|------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| cis-1,3-Dichloropropene | <0.42 ug/L | | 1.0 | 0.42 | 1 | | 12/26/13 14:32 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.25 ug/L | | 1.0 | 0.25 | 1 | | 12/26/13 14:32 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <21.4 ug/L | | 200 | 21.4 | 1 | | 12/26/13 14:32 | 123-91-1 | |
| Ethylbenzene | <0.21 ug/L | | 0.50 | 0.21 | 1 | | 12/26/13 14:32 | 100-41-4 | |
| n-Hexane | <5.0 ug/L | | 10.0 | 5.0 | 1 | | 12/26/13 14:32 | 110-54-3 | |
| 2-Hexanone | <2.5 ug/L | | 5.0 | 2.5 | 1 | | 12/26/13 14:32 | 591-78-6 | |
| Iodomethane | <2.0 ug/L | | 4.0 | 2.0 | 1 | | 12/26/13 14:32 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.12 ug/L | | 0.50 | 0.12 | 1 | | 12/26/13 14:32 | 98-82-8 | |
| Methylene Chloride | <2.0 ug/L | | 4.0 | 2.0 | 1 | | 12/26/13 14:32 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 ug/L | | 5.0 | 2.5 | 1 | | 12/26/13 14:32 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.25 ug/L | | 0.50 | 0.25 | 1 | | 12/26/13 14:32 | 1634-04-4 | |
| 2-Propanol | <100 ug/L | | 100 | 100 | 1 | | 12/26/13 14:32 | 67-63-0 | |
| n-Propylbenzene | <0.25 ug/L | | 0.50 | 0.25 | 1 | | 12/26/13 14:32 | 103-65-1 | |
| Styrene | <0.24 ug/L | | 0.50 | 0.24 | 1 | | 12/26/13 14:32 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.25 ug/L | | 1.0 | 0.25 | 1 | | 12/26/13 14:32 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.13 ug/L | | 0.50 | 0.13 | 1 | | 12/26/13 14:32 | 79-34-5 | |
| Tetrachloroethene | <0.25 ug/L | | 0.50 | 0.25 | 1 | | 12/26/13 14:32 | 127-18-4 | |
| Tetrahydrofuran | <2.9 ug/L | | 10.0 | 2.9 | 1 | | 12/26/13 14:32 | 109-99-9 | |
| Toluene | <0.22 ug/L | | 0.50 | 0.22 | 1 | | 12/26/13 14:32 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.25 ug/L | | 0.50 | 0.25 | 1 | | 12/26/13 14:32 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.25 ug/L | | 0.50 | 0.25 | 1 | | 12/26/13 14:32 | 79-00-5 | |
| Trichloroethene | <0.13 ug/L | | 0.40 | 0.13 | 1 | | 12/26/13 14:32 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 ug/L | | 0.50 | 0.12 | 1 | | 12/26/13 14:32 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.54 ug/L | | 4.0 | 0.54 | 1 | | 12/26/13 14:32 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.33 ug/L | | 1.0 | 0.33 | 1 | | 12/26/13 14:32 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 ug/L | | 0.50 | 0.25 | 1 | | 12/26/13 14:32 | 95-63-6 | |
| Vinyl acetate | <5.0 ug/L | | 10.0 | 5.0 | 1 | | 12/26/13 14:32 | 108-05-4 | |
| Vinyl chloride | <0.10 ug/L | | 0.20 | 0.10 | 1 | | 12/26/13 14:32 | 75-01-4 | |
| Xylene (Total) | <0.75 ug/L | | 1.5 | 0.75 | 1 | | 12/26/13 14:32 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 106 % | | 75-125 | | 1 | | 12/26/13 14:32 | 17060-07-0 | |
| Toluene-d8 (S) | 96 % | | 75-125 | | 1 | | 12/26/13 14:32 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 103 % | | 75-125 | | 1 | | 12/26/13 14:32 | 460-00-4 | |

REPORT OF LABORATORY ANALYSIS

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| List of Analyses | | | | | | |
|---|----------------------|----------------|-----------------|-------------------|------------------|---|
| March 2014 Groundwater Monitoring Event | | | | | | |
| Bozeman Landfill, Bozeman, Montana | | | | | | |
| Project No. 114-710303A Task 700 | | | | | | |
| Container | Number of Containers | Field Filtered | No Preservative | HNO3 Preservative | HCL Preservative | Analysis |
| 250 ml Poly | 1 | | x | | | None, Extra sample |
| 250 ml Poly | 1 | | x | | | Alkalinity |
| 250 ml Poly | 1 | | x | | | Anions : Cl, SO4, CO3, HCO3 |
| 250 ml Poly | 1 | x | | x | | Cations: Ca, Mg, Na, K Other: Fe, Mn |
| 1 L Glass | 2 | | x | | | Tritium |
| 40 ml VOA | 3 | | | | x | VOC Method 8260 Low Level |
| | | | | | | |

Include w/ COC!

| | | |
|---|---|---|
|  | Document Name: MN Sample Transfer Form | Revised Date: 19Apr2013 Page: 1 of 1 |
| | Document Number: F-MT-C-179-rev.04 | Issuing Authority: Pace Minnesota Quality Office |

| | |
|--------------------|-----------------------------|
| Shipping (circle): | UPS <u>(Fed Ex)</u> |
| Tracking #: | <u>6021 2783 1087, 1102</u> |
| Client: | Tetra Tech |
| Due Date: | 11-Apr-2014 |
| Pace WO: | 10261023 |
| Project Manager: | Samantha Rupe |

MT to MN Sample Transfer Condition Upon Receipt Form

| ANALYSIS REQUESTED | | | | | |
|-----------------------------|----------------|-----------------|-------------------|------------------------|--------------------------------|
| Method Number & Description | Container Type | # of Bottles | Number of Samples | Preservative Yes or No | Verify Arrival Date & Initials |
| Tests | | | | | |
| 8260 VOC | VG9H | <u>53</u> 56 | 19 | Yes | <u>RS 4-1-14</u> |
| Trip Blank | VG9H | <u>24</u> | 1 | Yes | " |
| Alkalinity | BP3U | 18 | 18 | No | " |
| Dissolved Metals | BP3N | 13 | 13 | Yes | " |
| Lab Filtered Metals | BP3N | 10 | 5 | <u>(Yes)</u> No | " |
| | | | | | |
| | | | | | |
| | | | | | |

| REPORTING REQUIREMENTS/ADDITIONAL COMMENTS |
|--|
| |
| |
| |

| MINNESOTA SAMPLE RECEIPT INFORMATION | | | |
|---|---|--|---|
| IR Gun (circle): <u>80512447, 888A912167504, 72337080</u> | Correction Factor: <u>0.3</u> | Sample Matrix: <u>WT</u> | |
| Cooler Temp Read (°C): <u>(0.2)</u> | Cooler Temp Corrected (°C): <u>0.5 0.7</u> | Filtered volume rec'd for dissolved tests: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> |
| Arrived on Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Samples pH have been checked: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> |
| Custody Seal Present: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Trip Blank Present: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> |
| Short Hold Time Requested < 72 Hours: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Trip Blank Custody Seals Present: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> |
| Rush TAT Requested: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Pace Trip Blank Lot #: | |
| Sufficient Sample Volume: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Sample Composites Required: | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> |
| Samples Arrived within Hold Time: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Report Samples: | Wet Wt. <input type="checkbox"/> Dry Wt. <input type="checkbox"/> |
| Containers Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Reporting Units: | |

| CUSTODY TRANSFER | | | | | |
|-----------------------------|----------------|-------------|-------------------------|---------------|------------|
| Relinquished by/Affiliation | Date | Time | Accepted By/Affiliation | Date | Time |
| <u>[Signature]</u> | <u>3/31/14</u> | <u>1000</u> | <u>[Signature]</u> | <u>4/1/14</u> | <u>242</u> |
| | | | | | |
| | | | | | |

| CLIENT NOTIFICATION/RESOLUTION | |
|--------------------------------|-------------|
| Person Contacted: _____ | Date: _____ |
| Comments/Resolution: _____ | |
| | |

Project Manager Review: [Signature] Date: 4-1-14

OK 3/31/14

May 19, 2014

Mark Pearson
Tetra Tech, Inc. - MT
851 Bridger Dr. Suite 6
Bozeman, MT 59715

RE: Project: 114-710303A Bozeman Landfill
Pace Project No.: 10265966

Dear Mark Pearson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Samantha Rupe
samantha.rupe@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
 A2LA Certification #: 2926.01
 Alabama Certification #40770
 Alabama Certification #40770
 Alaska Certification #: UST-078
 Alaska Certification #MN00064
 Arizona Certification #: AZ-0014
 Arkansas Certification #: 88-0680
 California Certification #: 01155CA
 Colorado Certification #Pace
 Connecticut Certification #: PH-0256
 EPA Region 8 Certification #: 8TMS-L
 Florida/NELAP Certification #: E87605
 Guam Certification #: Pace
 Georgia Certification #: 959
 Idaho Certification #: MN00064
 Hawaii Certification #MN00064
 Illinois Certification #: 200011
 Indiana Certification#C-MN-01
 Iowa Certification #: 368
 Kansas Certification #: E-10167
 Kentucky Dept of Envi. Protection - DW #90062
 Kentucky Dept of Envi. Protection - WW #:90062
 Louisiana DEQ Certification #: 3086
 Louisiana DHH #: LA140001
 Maine Certification #: 2013011
 Maryland Certification #: 322
 Michigan DEPH Certification #: 9909
 Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace
 Montana Certification #: MT0092
 Nebraska Certification #: Pace
 New Jersey Certification #: MN-002
 New Jersey Certification #: MN-002
 New York Certification #: 11647
 North Carolina Certification #: 530
 North Carolina State Public Health #: 27700
 North Dakota Certification #: R-036
 Ohio EPA #: 4150
 Ohio VAP Certification #: CL101
 Oklahoma Certification #: 9507
 Oregon Certification #: MN200001
 Oregon Certification #: MN300001
 Pennsylvania Certification #: 68-00563
 Puerto Rico Certification
 Saipan (CNMI) #:MP0003
 South Carolina #:74003001
 Texas Certification #: T104704192
 Tennessee Certification #: 02818
 Utah Certification #: MN000642013-4
 Virginia DGS Certification #: 251
 Virginia/VELAP Certification #: Pace
 Washington Certification #: C486
 Wisconsin Certification #: 999407970
 West Virginia Certification #: 382
 West Virginia TO-15 Approval
 West Virginia DHHR #:9952C

