

Annual Groundwater Monitoring Report, November 2015 and May 2016 Sampling Events, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Town of Ashippun, Wisconsin

EPA ID# WID006100275, BRRTS# 02-14-000905







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August 23, 2016

Prepared For:
Wisconsin Department of Natural Resources
101 S. Webster Street
P.O. Box 7921
Madison, WI 53707-7921

Prepared By:
Tetra Tech, Inc.
Brookfield Lakes Corporate Center XII
175 N. Corporate Drive, Suite 100
Brookfield, WI 53045

Mark A. Manthey, P.G. Associate Hydrogeologist (262)792-1282, extension 271 Mark.Manthey@tetratech.com

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ashley Kowalewski Prepared By: August 23, 2016 Date

Ashley M. Kowalewski

Staff Geologist Tetra Tech Inc.

August 23, 2016

Date

Reviewed By:

Mark Manthey, P.G. Project Manager Tetra Tech Inc.

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ACRONYMS AND ABBREVIATIONS

cis-DCE cis-1-2-Dichloroethene

CVOCs Chlorinated Volatile Organic Compounds

DO Dissolved Oxygen

ES NR140 Enforcement Standard

mg/L Milligrams per Liter

MIP Membrane Interface Probe MNA Monitored Natural Attenuation

MS/MSD Matrix Spike/Matrix Spike Duplicate

OECI Oconomowoc Electroplating Company Inc.

ORP Oxidation-Reduction Potential
PAL NR140 Preventive Action Limit

P/T Pump and Treat

QA/QC Quality Assurance/Quality Control

RI/FS Remedial Investigation/Feasibility Study

ROD Record of Decision

trans-DCE trans-1,2-Dichloroethene

TCE Trichloroethene

TOC Total Organic Carbon

WAC Wisconsin Administrative Code

μg/L Micrograms per Liter

EPA United States Environmental Protection Agency

VC Vinyl Chloride

VOCs Volatile Organic Compounds

WDNR Wisconsin Department of Natural Resources

1.0 INTRODUCTION

This Annual Groundwater Water Monitoring Report presents the data obtained from the November 2015 and May 2016 groundwater monitoring events completed by Tetra Tech personnel on and in the vicinity of the Oconomowoc Electroplating Company Inc. (OECI) Superfund Site located at W2573 Oak Street in the Town of Ashippun, Dodge County, Wisconsin (Figure 1). The groundwater monitoring activities were performed in accordance with the scope of work and field operating procedures presented in the November 2014 Quality Assurance/Quality Control (QA/QC) Plan prepared by Tetra Tech for the OECI Site. The groundwater monitoring activities were performed to document the effectiveness of the monitored natural attenuation (MNA) remedy in remediating the chlorinated volatile organic compounds (CVOCs) impacts found in the groundwater on and downgradient of the OECI Site and to ensure it is protective of the nearby private water supply wells. A minor objective of the groundwater monitoring program is to use the data from the existing monitoring well network to gain a better understanding of the effects the June 2013 in-situ treatment of the contaminated soil in Area A on the OECI Site with Daramend has on CVOC concentrations in the groundwater.

2.0 OECI SITE BACKGROUND

The following background information is taken from the June 2014 request for proposal for the OECI Site prepared by the Wisconsin Department of Natural Resources (WDNR).

The OECI Site is located at W2573 Oak Street in the Town Ashippun, Dodge County Wisconsin (Figure 1). The site is approximately 10.5 acres in size. Ashippun residents rely on private wells for their source of water. The bedrock beneath the OECI Site is the Maquoketa shale underlain by dolomite of the Galena-Platteville aquifer. Private water supply wells in the vicinity of the OECI Site are completed in the Galena-Platteville aquifer.

The OECI Site consists of a 4-acre former electroplating facility and the adjacent 6.5-acre wetland area that includes a portion of Davy Creek, which is a tributary of the Rock River. The electroplating facility operated from 1957 to 1990, discharging directly into Davy Creek until 1972 when two waste lagoons were constructed. The facility included a main process building, a wastewater-treatment building, the waste lagoons and other miscellaneous storage tank and container deposit areas. Between 1991 and 1994, remedial actions at the site removed: 1) All of the facility structures; 2) 650 cubic yards of waste lagoon sediment/sludge; 3) Approximately 700 cubic yards of contaminated soil; and 4) Approximately 6,000 cubic yards of contaminated sediments in the wetlands around Davy Creek. Currently, there is one fenced-in building (built in 1996) at the site that houses the former groundwater-extraction treatment plant. Several private residences are located to the west of the OECI Site, each having their own water supply wells.

The original 1990 record of decision (ROD) called for groundwater extraction and treatment ("Pump and Treat" or P/T). The P/T operated from October 1997 to July 2004. It was shut down after the EPA determined that its continued operation was no longer effective. The five extraction wells were abandoned in July 2009.