Montana Certification IDs

150 N. 9th Street, Billings, MT 59101
 Colorado Asbestos #:17119
 A2LA Certification #: 3590.01
 EPA Region 8 Certification #: 8TMS-L
 Idaho Certification #: MT00012

Minnesota Dept of Health Certification #: 030-999-442
 Montana Certification #: MT CERT0040
 North Dakota Dept. Of Health #: R-209
 NVLAP Certification #: 101292-0
 Washington Department of Ecology #: C993

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
 ACLASS DOD-ELAP Accreditation #: ADE-1544
 Alabama Certification #: 41590
 Arizona Certification #: AZ0734
 Arkansas Certification
 California/TNI Certification #: 04222CA
 Colorado Certification
 Connecticut Certification #: PH-0694
 Delaware Certification
 Florida/TNI Certification #: E87683
 Guam/PADEP Certification
 Hawaii/PADEP Certification
 Idaho Certification
 Illinois/PADEP Certification
 Indiana/PADEP Certification
 Iowa Certification #: 391
 Kansas/TNI Certification #: E-10358
 Kentucky Certification #: 90133
 Louisiana DHH/TNI Certification #: LA140008
 Louisiana DEQ/TNI Certification #: 4086
 Maine Certification #: PA00091
 Maryland Certification #: 308
 Massachusetts Certification #: M-PA1457
 Michigan/PADEP Certification

Missouri Certification #: 235
 Montana Certification #: Cert 0082
 Nebraska Certification #: NE-05-29-14
 Nevada Certification
 New Hampshire/TNI Certification #: 2976
 New Jersey/TNI Certification #: PA 051
 New Mexico Certification
 New York/TNI Certification #: 10888
 North Carolina Certification #: 42706
 North Dakota Certification #: R-190
 Oregon/TNI Certification #: PA200002
 Pennsylvania/TNI Certification #: 65-00282
 Puerto Rico Certification #: PA01457
 South Dakota Certification
 Tennessee Certification #: TN2867
 Texas/TNI Certification #: T104704188
 Utah/TNI Certification #: PA014572014-4
 Vermont Dept. of Health: ID# VT-0282
 Virgin Island/PADEP Certification
 Virginia/VELAP Certification #: 460198
 Washington Certification #: C868
 West Virginia DEP Certification #: 143
 West Virginia DHHR Certification #: 9964C
 Wisconsin/PADEP Certification

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Pennsylvania Certification IDs

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|------------|--------|----------------|----------------|
| 10265966001 | MW-17 | Water | 05/01/14 16:00 | 05/06/14 10:35 |
| 10265966002 | MW-18 | Water | 05/02/14 12:30 | 05/06/14 10:35 |
| 10265966003 | MW-19 | Water | 05/01/14 13:50 | 05/06/14 10:35 |
| 10265966004 | MW-20 | Water | 05/02/14 11:30 | 05/06/14 10:35 |
| 10265966005 | MW-21 | Water | 05/01/14 10:30 | 05/06/14 10:35 |
| 10265966006 | MW-22 | Water | 05/01/14 13:00 | 05/06/14 10:35 |
| 10265966007 | MW-23 | Water | 05/01/14 12:00 | 05/06/14 10:35 |
| 10265966008 | MW-24 | Water | 05/02/14 14:00 | 05/06/14 10:35 |
| 10265966009 | MW-25 | Water | 05/02/14 15:30 | 05/06/14 10:35 |
| 10265966010 | MW-26 | Water | 05/01/14 14:50 | 05/06/14 10:35 |
| 10265966011 | DUP | Water | 05/02/14 11:30 | 05/06/14 10:35 |
| 10265966012 | TRIP BLANK | Water | | 05/06/14 10:35 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|------------|-----------|----------|-------------------|------------|
| 10265966001 | MW-17 | EPA 8260B | LPM | 61 | PASI-M |
| 10265966002 | MW-18 | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | EPA 906.0 | SLA | 1 | PASI-PA |
| | | SM 2320B | PH1 | 3 | PASI-M |
| 10265966003 | MW-19 | EPA 8260B | LPM | 61 | PASI-M |
| 10265966004 | MW-20 | EPA 8260B | LPM | 61 | PASI-M |
| 10265966005 | MW-21 | EPA 8260B | LPM | 61 | PASI-M |
| 10265966006 | MW-22 | EPA 8260B | LPM | 61 | PASI-M |
| 10265966007 | MW-23 | EPA 8260B | LPM | 61 | PASI-M |
| 10265966008 | MW-24 | EPA 8260B | LPM | 61 | PASI-M |
| 10265966009 | MW-25 | EPA 6020 | TT3 | 6 | PASI-M |
| | | EPA 8260B | LPM | 61 | PASI-M |
| | | EPA 300.0 | SKW | 2 | PASI-MT |
| | | SM 2320B | PH1 | 3 | PASI-M |
| 10265966010 | MW-26 | EPA 8260B | LPM | 61 | PASI-M |
| 10265966011 | DUP | EPA 8260B | LPM | 61 | PASI-M |
| 10265966012 | TRIP BLANK | EPA 8260B | LPM | 61 | PASI-M |

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

Client: Tetra Tech, Inc. - MT

Date: May 19, 2014

General Information:

2 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Method: EPA 8260B

Description: 8260B MSV Low Level

Client: Tetra Tech, Inc. - MT

Date: May 19, 2014

General Information:

12 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/27055

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10265834002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1678319)
 - 1,2-Dibromo-3-chloropropane
- MSD (Lab ID: 1678320)
 - 1,2-Dibromo-3-chloropropane
 - Chloroethane

Additional Comments:

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PROJECT NARRATIVE

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Method: EPA 300.0

Description: 300.0 IC Anions

Client: Tetra Tech, Inc. - MT

Date: May 19, 2014

General Information:

2 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Method: EPA 906.0

Description: 906.0 Tritium

Client: Tetra Tech, Inc. - MT

Date: May 19, 2014

General Information:

1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Method: SM 2320B

Description: 2320B Alkalinity

Client: Tetra Tech, Inc. - MT

Date: May 19, 2014

General Information:

2 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-17 **Lab ID: 10265966001** Collected: 05/01/14 16:00 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 07:51 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 07:51 | 107-13-1 | |
| Benzene | 0.079J | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 07:51 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 07:51 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 07:51 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 07:51 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 07:51 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 07:51 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 07:51 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 07:51 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 07:51 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 07:51 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 07:51 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 07:51 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 07:51 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 07:51 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 07:51 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 07:51 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 07:51 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 07:51 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 07:51 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 07:51 | 110-57-6 | |
| Dichlorodifluoromethane | 2.0 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 07:51 | 75-71-8 | |
| 1,1-Dichloroethane | 0.74 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 07:51 | 75-34-3 | |
| 1,2-Dichloroethane | <0.093 | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 07:51 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 07:51 | 75-35-4 | |
| cis-1,2-Dichloroethene | 27.6 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 07:51 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 07:51 | 156-60-5 | |
| 1,2-Dichloropropane | 0.19J | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 07:51 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 07:51 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 07:51 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 07:51 | 123-91-1 | |
| Ethylbenzene | <0.096 | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 07:51 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 07:51 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 07:51 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 07:51 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 07:51 | 98-82-8 | |
| Methylene Chloride | 5.1 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 07:51 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 07:51 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 07:51 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 07:51 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 07:51 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 07:51 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 07:51 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 07:51 | 79-34-5 | |
| Tetrachloroethene | 16.0 | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 07:51 | 127-18-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-17 **Lab ID: 10265966001** Collected: 05/01/14 16:00 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <0.98 | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 07:51 | 109-99-9 | |
| Toluene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 07:51 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 07:51 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 07:51 | 79-00-5 | |
| Trichloroethene | 5.8 | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 07:51 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 07:51 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 07:51 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 07:51 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 07:51 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 07:51 | 108-05-4 | |
| Vinyl chloride | 2.3 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 07:51 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 07:51 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 112 | % | 75-125 | | 1 | | 05/13/14 07:51 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 75-125 | | 1 | | 05/13/14 07:51 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 | % | 75-125 | | 1 | | 05/13/14 07:51 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-18 **Lab ID: 10265966002** Collected: 05/02/14 12:30 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|------------------|---|-------|--------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 228000 | ug/L | 800 | 168 | 20 | 05/15/14 13:31 | 05/16/14 10:41 | 7440-70-2 | |
| Iron, Dissolved | 0.74 | mg/L | 0.050 | 0.0080 | 1 | 05/15/14 13:31 | 05/16/14 10:38 | 7439-89-6 | |
| Magnesium, Dissolved | 83600 | ug/L | 200 | 56.9 | 20 | 05/15/14 13:31 | 05/16/14 10:41 | 7439-95-4 | |
| Manganese, Dissolved | 2.6 | mg/L | 0.010 | 0.0027 | 20 | 05/15/14 13:31 | 05/16/14 10:41 | 7439-96-5 | |
| Potassium, Dissolved | 2950 | ug/L | 50.0 | 8.3 | 1 | 05/15/14 13:31 | 05/16/14 10:38 | 7440-09-7 | |
| Sodium, Dissolved | 17900 | ug/L | 50.0 | 18.2 | 1 | 05/15/14 13:31 | 05/16/14 10:38 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 11:37 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 11:37 | 107-13-1 | |
| Benzene | 0.66 | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 11:37 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 11:37 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 11:37 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 11:37 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 11:37 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 11:37 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 11:37 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 11:37 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 11:37 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 11:37 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 11:37 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 11:37 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 11:37 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 11:37 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 11:37 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 11:37 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 11:37 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 11:37 | 95-50-1 | |
| 1,4-Dichlorobenzene | 0.99 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 11:37 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 11:37 | 110-57-6 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 11:37 | 75-71-8 | |
| 1,1-Dichloroethane | 0.56 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 11:37 | 75-34-3 | |
| 1,2-Dichloroethane | 0.16J | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 11:37 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 11:37 | 75-35-4 | |
| cis-1,2-Dichloroethene | 18.5 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 11:37 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 11:37 | 156-60-5 | |
| 1,2-Dichloropropane | 0.49J | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 11:37 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 11:37 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 11:37 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 11:37 | 123-91-1 | |
| Ethylbenzene | <0.096 | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 11:37 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 11:37 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 11:37 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 11:37 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 11:37 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 11:37 | 75-09-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-18 **Lab ID: 10265966002** Collected: 05/02/14 12:30 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 11:37 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 11:37 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 11:37 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 11:37 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 11:37 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 11:37 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 11:37 | 79-34-5 | |
| Tetrachloroethene | 0.87 | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 11:37 | 127-18-4 | |
| Tetrahydrofuran | 9.8J | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 11:37 | 109-99-9 | |
| Toluene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 11:37 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 11:37 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 11:37 | 79-00-5 | |
| Trichloroethene | 0.38J | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 11:37 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 11:37 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 11:37 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 11:37 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 11:37 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 11:37 | 108-05-4 | |
| Vinyl chloride | 3.3 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 11:37 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 11:37 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 111 | % | 75-125 | | 1 | | 05/13/14 11:37 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 75-125 | | 1 | | 05/13/14 11:37 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | % | 75-125 | | 1 | | 05/13/14 11:37 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 103 | mg/L | 5.0 | 2.5 | 5 | | 05/07/14 22:44 | 16887-00-6 | |
| Sulfate | 3.4 | mg/L | 1.0 | 0.50 | 1 | | 05/08/14 12:59 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 762 | mg/L | 5.0 | 2.5 | 1 | | 05/14/14 15:40 | | |
| Alkalinity,Bicarbonate (CaCO3) | 762 | mg/L | 5.0 | 2.5 | 1 | | 05/14/14 15:40 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 05/14/14 15:40 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-19 **Lab ID: 10265966003** Collected: 05/01/14 13:50 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 08:16 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 08:16 | 107-13-1 | |
| Benzene | <0.073 | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 08:16 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 08:16 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 08:16 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 08:16 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 08:16 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 08:16 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 08:16 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 08:16 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 08:16 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 08:16 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 08:16 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 08:16 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 08:16 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 08:16 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 08:16 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 08:16 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 08:16 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 08:16 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 08:16 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 08:16 | 110-57-6 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 08:16 | 75-71-8 | |
| 1,1-Dichloroethane | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 08:16 | 75-34-3 | |
| 1,2-Dichloroethane | <0.093 | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 08:16 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 08:16 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 08:16 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 08:16 | 156-60-5 | |
| 1,2-Dichloropropane | <0.10 | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 08:16 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 08:16 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 08:16 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 08:16 | 123-91-1 | |
| Ethylbenzene | 0.18J | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 08:16 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 08:16 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 08:16 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 08:16 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 08:16 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 08:16 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 08:16 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 08:16 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 08:16 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 08:16 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 08:16 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 08:16 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 08:16 | 79-34-5 | |
| Tetrachloroethene | 0.80 | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 08:16 | 127-18-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-19 **Lab ID: 10265966003** Collected: 05/01/14 13:50 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <0.98 | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 08:16 | 109-99-9 | |
| Toluene | 0.90 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 08:16 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 08:16 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 08:16 | 79-00-5 | |
| Trichloroethene | <0.084 | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 08:16 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 08:16 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 08:16 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 08:16 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 0.27J | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 08:16 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 08:16 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 08:16 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 08:16 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 110 | % | 75-125 | | 1 | | 05/13/14 08:16 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 75-125 | | 1 | | 05/13/14 08:16 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 99 | % | 75-125 | | 1 | | 05/13/14 08:16 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-20 **Lab ID: 10265966004** Collected: 05/02/14 11:30 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 10:21 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 10:21 | 107-13-1 | |
| Benzene | 0.69 | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 10:21 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 10:21 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 10:21 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 10:21 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 10:21 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 10:21 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 10:21 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 10:21 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 10:21 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 10:21 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 10:21 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 10:21 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 10:21 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 10:21 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 10:21 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 10:21 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 10:21 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 10:21 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 10:21 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 10:21 | 110-57-6 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 10:21 | 75-71-8 | |
| 1,1-Dichloroethane | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 10:21 | 75-34-3 | |
| 1,2-Dichloroethane | <0.093 | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 10:21 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 10:21 | 75-35-4 | |
| cis-1,2-Dichloroethene | 0.15J | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 10:21 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 10:21 | 156-60-5 | |
| 1,2-Dichloropropane | <0.10 | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 10:21 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 10:21 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 10:21 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 10:21 | 123-91-1 | |
| Ethylbenzene | <0.096 | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 10:21 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 10:21 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 10:21 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 10:21 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 10:21 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 10:21 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 10:21 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 10:21 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 10:21 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 10:21 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 10:21 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 10:21 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 10:21 | 79-34-5 | |
| Tetrachloroethene | 9.4 | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 10:21 | 127-18-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-20 **Lab ID: 10265966004** Collected: 05/02/14 11:30 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <0.98 | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 10:21 | 109-99-9 | |
| Toluene | 0.22J | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 10:21 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 10:21 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 10:21 | 79-00-5 | |
| Trichloroethene | 0.33J | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 10:21 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 10:21 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 10:21 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 10:21 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 10:21 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 10:21 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 10:21 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 10:21 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 111 | % | 75-125 | | 1 | | 05/13/14 10:21 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 75-125 | | 1 | | 05/13/14 10:21 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 | % | 75-125 | | 1 | | 05/13/14 10:21 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-21 **Lab ID: 10265966005** Collected: 05/01/14 10:30 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 08:41 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 08:41 | 107-13-1 | |
| Benzene | <0.073 | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 08:41 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 08:41 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 08:41 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 08:41 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 08:41 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 08:41 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 08:41 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 08:41 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 08:41 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 08:41 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 08:41 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 08:41 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 08:41 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 08:41 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 08:41 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 08:41 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 08:41 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 08:41 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 08:41 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 08:41 | 110-57-6 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 08:41 | 75-71-8 | |
| 1,1-Dichloroethane | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 08:41 | 75-34-3 | |
| 1,2-Dichloroethane | <0.093 | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 08:41 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 08:41 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 08:41 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 08:41 | 156-60-5 | |
| 1,2-Dichloropropane | <0.10 | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 08:41 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 08:41 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 08:41 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 08:41 | 123-91-1 | |
| Ethylbenzene | <0.096 | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 08:41 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 08:41 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 08:41 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 08:41 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 08:41 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 08:41 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 08:41 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 08:41 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 08:41 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 08:41 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 08:41 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 08:41 | 630-20-6 | |
| 1,1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 08:41 | 79-34-5 | |
| Tetrachloroethene | <0.099 | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 08:41 | 127-18-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-21 **Lab ID: 10265966005** Collected: 05/01/14 10:30 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <0.98 | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 08:41 | 109-99-9 | |
| Toluene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 08:41 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 08:41 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 08:41 | 79-00-5 | |
| Trichloroethene | <0.084 | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 08:41 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 08:41 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 08:41 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 08:41 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 08:41 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 08:41 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 08:41 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 08:41 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 113 | % | 75-125 | | 1 | | 05/13/14 08:41 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 75-125 | | 1 | | 05/13/14 08:41 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 102 | % | 75-125 | | 1 | | 05/13/14 08:41 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-22 **Lab ID: 10265966006** Collected: 05/01/14 13:00 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 09:06 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 09:06 | 107-13-1 | |
| Benzene | <0.073 | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 09:06 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 09:06 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:06 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:06 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:06 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:06 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 09:06 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 09:06 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 09:06 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 09:06 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 09:06 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 09:06 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:06 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:06 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 09:06 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 09:06 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 09:06 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 09:06 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 09:06 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 09:06 | 110-57-6 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 09:06 | 75-71-8 | |
| 1,1-Dichloroethane | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 09:06 | 75-34-3 | |
| 1,2-Dichloroethane | <0.093 | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 09:06 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 09:06 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:06 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 09:06 | 156-60-5 | |
| 1,2-Dichloropropane | <0.10 | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 09:06 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 09:06 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:06 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 09:06 | 123-91-1 | |
| Ethylbenzene | <0.096 | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 09:06 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 09:06 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:06 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:06 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 09:06 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:06 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:06 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 09:06 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 09:06 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 09:06 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 09:06 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 09:06 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 09:06 | 79-34-5 | |
| Tetrachloroethene | <0.099 | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 09:06 | 127-18-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-22 **Lab ID: 10265966006** Collected: 05/01/14 13:00 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <0.98 | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 09:06 | 109-99-9 | |
| Toluene | 0.52 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:06 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 09:06 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 09:06 | 79-00-5 | |
| Trichloroethene | <0.084 | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 09:06 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 09:06 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 09:06 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 09:06 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 09:06 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 09:06 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 09:06 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 09:06 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 114 | % | 75-125 | | 1 | | 05/13/14 09:06 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 75-125 | | 1 | | 05/13/14 09:06 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 101 | % | 75-125 | | 1 | | 05/13/14 09:06 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-23 **Lab ID: 10265966007** Collected: 05/01/14 12:00 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|--------------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 09:31 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 09:31 | 107-13-1 | |
| Benzene | 0.20J | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 09:31 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 09:31 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:31 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:31 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:31 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:31 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 09:31 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 09:31 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 09:31 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 09:31 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 09:31 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 09:31 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:31 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:31 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 09:31 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 09:31 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 09:31 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 09:31 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 09:31 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 09:31 | 110-57-6 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 09:31 | 75-71-8 | |
| 1,1-Dichloroethane | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 09:31 | 75-34-3 | |
| 1,2-Dichloroethane | <0.093 | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 09:31 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 09:31 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:31 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 09:31 | 156-60-5 | |
| 1,2-Dichloropropane | <0.10 | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 09:31 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 09:31 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:31 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 09:31 | 123-91-1 | |
| Ethylbenzene | 0.35J | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 09:31 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 09:31 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:31 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:31 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 09:31 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:31 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:31 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 09:31 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 09:31 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 09:31 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 09:31 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 09:31 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 09:31 | 79-34-5 | |
| Tetrachloroethene | <0.099 | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 09:31 | 127-18-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-23 **Lab ID: 10265966007** Collected: 05/01/14 12:00 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <0.98 | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 09:31 | 109-99-9 | |
| Toluene | 0.97 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:31 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 09:31 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 09:31 | 79-00-5 | |
| Trichloroethene | <0.084 | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 09:31 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 09:31 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 09:31 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 09:31 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 0.39J | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 09:31 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 09:31 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 09:31 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 09:31 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 111 | % | 75-125 | | 1 | | 05/13/14 09:31 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 75-125 | | 1 | | 05/13/14 09:31 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 | % | 75-125 | | 1 | | 05/13/14 09:31 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-24 **Lab ID: 10265966008** Collected: 05/02/14 14:00 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 10:46 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 10:46 | 107-13-1 | |
| Benzene | <0.073 | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 10:46 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 10:46 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 10:46 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 10:46 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 10:46 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 10:46 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 10:46 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 10:46 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 10:46 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 10:46 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 10:46 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 10:46 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 10:46 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 10:46 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 10:46 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 10:46 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 10:46 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 10:46 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 10:46 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 10:46 | 110-57-6 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 10:46 | 75-71-8 | |
| 1,1-Dichloroethane | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 10:46 | 75-34-3 | |
| 1,2-Dichloroethane | <0.093 | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 10:46 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 10:46 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 10:46 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 10:46 | 156-60-5 | |
| 1,2-Dichloropropane | <0.10 | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 10:46 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 10:46 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 10:46 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 10:46 | 123-91-1 | |
| Ethylbenzene | <0.096 | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 10:46 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 10:46 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 10:46 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 10:46 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 10:46 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 10:46 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 10:46 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 10:46 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 10:46 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 10:46 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 10:46 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 10:46 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 10:46 | 79-34-5 | |
| Tetrachloroethene | 0.36J | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 10:46 | 127-18-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-24 **Lab ID: 10265966008** Collected: 05/02/14 14:00 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <0.98 | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 10:46 | 109-99-9 | |
| Toluene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 10:46 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 10:46 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 10:46 | 79-00-5 | |
| Trichloroethene | <0.084 | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 10:46 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 10:46 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 10:46 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 10:46 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 10:46 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 10:46 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 10:46 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 10:46 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 112 | % | 75-125 | | 1 | | 05/13/14 10:46 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 75-125 | | 1 | | 05/13/14 10:46 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 99 | % | 75-125 | | 1 | | 05/13/14 10:46 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-25 **Lab ID: 10265966009** Collected: 05/02/14 15:30 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------------|------------------|---|-------|--------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS, Dissolved | | Analytical Method: EPA 6020 Preparation Method: EPA 3020 | | | | | | | |
| Calcium, Dissolved | 70700 | ug/L | 800 | 168 | 20 | 05/15/14 13:31 | 05/16/14 10:47 | 7440-70-2 | |
| Iron, Dissolved | 0.013J | mg/L | 0.050 | 0.0080 | 1 | 05/15/14 13:31 | 05/16/14 10:44 | 7439-89-6 | |
| Magnesium, Dissolved | 20300 | ug/L | 10.0 | 2.8 | 1 | 05/15/14 13:31 | 05/16/14 10:44 | 7439-95-4 | |
| Manganese, Dissolved | 0.45 | mg/L | 0.010 | 0.0027 | 20 | 05/15/14 13:31 | 05/16/14 10:47 | 7439-96-5 | |
| Potassium, Dissolved | 2520 | ug/L | 50.0 | 8.3 | 1 | 05/15/14 13:31 | 05/16/14 10:44 | 7440-09-7 | |
| Sodium, Dissolved | 18200 | ug/L | 50.0 | 18.2 | 1 | 05/15/14 13:31 | 05/16/14 10:44 | 7440-23-5 | |
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 11:11 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 11:11 | 107-13-1 | |
| Benzene | <0.073 | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 11:11 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 11:11 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 11:11 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 11:11 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 11:11 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 11:11 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 11:11 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 11:11 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 11:11 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 11:11 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 11:11 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 11:11 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 11:11 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 11:11 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 11:11 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 11:11 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 11:11 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 11:11 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 11:11 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 11:11 | 110-57-6 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 11:11 | 75-71-8 | |
| 1,1-Dichloroethane | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 11:11 | 75-34-3 | |
| 1,2-Dichloroethane | <0.093 | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 11:11 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 11:11 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 11:11 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 11:11 | 156-60-5 | |
| 1,2-Dichloropropane | <0.10 | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 11:11 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 11:11 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 11:11 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 11:11 | 123-91-1 | |
| Ethylbenzene | <0.096 | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 11:11 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 11:11 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 11:11 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 11:11 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 11:11 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 11:11 | 75-09-2 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-25 **Lab ID: 10265966009** Collected: 05/02/14 15:30 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 11:11 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 11:11 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 11:11 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 11:11 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 11:11 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 11:11 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 11:11 | 79-34-5 | |
| Tetrachloroethene | <0.099 | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 11:11 | 127-18-4 | |
| Tetrahydrofuran | <0.98 | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 11:11 | 109-99-9 | |
| Toluene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 11:11 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 11:11 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 11:11 | 79-00-5 | |
| Trichloroethene | <0.084 | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 11:11 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 11:11 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 11:11 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 11:11 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 11:11 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 11:11 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 11:11 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 11:11 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 112 | % | 75-125 | | 1 | | 05/13/14 11:11 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 75-125 | | 1 | | 05/13/14 11:11 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 99 | % | 75-125 | | 1 | | 05/13/14 11:11 | 460-00-4 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 8.4 | mg/L | 1.0 | 0.50 | 1 | | 05/08/14 14:02 | 16887-00-6 | |
| Sulfate | 13.6 | mg/L | 1.0 | 0.50 | 1 | | 05/08/14 14:02 | 14808-79-8 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B | | | | | | | |
| Alkalinity, Total as CaCO3 | 258 | mg/L | 5.0 | 2.5 | 1 | | 05/14/14 16:35 | | |
| Alkalinity,Bicarbonate (CaCO3) | 258 | mg/L | 5.0 | 2.5 | 1 | | 05/14/14 16:35 | | |
| Alkalinity,Carbonate (CaCO3) | <2.5 | mg/L | 5.0 | 2.5 | 1 | | 05/14/14 16:35 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-26 **Lab ID: 10265966010** Collected: 05/01/14 14:50 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 09:56 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 09:56 | 107-13-1 | |
| Benzene | <0.073 | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 09:56 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 09:56 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:56 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:56 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:56 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:56 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 09:56 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 09:56 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 09:56 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 09:56 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 09:56 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 09:56 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:56 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:56 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 09:56 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 09:56 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 09:56 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 09:56 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 09:56 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 09:56 | 110-57-6 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 09:56 | 75-71-8 | |
| 1,1-Dichloroethane | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 09:56 | 75-34-3 | |
| 1,2-Dichloroethane | <0.093 | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 09:56 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 09:56 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:56 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 09:56 | 156-60-5 | |
| 1,2-Dichloropropane | <0.10 | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 09:56 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 09:56 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:56 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 09:56 | 123-91-1 | |
| Ethylbenzene | <0.096 | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 09:56 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 09:56 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:56 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:56 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 09:56 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 09:56 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 09:56 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 09:56 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 09:56 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 09:56 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 09:56 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 09:56 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 09:56 | 79-34-5 | |
| Tetrachloroethene | <0.099 | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 09:56 | 127-18-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-26 **Lab ID: 10265966010** Collected: 05/01/14 14:50 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <0.98 | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 09:56 | 109-99-9 | |
| Toluene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 09:56 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 09:56 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 09:56 | 79-00-5 | |
| Trichloroethene | <0.084 | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 09:56 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 09:56 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 09:56 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 09:56 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 09:56 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 09:56 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 09:56 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 09:56 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 110 | % | 75-125 | | 1 | | 05/13/14 09:56 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 75-125 | | 1 | | 05/13/14 09:56 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 99 | % | 75-125 | | 1 | | 05/13/14 09:56 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: DUP **Lab ID: 10265966011** Collected: 05/02/14 11:30 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|--------------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 12:02 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 12:02 | 107-13-1 | |
| Benzene | 0.44J | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 12:02 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 12:02 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 12:02 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 12:02 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 12:02 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 12:02 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 12:02 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 12:02 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 12:02 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 12:02 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 12:02 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 12:02 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 12:02 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 12:02 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 12:02 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 12:02 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 12:02 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 12:02 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 12:02 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 12:02 | 110-57-6 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 12:02 | 75-71-8 | |
| 1,1-Dichloroethane | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 12:02 | 75-34-3 | |
| 1,2-Dichloroethane | <0.093 | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 12:02 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 12:02 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 12:02 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 12:02 | 156-60-5 | |
| 1,2-Dichloropropane | <0.10 | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 12:02 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 12:02 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 12:02 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 12:02 | 123-91-1 | |
| Ethylbenzene | <0.096 | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 12:02 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 12:02 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 12:02 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 12:02 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 12:02 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 12:02 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 12:02 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 12:02 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 12:02 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 12:02 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 12:02 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 12:02 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 12:02 | 79-34-5 | |
| Tetrachloroethene | 9.4 | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 12:02 | 127-18-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: DUP **Lab ID: 10265966011** Collected: 05/02/14 11:30 Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <0.98 | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 12:02 | 109-99-9 | |
| Toluene | 0.15J | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 12:02 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 12:02 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 12:02 | 79-00-5 | |
| Trichloroethene | 0.22J | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 12:02 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 12:02 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 12:02 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 12:02 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 12:02 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 12:02 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 12:02 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 12:02 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 109 | % | 75-125 | | 1 | | 05/13/14 12:02 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 75-125 | | 1 | | 05/13/14 12:02 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | % | 75-125 | | 1 | | 05/13/14 12:02 | 460-00-4 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: TRIP BLANK **Lab ID: 10265966012** Collected: Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Acetone | <10.0 | ug/L | 20.0 | 10.0 | 1 | | 05/13/14 04:33 | 67-64-1 | |
| Acrylonitrile | <1.0 | ug/L | 10.0 | 1.0 | 1 | | 05/13/14 04:33 | 107-13-1 | |
| Benzene | <0.073 | ug/L | 0.50 | 0.073 | 1 | | 05/13/14 04:33 | 71-43-2 | |
| Bromochloromethane | <0.15 | ug/L | 1.0 | 0.15 | 1 | | 05/13/14 04:33 | 74-97-5 | |
| Bromodichloromethane | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 04:33 | 75-27-4 | |
| Bromoform | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 04:33 | 75-25-2 | |
| Bromomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 04:33 | 74-83-9 | |
| 2-Butanone (MEK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 04:33 | 78-93-3 | |
| Carbon disulfide | <0.12 | ug/L | 1.0 | 0.12 | 1 | | 05/13/14 04:33 | 75-15-0 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 04:33 | 56-23-5 | |
| Chlorobenzene | <0.066 | ug/L | 0.50 | 0.066 | 1 | | 05/13/14 04:33 | 108-90-7 | |
| Chloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 05/13/14 04:33 | 75-00-3 | |
| Chloroform | <0.20 | ug/L | 0.50 | 0.20 | 1 | | 05/13/14 04:33 | 67-66-3 | |
| Chloromethane | <0.34 | ug/L | 4.0 | 0.34 | 1 | | 05/13/14 04:33 | 74-87-3 | |
| Cyclohexane | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 04:33 | 110-82-7 | |
| 1,2-Dibromo-3-chloropropane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 04:33 | 96-12-8 | |
| Dibromochloromethane | <0.086 | ug/L | 0.50 | 0.086 | 1 | | 05/13/14 04:33 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.097 | ug/L | 0.50 | 0.097 | 1 | | 05/13/14 04:33 | 106-93-4 | |
| Dibromomethane | <0.18 | ug/L | 0.50 | 0.18 | 1 | | 05/13/14 04:33 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.082 | ug/L | 0.50 | 0.082 | 1 | | 05/13/14 04:33 | 95-50-1 | |
| 1,4-Dichlorobenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 04:33 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 04:33 | 110-57-6 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 05/13/14 04:33 | 75-71-8 | |
| 1,1-Dichloroethane | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 04:33 | 75-34-3 | |
| 1,2-Dichloroethane | <0.093 | ug/L | 0.50 | 0.093 | 1 | | 05/13/14 04:33 | 107-06-2 | |
| 1,1-Dichloroethene | <0.13 | ug/L | 0.50 | 0.13 | 1 | | 05/13/14 04:33 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 04:33 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.15 | ug/L | 0.50 | 0.15 | 1 | | 05/13/14 04:33 | 156-60-5 | |
| 1,2-Dichloropropane | <0.10 | ug/L | 4.0 | 0.10 | 1 | | 05/13/14 04:33 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.088 | ug/L | 0.50 | 0.088 | 1 | | 05/13/14 04:33 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 04:33 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | <28.7 | ug/L | 200 | 28.7 | 1 | | 05/13/14 04:33 | 123-91-1 | |
| Ethylbenzene | <0.096 | ug/L | 0.50 | 0.096 | 1 | | 05/13/14 04:33 | 100-41-4 | |
| n-Hexane | <5.0 | ug/L | 10.0 | 5.0 | 1 | | 05/13/14 04:33 | 110-54-3 | |
| 2-Hexanone | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 04:33 | 591-78-6 | |
| Iodomethane | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 04:33 | 74-88-4 | |
| Isopropylbenzene (Cumene) | <0.068 | ug/L | 0.50 | 0.068 | 1 | | 05/13/14 04:33 | 98-82-8 | |
| Methylene Chloride | <2.0 | ug/L | 4.0 | 2.0 | 1 | | 05/13/14 04:33 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 05/13/14 04:33 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.078 | ug/L | 0.50 | 0.078 | 1 | | 05/13/14 04:33 | 1634-04-4 | |
| 2-Propanol | <50.0 | ug/L | 100 | 50.0 | 1 | | 05/13/14 04:33 | 67-63-0 | |
| n-Propylbenzene | <0.077 | ug/L | 0.50 | 0.077 | 1 | | 05/13/14 04:33 | 103-65-1 | |
| Styrene | <0.064 | ug/L | 0.50 | 0.064 | 1 | | 05/13/14 04:33 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 04:33 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.075 | ug/L | 0.50 | 0.075 | 1 | | 05/13/14 04:33 | 79-34-5 | |
| Tetrachloroethene | <0.099 | ug/L | 0.50 | 0.099 | 1 | | 05/13/14 04:33 | 127-18-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: TRIP BLANK **Lab ID: 10265966012** Collected: Received: 05/06/14 10:35 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|------------------------------|--------|-------|----|----------|----------------|------------|------|
| 8260B MSV Low Level | | Analytical Method: EPA 8260B | | | | | | | |
| Tetrahydrofuran | <0.98 | ug/L | 10.0 | 0.98 | 1 | | 05/13/14 04:33 | 109-99-9 | |
| Toluene | <0.11 | ug/L | 0.50 | 0.11 | 1 | | 05/13/14 04:33 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.17 | ug/L | 0.50 | 0.17 | 1 | | 05/13/14 04:33 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.10 | ug/L | 0.50 | 0.10 | 1 | | 05/13/14 04:33 | 79-00-5 | |
| Trichloroethene | <0.084 | ug/L | 0.40 | 0.084 | 1 | | 05/13/14 04:33 | 79-01-6 | |
| Trichlorofluoromethane | <0.12 | ug/L | 0.50 | 0.12 | 1 | | 05/13/14 04:33 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.2 | ug/L | 4.0 | 1.2 | 1 | | 05/13/14 04:33 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.16 | ug/L | 1.0 | 0.16 | 1 | | 05/13/14 04:33 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.25 | ug/L | 0.50 | 0.25 | 1 | | 05/13/14 04:33 | 95-63-6 | |
| Vinyl acetate | <0.13 | ug/L | 10.0 | 0.13 | 1 | | 05/13/14 04:33 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/L | 0.20 | 0.20 | 1 | | 05/13/14 04:33 | 75-01-4 | |
| Xylene (Total) | <0.20 | ug/L | 1.5 | 0.20 | 1 | | 05/13/14 04:33 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 113 | % | 75-125 | | 1 | | 05/13/14 04:33 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 75-125 | | 1 | | 05/13/14 04:33 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 103 | % | 75-125 | | 1 | | 05/13/14 04:33 | 460-00-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