Between October 2004 and January 2009, fourteen (14) rounds of groundwater samples from a select subset of monitoring wells have taken place for the purpose of evaluating MNA as a remedy for the CVOCs in the groundwater. Evaluation of the data showed that MNA alone (i.e. unenhanced) is not sufficient in reducing the CVOCs that include trichloroethylene (TCE) and vinyl chloride (VC). These compounds continue to be detected at downgradient bedrock monitoring wells and at nearby private water supply wells.

In May 2011, a ROD Amendment was signed to modify the original ROD's P/T (already shutdown since 2004) to MNA after either source area removal or in-situ treatment.

In February 2012, a membrane interface probe (MIP) survey was conducted at the site. The MIP survey identified several areas where TCE remained high. The survey detected TCE impacted soil as high as 36 mg/kg to a depth of 10 feet. It delineated five (5) primary areas as "source zones." The largest of the five areas (Area A) was inadequately sampled during the early RI/FS phase (1980's) of the Superfund project because it was then under the electroplating building (now razed).

In November 2012, another groundwater sampling event (15th since 2004) was performed. Detections of TCE and VC at the private wells have persisted since July 2005–albeit all detections were below NR 140 Enforcement Standards (ESs).

In June 2013, an in-situ soil treatment was performed at the OECI Site to promote the chemical reduction of the CVOCs. The treatment design involved the mixing of contaminated soil within a specified depth range with Daramend, a proprietary product that consists of a soluble substrate and zero valent iron. For Area A, the soil mixing was from 8 to 14 feet below ground surface. After the mixing in Area A, approximately 11,000 gallons of water was removed from the excavation, temporarily stored in a frac tank, and then transported to a U.S. EPA-approved disposal facility operated by Waste Management outside of Milwaukee.

In November 2013, another round (16^{th} since 2004) of groundwater samples was collected. This round included many monitoring wells (TW-202I, MW-2D, -9S, -101S, -102S, -104S and -104D) that had not been sampled since 2003. Out of the nine private wells sampled, five had VC above its NR 140 Preventive Action Limit (PAL) of $0.02 \,\mu\text{g/L}$, but below the ES of $0.2 \,\mu\text{g/L}$.

3.0 FIELD ACTIVITIES

The following field activities were performed by Tetra Tech personnel during the November 2015 and May 2016 monitoring events:

- Measured the depth to groundwater in the 33 existing OECI Site monitoring wells and noted the condition of the monitoring wells.
- Collected semi-annual groundwater samples from 28 of the OECI Site monitoring wells
 for laboratory analyses of volatile organic compounds (VOCs), methane, ethane, ethene,
 acetylene, total iron, dissolved iron, total manganese, dissolved manganese, alkalinity,
 chloride, sulfate and total organic carbon (TOC). Field measurements of sample
 temperature, pH, specific conductance, oxidation-reduction potential (ORP), dissolved
 oxygen (DO) and turbidity were also taken during the semi-annual sampling events.
- Collected annual groundwater samples from seven (7) residential wells during the November 2015 sampling event for laboratory analysis of VOCs. Please note, one residential well that is part of the groundwater monitoring program was not sampled because nobody answered the telephone or returned the voice messages left by Tetra Tech personnel and nobody answered the door the days Tetra Tech personnel were on-site performing the November 2015 monitoring event.
- Notified the property owners (and residents if different than the property owner) within 10 days of the receipt of the analytical reports from the laboratory subcontractor of the VOCs results. The notification included completing WDNR Form 4400-249, Site Investigation Sample Results Notification, and submitting electronic copies of the analytical reports and WDNR Form 4400-249 to the WDNR Project Manager.

The November 2015 monitoring event took place November 2 through November 6, 2015 and the May 2016 sampling event took place May 9 through May 18, 2016. The groundwater samples were collected from the OECI Site monitoring wells using the low-flow sampling method in accordance with the low-flow groundwater sampling procedures included in Appendix A of the November 2014 QA/QC Plan. The groundwater samples were collected from the seven residential wells in accordance with the private residential well groundwater sampling procedures included in Appendix A of the November 2014 QA/QC Plan.

Isoconcentration maps showing the degree and extent of TCE and VC impacts in the shallow-depth, mid-depth and bedrock monitoring wells from the April 2003 and May 2015 groundwater sampling events are included in Appendix A. Copies of the laboratory subcontractor (CT Laboratories LLC, Baraboo, Wisconsin) analytical reports are provided in Appendix B. Field groundwater level measurement and groundwater sampling records are presented in Appendix C. The procedures used during these activities are described in the following sections.

3.1 Depth to Groundwater Measurements and Well Inspections

Depth to groundwater measurements were collected from all 33 of the OECI Site monitoring wells during the November 2015 and May 2016 monitoring events. The depth to groundwater measurements and the groundwater elevations calculated from the measurements are presented on Table 1. Groundwater elevation data from the previous reporting period (November 2014 to June 2015) are also included on Table 1. Vertical gradients calculated for the nested monitoring wells are listed on Table 2.

The condition of the surface seals and monitoring well casings were also noted by the Tetra Tech environmental technician at the time the depth to groundwater measurements were collected. The conditions of the monitoring wells were un-changed from the conditions noted during the December 2014 and May 2015 monitoring events. Photographs documenting the conditions of the monitoring wells were included as Appendix A in the August 26, 2015 annual monitoring report. The monitoring wells were found to be in good condition except for the following two instances:

- 1. The concrete pad around the steel above ground protective casing of monitoring well MW-13S is heaved up several inches causing the protective casing to wobble.
- 2. Monitoring well TW-202I does not have a protective casing around its PVC well casing. A locking plug is on the PVC casing but the lack of a protective casing does not conform to the monitoring well construction requirements of Chapter NR141 of the Wisconsin Administrative Code (WAC).

The groundwater depths were measured using a decontaminated electronic water level meter to record the depth-to-water below a surveyed reference point (top of well casing). The water level meter was slowly lowered into the monitoring well until the meter was activated (as indicated by an audible tone). The depth-to-water reading was then measured to the nearest 0.01 feet and recorded on a field water level data sheet. The water-level meter was decontaminated between locations as described in Section 3.5. Copies of the field water level data sheets are provided in Appendix C.

3.2 Monitoring Well Sampling Procedures

The following 28 OECI Site monitoring wells are on the semi-annual groundwater sampling list: MW-1S, MW-1D, MW-2D, MW-3D, MW-4S, MW-5D, MW-9S, MW-12S, MW-12D, MW-12B, MW-13S, MW-13D, MW-15S, MW-15D, MW-15B, MW-16S, MW-101S, MW-101B, MW-102S, MW-102D, MW-103S, MW-103D, MW-105S, MW-105D, MW-105B, TW-202I, OW-6 and MW-14DR. Dedicated sample tubing was used to collect the groundwater samples from the OECI Site monitoring wells to eliminate the potential for cross-contamination of the samples.

The groundwater samples were collected using the low-flow sampling method as described in "Field Operating Procedure No. 1 – Low-Flow Groundwater Sampling Procedures" included in Appendix A of the November 2014 QA/QC Plan and in accordance with s. NR 140.16 WAC. A peristaltic pump and dedicated Teflon®-lined polyethylene tubing were used by the Tetra Tech environmental technician to purge and sample each monitoring well.

A multi-parameter water quality meter and flow-through cell was used to measure the pH, ORP, DO, turbidity, specific conductance and temperature of the groundwater during the low-flow purging process. The multi-parameter water quality meter was calibrated prior to the start of each sampling event in accordance with the procedures presented in "Field Operating Procedure No. 4 – Equipment Calibration" included in Appendix A of the November 2014 QA/QC Plan and the multi-parameter water quality meter manual. The monitoring wells were purged at low pumping rates to keep the drawdown in the monitoring wells at or below 0.33 feet. The purging process was stopped after three successive pH, ORP, DO, turbidity, specific conductance and temperature readings taken during the low-flow purging process were within the stabilization criteria ranges listed below:

- pH: Plus or minus 0.1.
- ORP: Plus or minus 10 millivolts
- DO: Plus or minus 0.3 milligrams per liter (mg/L)
- Turbidity: plus or minus 10% (when turbidity is greater than 10 nephelometric units).
- Specific Conductance: Plus or minus 3%.
- Temperature: Plus or minus 1 Degree Celsius.

The three final stabilized pH, ORP, DO, turbidity, specific conductance and temperature readings taken during the low-flow purging process were entered on Tetra Tech low-flow sampling method field water quality sampling and analysis forms. Copies of the low-flow sampling method forms containing the three final stabilized pH, ORP, DO, turbidity, specific conductance and temperature readings are provided in Appendix C. The final stabilized field parameters readings are also included on Table 3. The groundwater samples submitted for laboratory analyses were collected directly from the dedicated tubing of the monitoring wells at the discharge end of the peristaltic pump in sample containers provided by the laboratory subcontractor. The samples submitted for dissolved iron and manganese analyses were filtered in the field using disposable 0.45 micron filters in accordance with procedures described in "Field Operating Procedure No. 5 – Field Filtering Samples" included in Appendix A of the November 2014 QA/QC Plan. The disposable filters were connected directly to the dedicated tubing of the monitoring wells at the discharge end of the peristaltic pump and the sample containers provided by the laboratory subcontractor were filled directly from the outlet of the disposable filters.