QC Batch: MPRP/45933 Analysis Method: EPA 6020
 QC Batch Method: EPA 3020 Analysis Description: 6020 MET Dissolved
 Associated Lab Samples: 10265966002, 10265966009

METHOD BLANK: 1681904 Matrix: Water

Associated Lab Samples: 10265966002, 10265966009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|----------------------|-------|--------------|-----------------|----------------|------------|
| Calcium, Dissolved | ug/L | <8.4 | 40.0 | 05/16/14 10:00 | |
| Iron, Dissolved | mg/L | <0.0080 | 0.050 | 05/16/14 10:00 | |
| Magnesium, Dissolved | ug/L | <2.8 | 10.0 | 05/16/14 10:00 | |
| Manganese, Dissolved | mg/L | <0.00014 | 0.00050 | 05/16/14 10:00 | |
| Potassium, Dissolved | ug/L | <8.3 | 50.0 | 05/16/14 10:00 | |
| Sodium, Dissolved | ug/L | <18.2 | 50.0 | 05/16/14 10:00 | |

LABORATORY CONTROL SAMPLE: 1681905

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Calcium, Dissolved | ug/L | 1000 | 1040 | 104 | 80-120 | |
| Iron, Dissolved | mg/L | 1 | 1.1 | 106 | 80-120 | |
| Magnesium, Dissolved | ug/L | 1000 | 1060 | 106 | 80-120 | |
| Manganese, Dissolved | mg/L | .08 | 0.079 | 99 | 80-120 | |
| Potassium, Dissolved | ug/L | 1000 | 1010 | 101 | 80-120 | |
| Sodium, Dissolved | ug/L | 1000 | 1110 | 111 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1681906 1681907

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|----------------------|-------|--------------------|-------------|-------------|-----------|-----------|------------|----------|-----------|--------------|---------|------|
| | | 10265918021 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | |
| Calcium, Dissolved | ug/L | 0.20 mg/L | 1000 | 1000 | 1260 | 1160 | 106 | 95 | 75-125 | 9 | 20 | |
| Iron, Dissolved | mg/L | ND | 1 | 1 | 1.1 | 1.1 | 111 | 114 | 75-125 | 2 | 20 | |
| Magnesium, Dissolved | ug/L | 0.033 mg/L | 1000 | 1000 | 1130 | 1090 | 110 | 106 | 75-125 | 3 | 20 | |
| Manganese, Dissolved | mg/L | 0.97 ug/L | .08 | .08 | 0.083 | 0.081 | 102 | 99 | 75-125 | 3 | 20 | |
| Potassium, Dissolved | ug/L | ND | 1000 | 1000 | 1070 | 1020 | 105 | 99 | 75-125 | 5 | 20 | |
| Sodium, Dissolved | ug/L | 0.12 mg/L | 1000 | 1000 | 1180 | 1130 | 106 | 102 | 75-125 | 4 | 20 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

QC Batch: MSV/27055 Analysis Method: EPA 8260B
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV LL Water
 Associated Lab Samples: 10265966001, 10265966002, 10265966003, 10265966004, 10265966005, 10265966006, 10265966007, 10265966008, 10265966009, 10265966010, 10265966011, 10265966012

METHOD BLANK: 1678317 Matrix: Water
 Associated Lab Samples: 10265966001, 10265966002, 10265966003, 10265966004, 10265966005, 10265966006, 10265966007, 10265966008, 10265966009, 10265966010, 10265966011, 10265966012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.10 | 0.50 | 05/13/14 03:43 | |
| 1,1,1-Trichloroethane | ug/L | <0.17 | 0.50 | 05/13/14 03:43 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.075 | 0.50 | 05/13/14 03:43 | |
| 1,1,2-Trichloroethane | ug/L | <0.10 | 0.50 | 05/13/14 03:43 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | <0.16 | 1.0 | 05/13/14 03:43 | |
| 1,1-Dichloroethane | ug/L | <0.077 | 0.50 | 05/13/14 03:43 | |
| 1,1-Dichloroethene | ug/L | <0.13 | 0.50 | 05/13/14 03:43 | |
| 1,2,3-Trichloropropane | ug/L | <1.2 | 4.0 | 05/13/14 03:43 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.25 | 0.50 | 05/13/14 03:43 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <2.0 | 4.0 | 05/13/14 03:43 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.097 | 0.50 | 05/13/14 03:43 | |
| 1,2-Dichlorobenzene | ug/L | <0.082 | 0.50 | 05/13/14 03:43 | |
| 1,2-Dichloroethane | ug/L | <0.093 | 0.50 | 05/13/14 03:43 | |
| 1,2-Dichloropropane | ug/L | <0.10 | 4.0 | 05/13/14 03:43 | |
| 1,4-Dichlorobenzene | ug/L | <0.25 | 0.50 | 05/13/14 03:43 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | <28.7 | 200 | 05/13/14 03:43 | |
| 2-Butanone (MEK) | ug/L | <2.5 | 5.0 | 05/13/14 03:43 | |
| 2-Hexanone | ug/L | <2.5 | 5.0 | 05/13/14 03:43 | |
| 2-Propanol | ug/L | <50.0 | 100 | 05/13/14 03:43 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <2.5 | 5.0 | 05/13/14 03:43 | |
| Acetone | ug/L | <10.0 | 20.0 | 05/13/14 03:43 | |
| Acrylonitrile | ug/L | <1.0 | 10.0 | 05/13/14 03:43 | |
| Benzene | ug/L | <0.073 | 0.50 | 05/13/14 03:43 | |
| Bromochloromethane | ug/L | <0.15 | 1.0 | 05/13/14 03:43 | |
| Bromodichloromethane | ug/L | <0.11 | 0.50 | 05/13/14 03:43 | |
| Bromoform | ug/L | <2.0 | 4.0 | 05/13/14 03:43 | |
| Bromomethane | ug/L | <2.0 | 4.0 | 05/13/14 03:43 | |
| Carbon disulfide | ug/L | <0.12 | 1.0 | 05/13/14 03:43 | |
| Carbon tetrachloride | ug/L | <0.17 | 1.0 | 05/13/14 03:43 | |
| Chlorobenzene | ug/L | <0.066 | 0.50 | 05/13/14 03:43 | |
| Chloroethane | ug/L | <0.17 | 1.0 | 05/13/14 03:43 | |
| Chloroform | ug/L | <0.20 | 0.50 | 05/13/14 03:43 | |
| Chloromethane | ug/L | <0.34 | 4.0 | 05/13/14 03:43 | |
| cis-1,2-Dichloroethene | ug/L | <0.11 | 0.50 | 05/13/14 03:43 | |
| cis-1,3-Dichloropropene | ug/L | <0.088 | 0.50 | 05/13/14 03:43 | |
| Cyclohexane | ug/L | <2.5 | 5.0 | 05/13/14 03:43 | |
| Dibromochloromethane | ug/L | <0.086 | 0.50 | 05/13/14 03:43 | |
| Dibromomethane | ug/L | <0.18 | 0.50 | 05/13/14 03:43 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 1.0 | 05/13/14 03:43 | |
| Ethylbenzene | ug/L | <0.096 | 0.50 | 05/13/14 03:43 | |
| Iodomethane | ug/L | <2.0 | 4.0 | 05/13/14 03:43 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