3.3 Residential Well Sampling Procedures

Annual groundwater samples were supposed to be collected from eight residential wells located west of the OECI Site during the November 2015 sampling event. The well identifications and property addresses of the eight residential wells are listed below:

- 1. PW-03: 2601 Oak Street
- 2. PW-04: 2605 Oak Street
- 3. PW-05: 2611 Oak Street
- 4. PW-07: 2602 Elm Street
- 5. PW-08: 2603 Elm Street
- 6. PW-09: 2606 Elm Street
- 7. PW-10: 2607 Elm Street
- 8. PW-11: 2612 Elm Street

A groundwater sample was not able to be collected from the residential well located on the 2611 Oak Street (PW-05) property. The occupant of the 2611 Oak Street property did not answer or return repeated telephone calls made by the Tetra Tech environmental technician to schedule the sampling of the well and nobody answered the door on the days the Tetra Tech environmental technician was on site performing the November 2015 monitoring event.

Tetra Tech personnel collected the groundwater samples from the residential wells on the 2605 Oak Street (PW-04), 2602 Elm Street (PW-07), 2603 Elm Street (PW-08) and 2607 Elm Street (PW-10) properties from an outside tap (before any household treatment system) after purging for a minimum of 10 minutes in accordance with the procedures described in "Field Operating Procedure No. 9 - Private Residential Well Groundwater Sampling Procedures" included in Appendix A of the November 2014 QA/QC Plan. A garden hose attached to the outside tap was used to discharge the purge water away from the foundation of the house. The garden hose was removed from the outside tap after the purging is completed. The residential wells on the 2601 Oak Street (PW-03), 2606 Elm Street (P-09) and 2612 Elm Street (PW-11) properties were sampled from a faucet inside the houses at the request of the property owners. Water was purged for a minimum of 10 minutes from the inside faucet prior to collecting the groundwater samples. After the 10 minute purging period was complete, a groundwater sample was collected in a clean container from the tap and field measurements of pH, specific conductance and temperature were taken using a multi-parameter water quality meter. The field measurements were recorded on Tetra Tech private well field water quality sampling and analysis forms. Copies of the completed field forms are included in Appendix C. The groundwater samples submitted for laboratory analysis were collected in sample vials provided by the laboratory subcontractor.

3.4 Sample Analysis and Quality Assurance/Quality Control

The groundwater samples collected from the OECI Site monitoring wells and residential wells were submitted for laboratory analysis of VOCs by EPA Method 8260C. The monitoring wells groundwater samples were also submitted for laboratory analysis of the following MNA parameters:

- Dissolved Gases (Methane, Ethane, Ethene, Acetylene): Method RSK 175
- Total Iron & Manganese: EPA Method 6010C
- Dissolved Iron & Manganese: EPA Method 6010C
- Alkalinity: EPA Method 310.2
- Chloride: EPA Method 9056
- Sulfate: EPA Method 9056
- Total Organic Carbon (TOC): EPA Method 9060A

Copies of the laboratory subcontractor analytical reports from each monitoring event are included in Appendix B. The monitoring wells samples analytical results and field parameters data are summarized on Table 3. The residential wells samples analytical results are presented on Table 4. Both tables include the data obtained from the two previous semi-annual monitoring events, which were performed in December 2014 and May 2015.

The groundwater samples collected from the residential wells were collected directly from a spigot. The groundwater samples collected from the monitoring wells were collected directly from

the dedicated Teflon®-lined polyethylene tubing. The water level meter used to collect the depth-to-water measurements during the low-flow purging process was decontaminated before and between each use with an Alconox® wash and distilled water rinse. The container used to measure the field parameters for the residential wells samples and the flow-through cell used to measure the field parameters during the low-flow purging and sampling of the monitoring wells were cleaned between samples with an Alconox® wash and distilled water rinse.

The following quality assurance/quality control samples were collected in accordance with the November 2014 QA/QC Plan during the November 2015 and May 2016 monitoring events:

- Trip blanks provided by the laboratory subcontractor were included with each sample shipment to the laboratory subcontractor. The trip blank samples were analyzed for VOCs.
- Duplicate groundwater samples were collected from monitoring wells MW-103D and MW-105S during each sampling round and submitted for laboratory analyses of the same parameters as the original groundwater samples collected from the monitoring wells. Matrix Spike and Matrix Spike Duplicate (MS/MSD) samples were also analyzed by the laboratory subcontractor during each sampling round.
- No equipment blank samples were collected because the laboratory-provided sample containers were filled directly from the dedicated sample tubing for the monitoring wells samples and directly from the well spigots for the residential wells samples.

The laboratory QA/QC samples produced several qualified results as follows:

- 1. The chloromethane detection in the groundwater sample collected from monitoring well MW-3D during the November 2015 sampling event was qualified because chloromethane was detected in an associated method blank.
- 2. The reported total manganese concentration for the groundwater sample collected from monitoring well MW-1S during the November 2015 sampling event was qualified because the associated MS and/or MSD recovery and the Duplicate sample precision was outside acceptance limits.
- 3. The reported total chloride concentration for the November 2015 sample collected from MW-15B, the dissolved iron concentration for the November 2015 sample collected from MW-105B and the dissolved iron concentration for the May 2016 sample collected from MW-105S were qualified because the associated MS and/or MSD recovery was outside acceptance limits.
- 4. The acetone detections in the groundwater samples collected from monitoring wells MW-5D, MW-12S, MW-16S, MW-102D, MW-103S, MW-103D, MW-105S and MW-105D during the May 2016 sampling event were qualified because acetone was detected in an associated method blank.

- 5. The tetrahydrofuran detection in the groundwater sample collected from monitoring well MW-2D during the May 2016 sampling event was qualified because tetrahydrofuran was detected in an associated method blank.
- 6. The reported tetrahydrofuran concentrations in the groundwater samples collected from monitoring wells MW-1S, MW-4S, MW-12D, MW-105D and MW-105B during the May 2016 sampling event were qualified because tetrahydrofuran was detected in an associated method blank and the specified calibration criteria was not met. Tetrahydrofuran was also detected in the trip blank samples (sample IDs: TB-1 and TB-2) that accompanied the sample shipments containing the listed samples at a concentration of 1.1 μg/L.
- 7. The reported tetrahydrofuran concentration in the groundwater sample collected from monitoring well MW-16S during the May 2016 sampling event was qualified because the specified calibration criteria was not met.
- 8. The reported total organic carbon concentrations for the May 2016 samples collected from monitoring wells MW-2D and MW-101S were qualified because the Replicate/Duplicate precision was outside acceptance limits.

The duplicate groundwater samples generally produced results that were similar to the original samples with relative percent difference values ranging from 0.0% to 25.9% for the duplicate samples collected during the November 2015 sampling event and from 0.0% to 26.3 % for the duplicate samples collected during the May 2016 sampling event except for the following instances:

- 1. The reported VC concentrations for the original and duplicate samples collected from MW-103D during the November 2015 sampling event were 0.50 μ g/L and 0.74 μ g/L respectively for a relative percent difference of 38.7 %.
- 2. The reported acetone concentrations for the original and duplicate samples collected from MW-103D during the May 2016 sampling event were 660 μg/L and 330 μg/L respectively for a relative percent difference of 96.2 %. As noted above, the acetone detections in the MW-103D samples were qualified because acetone was detected in an associated method blank.
- 3. The reported total iron concentrations for the original and duplicate samples collected from MW-103D during the May 2016 sampling event were 0.0599 mg/L and 0.228 mg/L respectively for a relative percent difference of 116.8 %.
- 4. The reported VC concentrations for the original and duplicate samples collected from MW-105S during the May 2016 sampling event were 6.4 μ g/L and 3.0 μ g/L respectively for a relative percent difference of 72.3 %.

3.5 Investigative Derived Waste Management

The groundwater purged from the OECI Site monitoring wells during the low-flow sampling method purging process was contained in 5-gallon containers at the well locations and then poured

into a 55-gallon drum stored on the OECI Site. After the groundwater sampling activities were completed, the contained groundwater was passed through two granular activated carbon filters and discharged to a grass-covered portion of the OECI Site property. A portable electric utility pump and garden hose was used to pump the groundwater from the 55-gallon drum through the carbon filters. A water sample from the discharge end of the carbon filters was collected in sample vials provided by the laboratory subcontractor and submitted for laboratory analysis of VOCs (EPA Method 8260C) to document the VOC concentrations that remained in the groundwater discharged to the grass-covered area. The sample name for the November 2015 sampling event post carbon filter sample is FILTER BLANK and the VOCs results are included in Analytical Report 115269 (Appendix B). The sample name for the May 2016 sampling event post carbon filter sample is FILTER BLANK and the VOCs results are included in Analytical Report 119012 (Appendix B).

The groundwater purged from the sample taps of the residential wells prior to the collection of the groundwater samples was discharged to the ground surface for the wells that were sampled using an outside spigot and to the sink drain for the wells that were sampled from an inside tap.

All used personal protective equipment and disposable sampling equipment was collected in trash bags and disposed of as general refuse.