METHOD BLANK: 1678317

Matrix: Water

Associated Lab Samples: 10265966001, 10265966002, 10265966003, 10265966004, 10265966005, 10265966006, 10265966007, 10265966008, 10265966009, 10265966010, 10265966011, 10265966012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| Isopropylbenzene (Cumene) | ug/L | <0.068 | 0.50 | 05/13/14 03:43 | |
| Methyl-tert-butyl ether | ug/L | <0.078 | 0.50 | 05/13/14 03:43 | |
| Methylene Chloride | ug/L | <2.0 | 4.0 | 05/13/14 03:43 | |
| n-Hexane | ug/L | <5.0 | 10.0 | 05/13/14 03:43 | |
| n-Propylbenzene | ug/L | <0.077 | 0.50 | 05/13/14 03:43 | |
| Styrene | ug/L | <0.064 | 0.50 | 05/13/14 03:43 | |
| Tetrachloroethene | ug/L | <0.099 | 0.50 | 05/13/14 03:43 | |
| Tetrahydrofuran | ug/L | <0.98 | 10.0 | 05/13/14 03:43 | |
| Toluene | ug/L | <0.11 | 0.50 | 05/13/14 03:43 | |
| trans-1,2-Dichloroethene | ug/L | <0.15 | 0.50 | 05/13/14 03:43 | |
| trans-1,3-Dichloropropene | ug/L | <0.11 | 0.50 | 05/13/14 03:43 | |
| trans-1,4-Dichloro-2-butene | ug/L | <5.0 | 10.0 | 05/13/14 03:43 | |
| Trichloroethene | ug/L | <0.084 | 0.40 | 05/13/14 03:43 | |
| Trichlorofluoromethane | ug/L | <0.12 | 0.50 | 05/13/14 03:43 | |
| Vinyl acetate | ug/L | <0.13 | 10.0 | 05/13/14 03:43 | |
| Vinyl chloride | ug/L | <0.20 | 0.20 | 05/13/14 03:43 | |
| Xylene (Total) | ug/L | <0.20 | 1.5 | 05/13/14 03:43 | |
| 1,2-Dichloroethane-d4 (S) | % | 111 | 75-125 | 05/13/14 03:43 | |
| 4-Bromofluorobenzene (S) | % | 104 | 75-125 | 05/13/14 03:43 | |
| Toluene-d8 (S) | % | 104 | 75-125 | 05/13/14 03:43 | |

LABORATORY CONTROL SAMPLE: 1678318

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 19.4 | 97 | 75-125 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 19.0 | 95 | 73-125 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 15.9 | 80 | 74-125 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 17.4 | 87 | 75-125 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | 20 | 17.4 | 87 | 56-133 | |
| 1,1-Dichloroethane | ug/L | 20 | 17.2 | 86 | 75-125 | |
| 1,1-Dichloroethene | ug/L | 20 | 16.8 | 84 | 70-125 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 16.4 | 82 | 75-125 | |
| 1,2,4-Trimethylbenzene | ug/L | 20 | 16.3 | 82 | 75-125 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 49.5 | 99 | 70-125 | |
| 1,2-Dibromoethane (EDB) | ug/L | 20 | 18.1 | 90 | 75-125 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 15.8 | 79 | 75-125 | |
| 1,2-Dichloroethane | ug/L | 20 | 19.0 | 95 | 75-125 | |
| 1,2-Dichloropropane | ug/L | 20 | 18.3 | 92 | 75-125 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 15.5 | 78 | 75-125 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | 400 | 368 | 92 | 73-128 | |
| 2-Butanone (MEK) | ug/L | 100 | 87.1 | 87 | 64-126 | |
| 2-Hexanone | ug/L | 100 | 82.5 | 83 | 69-127 | |
| 2-Propanol | ug/L | 200 | 152 | 76 | 57-132 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 81.2 | 81 | 71-125 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

LABORATORY CONTROL SAMPLE: 1678318

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Acetone | ug/L | 100 | 84.3 | 84 | 66-131 | |
| Acrylonitrile | ug/L | 200 | 164 | 82 | 68-127 | |
| Benzene | ug/L | 20 | 18.0 | 90 | 75-125 | |
| Bromochloromethane | ug/L | 20 | 17.3 | 87 | 75-125 | |
| Bromodichloromethane | ug/L | 20 | 20.0 | 100 | 75-125 | |
| Bromoform | ug/L | 20 | 19.2 | 96 | 70-125 | |
| Bromomethane | ug/L | 20 | 20.3 | 101 | 30-150 | |
| Carbon disulfide | ug/L | 20 | 14.5 | 73 | 60-125 | |
| Carbon tetrachloride | ug/L | 20 | 18.1 | 91 | 68-129 | |
| Chlorobenzene | ug/L | 20 | 16.5 | 82 | 75-125 | |
| Chloroethane | ug/L | 20 | 23.4 | 117 | 68-133 | |
| Chloroform | ug/L | 20 | 19.1 | 95 | 75-125 | |
| Chloromethane | ug/L | 20 | 19.6 | 98 | 57-140 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 16.7 | 84 | 75-125 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 15.7 | 79 | 75-125 | |
| Cyclohexane | ug/L | 100 | 76.8 | 77 | 57-127 | |
| Dibromochloromethane | ug/L | 20 | 18.5 | 92 | 75-125 | |
| Dibromomethane | ug/L | 20 | 18.4 | 92 | 75-125 | |
| Dichlorodifluoromethane | ug/L | 20 | 21.4 | 107 | 50-134 | |
| Ethylbenzene | ug/L | 20 | 16.5 | 83 | 75-125 | |
| Iodomethane | ug/L | 20 | 19.5 | 98 | 30-150 | |
| Isopropylbenzene (Cumene) | ug/L | 20 | 17.3 | 87 | 73-125 | |
| Methyl-tert-butyl ether | ug/L | 20 | 17.3 | 87 | 75-125 | |
| Methylene Chloride | ug/L | 20 | 18.7 | 93 | 75-125 | |
| n-Hexane | ug/L | 50 | 34.5 | 69 | 30-150 | |
| n-Propylbenzene | ug/L | 20 | 16.4 | 82 | 72-125 | |
| Styrene | ug/L | 20 | 17.4 | 87 | 75-125 | |
| Tetrachloroethene | ug/L | 20 | 16.4 | 82 | 71-125 | |
| Tetrahydrofuran | ug/L | 200 | 164 | 82 | 70-125 | |
| Toluene | ug/L | 20 | 16.9 | 84 | 75-125 | |
| trans-1,2-Dichloroethene | ug/L | 20 | 15.9 | 79 | 73-125 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 18.5 | 92 | 75-125 | |
| trans-1,4-Dichloro-2-butene | ug/L | 50 | 41.6 | 83 | 63-127 | |
| Trichloroethene | ug/L | 20 | 16.2 | 81 | 75-125 | |
| Trichlorofluoromethane | ug/L | 20 | 19.0 | 95 | 70-128 | |
| Vinyl acetate | ug/L | 20 | 19.3 | 96 | 59-131 | |
| Vinyl chloride | ug/L | 20 | 20.0 | 100 | 70-130 | |
| Xylene (Total) | ug/L | 60 | 49.8 | 83 | 75-125 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 105 | 75-125 | |
| 4-Bromofluorobenzene (S) | % | | | 98 | 75-125 | |
| Toluene-d8 (S) | % | | | 99 | 75-125 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1678319 1678320

| Parameter | Units | 10265834002 | | MS | | MSD | | % Rec | % Rec | % Rec | Max | Qual |
|---------------------------|-------|-------------|-------|-------------|-------------|--------|--------|-------|--------|-------|-----|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | Result | Result | | | | | |
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 20 | 20 | 20.5 | 20.8 | 102 | 104 | 74-131 | 2 | 30 | |