4.0 MONITORING RESULTS

4.1 Groundwater Flow and Gradients

The depth to groundwater measurements collected from the OECI Site monitoring wells during this reporting period and the groundwater elevations calculated from the depth to groundwater measurements are presented on Table 1. Water table contours were produced from the depth to groundwater measurements collected from monitoring wells MW-1S, MW-4S, MW-9S, MW-12S, MW-13S, MW-15S, MW-16S, MW-101S, MW-102S, MW-103S, MW-104S, MW-105S and MW-106S during the November 2015 and May 2016 monitoring events. The water table contours are shown on Figure 2 and indicate the general direction of groundwater flow at the water table across the OECI Site is to the southwest, towards Davy Creek. The average horizontal gradient calculated from the water table contours ranged from 0.0037 for the November 2015 monitoring event to 0.0066 for the May 2016 monitoring event. The average horizontal gradients from the previous reporting period were very similar with a gradient of 0.0031 for the December 2014 water table contours and 0.0053 for the May 2015 water table contours. Table 1 includes the height of the water column in the monitoring wells calculated from the depth to groundwater measurements and listed well depths. All of the shallow-depth (water table) monitoring wells have 10-foot screen lengths so a water column height greater than 10 feet indicates the top of the well screens were submerged during the monitoring event in which the water level measurements were collected. Review of the water column height data for the water table monitoring wells indicates the top of the well screens in monitoring wells MW-1S, MW-9S, MW-12S, MW-16S, MW-105S and MW-106S were submerged for the four monitoring events performed in December 2014, May 2015, November 2015 and May 2016. The well screen was entirely submerged in monitoring well MW-103S during the December 2014, May 2015 and May 2016 monitoring events and the well screens in monitoring wells MW-4S, MW-13S and MW-104S were entirely submerged during the May 2015 and May 2016 sampling events. The depth that the top of the well screens were submerged ranged from 0.15 feet in MW-13S during the May 2016 monitoring event to 7.83 feet in MW-9S during the May 2015 monitoring event. The top of the well screens were not submerged (water column height less than 10 feet) during all four of the monitoring events in monitoring wells MW-15S, MW-101S and MW-102S.

Potentiometric surface contours were produced from the depth to groundwater measurements collected from the following mid-depth unconsolidated deposits monitoring wells: MW-5D, MW-12D, MW-13D, MW-14DR, MW-15D, MW-102D, MW-103D, MW-104D, MW-105D, MW-106D and TW-202I. The mid-depth potentiometric surface contours are shown on Figures 3 and indicate the general direction of groundwater flow in the mid-depth monitoring wells is also to the southwest towards Davy Creek. The average horizontal gradient calculated from the mid-depth unconsolidated deposits monitoring wells potentiometric surface contours were 0.0057 for the November 2015 monitoring event and 0.0024 for the May 2016 monitoring event. The average horizontal gradient calculated from the December 2014 mid-depth monitoring wells water level data was 0.0012 and the gradient calculated from the May 2015 water level data was 0.0021.

Potentiometric surface contours were produced from the depth to groundwater measurements collected from the nine OECI Site bedrock monitoring wells, which are as follows: MW-1D, MW-2D, MW-3D, MW-4D, MW-12B, MW-15B, MW-101B, MW-105B and OW-6. The bedrock

potentiometric surface contours are shown Figure 4 and indicate the general direction of groundwater flow in the bedrock is from east to west across the OECI Site. The average horizontal gradients calculated from the bedrock monitoring wells potentiometric surface contours were 0.024 for the November 2015 monitoring event and 0.011 for the May 2016 monitoring event. The average gradients calculated from water level data collected during the previous reporting period were 0.011 for the December 2014 monitoring event and 0.038 for the May 2015 monitoring event.

Vertical gradients were calculated for the nested OECI Site monitoring wells from the depth to groundwater measurements. The vertical gradient calculations are presented on Table 2. The positive vertical gradient values on Table 2 represent downward flow directions while the negative vertical gradient values represent upward flow directions. As shown on Table 2, downward vertical gradient values ranged from 0.2782 to 0.0049 while upward vertical gradient values ranged from 0.0594 to 0.0007 during this reporting period. The vertical gradients calculated for the OECI Site monitoring well nests indicate vertical gradients are predominantly downward at the monitoring well nests located within (MW-102S/D nest) and north (MW-1S/D, MW-4S/D, MW-15S/D/B, MW-101S/B, MW-103S/D, MW-104S/D nests) of Elm Street except at the MW-103S/D well nest where upward gradients were measured during both monitoring events that were completed this reporting period. The only other exceptions during this reporting period were slight upward vertical gradients of 0.0051 between monitoring wells MW-1S and MW-1D calculated from the May 2016 monitoring event data and slight upward gradients of 0.0007 at the MW-15S/D well nest and 0.0091 at the MW-102S/D well nest calculated from the November 2015 monitoring event data. Vertical gradients are predominantly upward at the monitoring well nests located south of Elm Street in the wetland near Davy Creek (MW-12S/D/B, MW-13S/D, MW-105S/D/B and MW-106S/D). The only exceptions during this reporting period were a downward gradient of 0.0308 between water table monitoring well MW-12S and mid-depth unconsolidated deposits monitoring well MW-12D and a downward gradient of 0.0140 between mid-depth monitoring well MW-105D and bedrock monitoring well MW-105B calculated from the November 2015 monitoring event depth to groundwater data. The monitoring wells south of Elm Street are located in or near the wetland that borders Davy Creek. The vertical gradient data from the monitoring well nests south of Elm Street suggest groundwater discharges to the wetland and Davy Creek.

4.2 Monitoring Wells Sample Results

The final stabilized field parameters readings taken during the low-flow purging of the monitoring wells and the laboratory results for the groundwater samples collected from the monitoring wells are summarized on Table 3. Review of the VOCs data presented on Table 3 shows several CVOCs are present at concentrations exceeding their respective NR140 ESs and/or PALs in one or more of the groundwater samples collected from the OECI Site monitoring wells during the November 2015 and May 2016 sampling events. The CVOCs are listed below:

Compound	NR140 Enforce- ment Standard (ES) (µg/L)	NR140 Preventive Action Limit (PAL) (µg/L)	RL (µg/L)	LOQ (µg/L)	Number of Wells: ES or Greater	Number of Wells: PAL or Greater, but Less Than ES	Number of Wells with a J-flagged Result	Number of Wells with a Detection
1,1,1-Trichloroethane	200	40	0.060	0.21	0	1	1	6
1,1-Dichloroethane	850	85	0.060	0.19	0	1	5	12
1,1-Dichloroethene	7.0	0.7	0.070	0.23	1	6	7	9
1,2-Dichloroethane	5.0	0.5	0.040	0.14	0	4	6	6
cis-1,2-Dichloroethene (cis-DCE)	70	7.0	0.060	0.21	4	5	4	19
Methylene Chloride	5.0	0.5	0.060	0.21	2	2	0	4
Tetrachloroethene	5.0	0.5	0.060	0.20	1	0	2	3
trans-1,2-Dichloroethene (trans-DCE)	100	20	0.060	0.20	1	2	4	11
Trichloroethene (TCE)	5.0	0.5	0.030	0.10	7	1	6	18
Vinyl chloride (VC)	0.2	0.02	0.016	0.052	9	7	7	16

Notes:

RL = Undiluted Reporting Limit LOQ = Undiluted Limit of Quantitation

J flag = Reported concentration was between the RL and LOQ.

The methylene chloride detections may be a laboratory or sample container contaminant as it is a common laboratory solvent and it was only detected in the May 2016 sampling event samples.

Dedicated sample tubing was used to collect the groundwater samples from the OECI Site monitoring wells so no cross-contamination is expected.

Time series charts showing the trends in TCE concentrations and the concentrations of cis-DCE and VC, which are the primary biodegradation breakdown products of TCE, in the 28 monitoring wells that are part of the OECI site groundwater sampling program are included as Charts 1 through 28. The trend lines are displayed as dashed lines on the charts. The 2009 through 2013 data presented on the charts was downloaded from the WDNR GEMS on the Web (GOTW) Public Access website. Review of the charts reveals the following:

• TCE, cis-DCE and VC have not been detected in the following monitoring wells from 2009 to 2016:

	TCE		cis-DCE		VC	Notes
				1.	MW-1S	Monitoring wells with an "S"
1.	MW-1D (BR)	1.	MW-1D (BR)			designation are shallow-depth
2.	MW-3D (BR)					water table monitoring wells.
3.	MW-4S	2.	MW-4S	2.	MW-4S	_
		3.	MW-9S	3.	MW-9S	Pz: Mid-depth unconsolidated
		4.	MW-12B (BR)	4.	MW-12B (BR)	deposits monitoring well.
				5.	MW-15S	
						BR: Bedrock monitoring well.
4.	MW-15B (BR)	5.	MW-15B (BR)	6.	MW-15B (BR)	
5.	MW-101S	6.	MW-101S	7.	MW-101S	
				8.	MW-101B (BR)	
6.	MW-102S	7.	MW-102S	9.	MW-102S	
				10.	. OW-6 (BR)	
				11.	. MW-14DR (Pz)	

• TCE, cis-DCE and VC concentrations are exhibiting an overall decreasing trend from 2009 to 2016 in the monitoring wells listed below:

TCE cis-DCE		VC	Notes
		1. MW-1D (BR)	Monitoring wells with an "S"
			designation are shallow-depth
1. MW-5D (Pz)	1. MW-5D (Pz)		water table monitoring wells.
2. MW-12S	2. MW-12S		
3. MW-12D (Pz)	3. MW-12D (Pz)		Pz: Mid-depth unconsolidated
4. MW-12B (Br)			deposits monitoring well.
5. MW-13S	4. MW-13S		
6. MW-15D (Pz)	5. MW-15D (Pz)		BR: Bedrock monitoring well.
	6. MW-16S	2. MW-16S	
7. MW-101B (BR)	7. MW-101B (BR)		
8. MW-102D (Pz)			
9. MW-103S			
10. MW-103D (Pz)	8. MW-103D (Pz)		
11. MW-105S			
12. MW-105D (Pz)			
	9. MW-105B (BR)		
13. TW-202I (Pz)			
14. OW-6 (BR)	10. OW-6 (BR)		
15. MW-14DR (Pz)	11. MW-14DR (Pz)		

• TCE, cis-DCE and VC concentrations appear to be stable in the following monitoring wells from 2009 to 2016:

TCE	cis-DCE	VC	Notes
		1. MW-12S	Monitoring wells with an "S"
		2. MW-13S	designation are shallow-depth
1. MW-13D (Pz)			water table monitoring wells.
	1. MW-15S		
		3. MW-15D (Pz)	Pz: Mid-depth unconsolidated
2. MW-16S			deposits monitoring well.
		4. MW-105B (BR)	
		5. TW-202I (Pz)	BR: Bedrock monitoring well.