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QUALITY CONTROL DATA

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

| Parameter | 10265834002 | | MS | | MSD | | MS | | MSD | | MS | | MSD | | % Rec | | Max | | Qual |
|--------------------------------|-------------|--------|-------------|-----------------|-----------|------------|----------|-----------|----------|-----------|--------|-----|-----|-----|-------|--|-----|--|------|
| | Units | Result | Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | MS % Rec | MSD % Rec | Limits | RPD | RPD | RPD | RPD | | | | |
| 1,1,1-Trichloroethane | ug/L | ND | 20 | 20 | 21.8 | 21.3 | 109 | 107 | 73-139 | 2 | 30 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 20 | 20 | 20.3 | 20.3 | 101 | 102 | 72-125 | .3 | 30 | | | | | | | | |
| 1,1,2-Trichloroethane | ug/L | ND | 20 | 20 | 20.1 | 19.7 | 100 | 99 | 75-125 | 2 | 30 | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | ND | 20 | 20 | 22.4 | 21.7 | 112 | 108 | 68-150 | 3 | 30 | | | | | | | | |
| 1,1-Dichloroethane | ug/L | ND | 20 | 20 | 19.7 | 19.8 | 99 | 99 | 73-132 | .1 | 30 | | | | | | | | |
| 1,1-Dichloroethene | ug/L | ND | 20 | 20 | 18.5 | 19.3 | 93 | 97 | 71-142 | 4 | 30 | | | | | | | | |
| 1,2,3-Trichloropropane | ug/L | ND | 20 | 20 | 20.7 | 20.8 | 104 | 104 | 74-125 | .4 | 30 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ug/L | ND | 20 | 20 | 19.6 | 20.1 | 96 | 98 | 72-136 | 2 | 30 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 50 | 50 | 69.6 | 69.8 | 139 | 140 | 66-127 | .3 | 30 | M1 | | | | | | | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 20 | 20 | 19.7 | 19.7 | 99 | 99 | 75-125 | .04 | 30 | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | ND | 20 | 20 | 17.1 | 16.7 | 86 | 83 | 75-125 | 3 | 30 | | | | | | | | |
| 1,2-Dichloroethane | ug/L | ND | 20 | 20 | 21.5 | 21.6 | 107 | 108 | 68-128 | .5 | 30 | | | | | | | | |
| 1,2-Dichloropropane | ug/L | ND | 20 | 20 | 20.7 | 21.0 | 104 | 105 | 74-131 | 1 | 30 | | | | | | | | |
| 1,4-Dichlorobenzene | ug/L | ND | 20 | 20 | 16.8 | 15.8 | 84 | 79 | 73-125 | 6 | 30 | | | | | | | | |
| 1,4-Dioxane (p-Dioxane) | ug/L | ND | 400 | 400 | 400 | 366 | 100 | 91 | 64-137 | 9 | 30 | | | | | | | | |
| 2-Butanone (MEK) | ug/L | ND | 100 | 100 | 111 | 115 | 111 | 115 | 56-140 | 3 | 30 | | | | | | | | |
| 2-Hexanone | ug/L | ND | 100 | 100 | 119 | 122 | 119 | 122 | 63-132 | 3 | 30 | | | | | | | | |
| 2-Propanol | ug/L | ND | 200 | 200 | 177 | 220 | 88 | 110 | 30-150 | 22 | 30 | | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 100 | 100 | 110 | 112 | 110 | 112 | 69-128 | 2 | 30 | | | | | | | | |
| Acetone | ug/L | ND | 100 | 100 | 106 | 104 | 101 | 100 | 57-143 | 1 | 30 | | | | | | | | |
| Acrylonitrile | ug/L | ND | 200 | 200 | 203 | 209 | 102 | 105 | 50-149 | 3 | 30 | | | | | | | | |
| Benzene | ug/L | ND | 20 | 20 | 20.0 | 20.2 | 100 | 101 | 75-129 | 1 | 30 | | | | | | | | |
| Bromochloromethane | ug/L | ND | 20 | 20 | 18.2 | 18.2 | 91 | 91 | 75-126 | .09 | 30 | | | | | | | | |
| Bromodichloromethane | ug/L | ND | 20 | 20 | 23.3 | 23.3 | 116 | 116 | 75-128 | .1 | 30 | | | | | | | | |
| Bromoform | ug/L | ND | 20 | 20 | 22.0 | 22.4 | 110 | 112 | 66-130 | 2 | 30 | | | | | | | | |
| Bromomethane | ug/L | ND | 20 | 20 | 22.5 | 25.4 | 112 | 127 | 30-150 | 12 | 30 | | | | | | | | |
| Carbon disulfide | ug/L | ND | 20 | 20 | 16.7 | 16.9 | 83 | 85 | 56-140 | 2 | 30 | | | | | | | | |
| Carbon tetrachloride | ug/L | ND | 20 | 20 | 22.3 | 21.3 | 111 | 106 | 69-148 | 5 | 30 | | | | | | | | |
| Chlorobenzene | ug/L | ND | 20 | 20 | 18.0 | 18.1 | 90 | 90 | 75-125 | .3 | 30 | | | | | | | | |
| Chloroethane | ug/L | ND | 20 | 20 | 24.7 | 29.2 | 123 | 145 | 71-143 | 17 | 30 | M1 | | | | | | | |
| Chloroform | ug/L | ND | 20 | 20 | 20.9 | 22.0 | 105 | 110 | 75-126 | 5 | 30 | | | | | | | | |
| Chloromethane | ug/L | ND | 20 | 20 | 22.4 | 21.7 | 112 | 109 | 55-150 | 3 | 30 | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 18.7 | 20.4 | 93 | 102 | 75-130 | 9 | 30 | | | | | | | | |
| cis-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 17.5 | 17.3 | 87 | 87 | 72-129 | 1 | 30 | | | | | | | | |
| Cyclohexane | ug/L | ND | 100 | 100 | 90.5 | 87.0 | 90 | 87 | 56-150 | 4 | 30 | | | | | | | | |
| Dibromochloromethane | ug/L | ND | 20 | 20 | 20.9 | 21.2 | 104 | 106 | 73-129 | 2 | 30 | | | | | | | | |
| Dibromomethane | ug/L | ND | 20 | 20 | 21.9 | 20.9 | 109 | 105 | 75-125 | 5 | 30 | | | | | | | | |
| Dichlorodifluoromethane | ug/L | ND | 20 | 20 | 26.1 | 24.4 | 130 | 122 | 70-150 | 7 | 30 | | | | | | | | |
| Ethylbenzene | ug/L | ND | 20 | 20 | 19.0 | 19.5 | 95 | 98 | 75-128 | 3 | 30 | | | | | | | | |
| Iodomethane | ug/L | ND | 20 | 20 | 16.8 | 18.8 | 84 | 94 | 30-150 | 11 | 30 | | | | | | | | |
| Isopropylbenzene (Cumene) | ug/L | ND | 20 | 20 | 19.2 | 18.6 | 94 | 91 | 75-131 | 4 | 30 | | | | | | | | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 20 | 19.6 | 19.4 | 98 | 97 | 74-128 | .7 | 30 | | | | | | | | |
| Methylene Chloride | ug/L | ND | 20 | 20 | 19.5 | 18.7 | 97 | 93 | 69-125 | 4 | 30 | | | | | | | | |
| n-Hexane | ug/L | ND | 50 | 50 | 30.4 | 28.4 | 61 | 57 | 30-150 | 7 | 30 | | | | | | | | |
| n-Propylbenzene | ug/L | ND | 20 | 20 | 17.4 | 16.4 | 85 | 81 | 72-131 | 6 | 30 | | | | | | | | |
| Styrene | ug/L | ND | 20 | 20 | 16.6 | 16.2 | 83 | 81 | 75-128 | 2 | 30 | | | | | | | | |
| Tetrachloroethene | ug/L | ND | 20 | 20 | 17.0 | 16.3 | 85 | 81 | 68-140 | 5 | 30 | | | | | | | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

| Parameter | 10265834002 | | MS | | MSD | | MS | | MSD | | % Rec Limits | Max RPD | Qual |
|-----------------------------|-------------|--------|-------------|-------------|--------|--------|-------|-------|--------|----|--------------|---------|------|
| | Units | Result | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | | | | | |
| Tetrahydrofuran | ug/L | ND | 200 | 200 | 186 | 181 | 93 | 90 | 65-131 | 3 | 30 | | |
| Toluene | ug/L | ND | 20 | 20 | 18.5 | 18.7 | 91 | 92 | 75-129 | 1 | 30 | | |
| trans-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 17.9 | 19.0 | 89 | 95 | 70-136 | 6 | 30 | | |
| trans-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 20.0 | 20.1 | 100 | 100 | 71-125 | .2 | 30 | | |
| trans-1,4-Dichloro-2-butene | ug/L | ND | 50 | 50 | 55.8 | 53.9 | 112 | 108 | 57-136 | 3 | 30 | | |
| Trichloroethene | ug/L | ND | 20 | 20 | 17.4 | 17.7 | 87 | 89 | 72-135 | 2 | 30 | | |
| Trichlorofluoromethane | ug/L | ND | 20 | 20 | 25.5 | 23.1 | 127 | 116 | 75-150 | 10 | 30 | | |
| Vinyl acetate | ug/L | ND | 20 | 20 | 24.9 | 25.4 | 124 | 127 | 55-132 | 2 | 30 | | |
| Vinyl chloride | ug/L | ND | 20 | 20 | 22.6 | 22.0 | 113 | 110 | 73-150 | 3 | 30 | | |
| Xylene (Total) | ug/L | ND | 60 | 60 | 60.7 | 59.9 | 101 | 100 | 75-129 | 1 | 30 | | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 106 | 106 | 75-125 | | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 100 | 101 | 75-125 | | | | |
| Toluene-d8 (S) | % | | | | | | 97 | 98 | 75-125 | | | | |

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QUALITY CONTROL DATA

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

QC Batch: MT/15514 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 10265966002, 10265966009

METHOD BLANK: 1674117 Matrix: Water

Associated Lab Samples: 10265966002, 10265966009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride | mg/L | <0.50 | 1.0 | 05/07/14 18:32 | |
| Sulfate | mg/L | <0.50 | 1.0 | 05/07/14 18:32 | |

LABORATORY CONTROL SAMPLE: 1674118

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 10 | 10.3 | 103 | 90-110 | |
| Sulfate | mg/L | 10 | 10.8 | 108 | 90-110 | |

MATRIX SPIKE SAMPLE: 1674119

| Parameter | Units | 10265585003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chloride | mg/L | 11000 ug/L | 10 | 21.9 | 109 | 90-110 | |
| Sulfate | mg/L | 531000 ug/L | 500 | 1020 | 98 | 90-110 | |

SAMPLE DUPLICATE: 1674120

| Parameter | Units | 10265966002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|---------|------------|
| Chloride | mg/L | 103 | 102 | .9 | 20 | |
| Sulfate | mg/L | 3.4 | 3.3 | 3 | 20 | |

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QUALITY CONTROL DATA

Project: 114-710303A Bozeman Landfill
Pace Project No.: 10265966

QC Batch: WET/35567 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 10265966002, 10265966009

METHOD BLANK: 1679891 Matrix: Water
Associated Lab Samples: 10265966002, 10265966009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | <2.5 | 5.0 | 05/14/14 11:14 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | <2.5 | 5.0 | 05/14/14 11:14 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | <2.5 | 5.0 | 05/14/14 11:14 | |

LABORATORY CONTROL SAMPLE & LCSD: 1679892 1679893

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 40 | 41.2 | 41.6 | 103 | 104 | 90-110 | 1 | 30 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679894 1679895

| Parameter | Units | 10266008002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 148 | 40 | 40 | 184 | 184 | 92 | 92 | 80-120 | .04 | 30 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679896 1679897

| Parameter | Units | 10266036001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 40.4 | 40 | 40 | 79.8 | 79.8 | 99 | 99 | 80-120 | .06 | 30 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679898 1679899

| Parameter | Units | 10266036003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 16.4 | 40 | 40 | 57.6 | 57.6 | 103 | 103 | 80-120 | .07 | 30 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679900 1679901

| Parameter | Units | 10266036009 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 21.7 | 40 | 40 | 61.0 | 61.2 | 98 | 99 | 80-120 | .2 | 30 | |

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ANALYTICAL RESULTS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

Sample: MW-18 **Lab ID: 10265966002** Collected: 05/02/14 12:30 Received: 05/06/14 10:35 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|-----------|--------------------------------------|-------|----------------|------------|------|
| Tritium | EPA 906.0 | 23.6 ± 130 (228) C:NA T:NA | pCi/L | 05/16/14 07:38 | 10028-17-8 | |

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QUALITY CONTROL DATA

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

QC Batch: RADC/19800

Analysis Method: EPA 906.0

QC Batch Method: EPA 906.0

Analysis Description: 906.0 Tritium

Associated Lab Samples: 10265966002

METHOD BLANK: 730234

Matrix: Water

Associated Lab Samples:

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|-----------|----------------------------|-------|----------------|------------|
| Tritium | 63.6 ± 120 (204) C:NA T:NA | pCi/L | 05/15/14 23:29 | |

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

PASI-MT Pace Analytical Services - Montana

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 114-710303A Bozeman Landfill

Pace Project No.: 10265966

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------|-----------------|------------|-------------------|------------------|
| 10265966002 | MW-18 | EPA 3020 | MPRP/45933 | EPA 6020 | ICPM/20009 |
| 10265966009 | MW-25 | EPA 3020 | MPRP/45933 | EPA 6020 | ICPM/20009 |
| 10265966001 | MW-17 | EPA 8260B | MSV/27055 | | |
| 10265966002 | MW-18 | EPA 8260B | MSV/27055 | | |
| 10265966003 | MW-19 | EPA 8260B | MSV/27055 | | |
| 10265966004 | MW-20 | EPA 8260B | MSV/27055 | | |
| 10265966005 | MW-21 | EPA 8260B | MSV/27055 | | |
| 10265966006 | MW-22 | EPA 8260B | MSV/27055 | | |
| 10265966007 | MW-23 | EPA 8260B | MSV/27055 | | |
| 10265966008 | MW-24 | EPA 8260B | MSV/27055 | | |
| 10265966009 | MW-25 | EPA 8260B | MSV/27055 | | |
| 10265966010 | MW-26 | EPA 8260B | MSV/27055 | | |
| 10265966011 | DUP | EPA 8260B | MSV/27055 | | |
| 10265966012 | TRIP BLANK | EPA 8260B | MSV/27055 | | |
| 10265966002 | MW-18 | EPA 300.0 | MT/15514 | | |
| 10265966009 | MW-25 | EPA 300.0 | MT/15514 | | |
| 10265966002 | MW-18 | EPA 906.0 | RADC/19800 | | |
| 10265966002 | MW-18 | SM 2320B | WET/35567 | | |
| 10265966009 | MW-25 | SM 2320B | WET/35567 | | |

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | | | |
|---|---------------------------------------|--|-------------------|
| Section A | Section B | Section C | Section D |
| Required Client Information: | Required Project Information: | Invoice Information: | Matrix Codes |
| Company: <u>WaterTech</u> | Report To: <u>Dr. Ste. G</u> | Attention: <u>Deb Lloyd</u> | DW Drinking Water |
| Contact: <u>851 Bridges Dr. Ste 6</u> | Copy To: | Company Name: | WT Water |
| Email To: <u>Mick Pearson@Watertech.com</u> | Project Order No.: | Address: | WW Waste Water |
| Phone: <u>802-878801</u> | Project Name: <u>Bozeman Landfill</u> | REGULATORY AGENCY: | P Product |
| Fax: <u>802-878801</u> | Project Number: <u>114-710303A</u> | <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER | SL Soils |
| Requested Due Date/TAT: | | <input type="checkbox"/> UST <input type="checkbox"/> RCRA | OL Oil |
| | | Site Location: <u>MT</u> | WP Wipe |
| | | STATE: <u>MT</u> | AR Air |
| | | | TS Tissue |
| | | | OT Other |

Page: 1 of 1
 1728863

| ITEM # | SAMPLE ID (A-Z, 0-9 / .) | COLLECTED | | SAMPLE TYPE (G=GRAB C=COMP) | # OF CONTAINERS | PRESERVATIVES | ANALYSIS TEST | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No. / Lab I.D. |
|--|-----------------------------|-----------------|--------------------|-----------------------------|-----------------|--------------------------------|------------------------------|-----------------------------------|-------------------------|-----------------------------|
| | | COMPOSITE START | COMPOSITE END/SBAS | | | | | | | |
| 1 | MW-17 | | | | 3 | Unpreserved | 826C (VOCs) | | | 001 |
| 2 | 18 | | | | 3 | H ₂ SO ₄ | Fe & Mn | | | 002 |
| 3 | 19 | | | | 3 | HNO ₃ | Cations | | | 003 |
| 4 | 20 | | | | 1 | HCl | Anions | | | 004 |
| 5 | 21 | | | | 1 | NaOH | Chloride, Sulfate, Trifluoro | | | 005 |
| 6 | 22 | | | | 1 | Methanol | | | | 006 |
| 7 | 23 | | | | 4 | Other | | | | 007 |
| 8 | 24 | | | | 6 | | | | | 008 |
| 9 | 25 | | | | 3 | | | | | 009 |
| 10 | 26 | | | | 3 | | | | | 010 |
| 11 | DUP | | | | 3 | | | | | 011 |
| 12 | Trip Blank | | | | 2 | | | | | 012 |
| ADDITIONAL COMMENTS | | | | | | | | | | |
| 1 cooler shipped overnight to Pace in Billings MT | | | | | | | | | | |
| Requested by Affiliation: <u>Multistate - Pace Skid 1035</u> | | | | | | | | | | |
| Date: <u>5/5/14</u> Time: <u>1500</u> | | | | | | | | | | |
| Accepted by Affiliation: <u>Mick Pearson</u> | | | | | | | | | | |
| Date: <u>5/5/14</u> Time: <u>1035</u> | | | | | | | | | | |
| Temp In °C: <u>0.8</u> | | | | | | | | | | |
| Received on Ice (Y/N): <u>Y</u> | | | | | | | | | | |
| Custody Sealed Cooler (Y/N): <u>Y</u> | | | | | | | | | | |
| Samples Intact (Y/N): <u>Y</u> | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mick Pearson DATE Signed (MM/DD/YY): 5/5/14


SIGNATURE of SAMPLER: Mick Pearson

ORIGINAL

Sample Condition Upon Receipt

Client Name: TT-Boz Project #: _____

WO#: 10265966



10265966

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____
 Tracking Number: 6021 2783 4373

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermometer Used: 1383045 135 NA Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read: 0.2

Date and Initials of Person Examining Contents: MW 5/6/14

Cooler Temp Corrected: 0.2

Biological Tissue Frozen? Yes No

Temp should be above freezing to 6°C

Comments:

| | | | |
|--|--|-----|--|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name and Signature on COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72 hr)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered Volume Received for Dissolved Tests? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes Date/Time/ID/Analysis Matrix: <u>H2O</u> | | | |
| All containers needing acid/base preservation have been checked? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl |
| All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | Sample # |
| Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Initial when completed: <u>MW</u> Lot # of added preservative: <u>MW</u> |
| Headspace in VOA Vials (>6mm)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 14. | |
| Trip Blank Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 15. | |
| Trip Blank Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): <u>031214-384P</u> | | | |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No


Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: MW

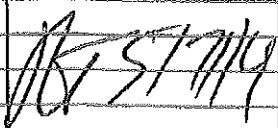
Date: 5-6-14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

| | | |
|--|---|---|
|  | Document Name: MN Sample Transfer Form | Revised Date: 01May2014 Page: 1 of 1 |
| | Document Number: F-MT-C-179-rev.06 | Issuing Authority: Pace Minnesota Quality Office |

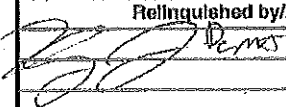

| | |
|--------------------|----------------|
| Shipping (circle): | UPS Fed Ex |
| Tracking #: | 6021 2783 9152 |
| Client: | Tetra Tech |
| Due Date: | 19-May-2014 |
| Pace WO: | 10265986 |
| Project Manager: | Samantha Rupe |

MT to MN Sample Transfer Condition Upon Receipt Form

| ANALYSIS REQUESTED | | | | | |
|-----------------------------|----------------|--------------|-------------|------------------------|---|
| Method Number & Description | Container Type | # of Bottles | Lab ID's | Preservative Yes or No | Verify Arrival Date & Initials |
| Tests | | | | | |
| 8280 VOC's | VG9H | 33 | 001-011 | Yes |  |
| Trip Blank | VG9H | 2 | 012 | Yes | |
| Dissolved Metals | BP3N | 2 | 002 and 009 | Yes | |
| Alkalinity | BP3U | 2 | 002 and 009 | No | |
| | | | | | |
| | | | | | |
| | | | | | |

| REPORTING REQUIREMENTS/ADDITIONAL COMMENTS |
|--|
| |
| |
| |

| MINNESOTA SAMPLE RECEIPT INFORMATION | | | |
|--|---|--|--|
| IR Gun (circle): 80512447, B88A912167504, 72337080 | Correction Factor: 1.02 | Sample Matrix: | WT |
| Cooler Temp Read (°C): 0.9 | Cooler Temp Corrected (°C): 1.1 | Filtered volume rec'd for dissolved tests: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> |
| Arrived on Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Samples pH have been checked: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> <i>3/14/14</i> |
| Custody Seal Present: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Trip Blank Present: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> |
| Short Hold Time Requested < 72 Hours: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Trip Blank Custody Seals Present: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> |
| Rush TAT Requested: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Pace Trip Blank Lot #: | R20 + visible |
| Sufficient Sample Volume: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Sample Composites Required: | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> |
| Samples Arrived within Hold Time: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Report Samples: | Wet Wt. <input type="checkbox"/> Dry Wt. <input type="checkbox"/> |
| Containers Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Reporting Units: | |

| CUSTODY TRANSFER | | | | | |
|--|---------|------|--|--------|------|
| Relinquished by/Affiliation | Date | Time | Accepted By/Affiliation | Date | Time |
|  DeMS | 5/16/14 | 6:00 |  T. G. PRICE | 5-7-14 | 9:20 |
| | | | | | |

| CLIENT NOTIFICATION/RESOLUTION | |
|--------------------------------|-------------|
| Person Contacted: _____ | Date: _____ |
| Comments/Resolution: _____ | |

Project Manager Review:  Date: 5-7-14