• TCE, cis-DCE and VC concentrations are exhibiting an increasing trend from 2009 to 2016 in the monitoring wells listed below:

TCE			cis-DCE		VC	Notes		
1.	MW-1S	1.	MW-1S			Monitoring wells with an "S"		
2.	MW-2D (BR)	2.	MW-2D (BR)	1.	MW-2D (BR)	designation are shallow-depth		
		3.	MW-3D (BR)	2.	MW-3D (BR)	water table monitoring wells.		
3.	MW-9S			3.	MW-5D (Pz)	-		
				4.	MW-12D (Pz)	Pz: Mid-depth unconsolidated		
		4.	MW-13D (Pz)	5.	MW-13D (Pz)	deposits monitoring well.		
4.	MW-15S							
		5.	MW-102D (Pz)	6.	MW-102D (Pz)	BR: Bedrock monitoring well.		
		6.	MW-103S	7.	MW-103S			

TCE	cis-DCE	VC	Notes
		8. MW-103D (Pz)	
	7. MW-105S	9. MW-105S	
	8. MW-105D (Pz)	10. MW-105D (Pz)	
5. MW-105B (BR)	, ,	, ,	
	9. TW-202I (Pz)		

- The data presented above shows TCE concentrations are non-detect, stable or decreasing in 23 of the monitoring wells, cis-DCE concentrations are non-detect, stable or decreasing in 19 of the monitoring wells and VC concentrations are non-detect, stable or decreasing in 18 of the monitoring wells.
- As noted above, TCE concentrations in five of the OECI Site monitoring wells exhibited an increasing trend from 2009 to 2016. However, TCE concentrations in three of these monitoring wells (MW-2D, MW-15S and MW-105B) are either stable or decreasing since Daramend was applied to Area A in June 2013 (see November 2013 through May 2016 sampling events portions of Charts 3, 13 and 25). The increases in TCE impacts since the Daremend application in June 2013 in monitoring wells MW-1S, which is located northeast and upgradient of the OECI property, and MW-9S, which is located north of Elm Street on the east side of the former OECI electroplating facility, is very small and the concentrations are below the NR140 PAL of 0.50 μg/L. The reported TCE concentration in MW-1S increased from less than the detection limit of 0.020 μg/L in November 2013 to 0.061 μg/L in May 2016. The TCE concentration in monitoring well MW-9S increased from 0.19 μg/L in November 2013 to 0.24 μg/L in November 2015, but then declined to 0.18 μg/L in May 2016.
- The greatest decrease in TCE impacts from the January 2009 to May 2016 sampling events occurred at water table monitoring well MW-105S with TCE concentrations declining from 2,400 μ g/L in January 2009 to 1,200 μ g/L (1,100 μ g/L in duplicate sample) in May 2016. The MW-105S/D/B monitoring well nest is located south of Elm Street in the wetland area on the OECI Site.
 - Review of the time series chart for mid-depth unconsolidated deposits monitoring well MW-105D (Chart 24) shows TCE, cis-DCE and VC concentrations increased from January 2009 to November 2012, but have been on a decreasing trend since Daramend was applied to Area A of the OECI Site in June 2013. The low-level (less than 0.12 µg/L) TCE, cis-DCE and VC impacts in bedrock monitoring well MW-105B have also declined since the June 2013 application of Daramend in Area A to the point that all three compounds were not detected in the May 2016 sample (see Chart 25).
- TCE impacts also decreased significantly in mid-depth monitoring well MW-103D, which is located north of Elm Street on the south side of the former OECI electroplating facility. Reported TCE concentrations were 740 μg/L and 780 μg/L (duplicate sample) in the samples collected from MW-103D in January 2009 and were 390 μg/L and 340 μg/L (duplicate sample) in the samples collected during the May 2016 sampling event. Review of the MW-103S time series chart (Chart 21) shows TCE impacts increased from 110 μg/L

in January 2009 to 150 μ g/L in November 2012, but TCE impacts in MW-103S are exhibiting a declining trend since Daramend was applied to Area in June 2013.

- The greatest decrease in VC impacts occurred at water table monitoring well MW-16S with VC concentrations declining from 97 μ g/L in November 2012 to 23 μ g/L in May 2016. MW-16S is located south of Elm Street in the wetland area on the OECI site. Review of the MW-16S time series chart (Chart 16) also shows that cis-DCE concentrations increased from 770 μ g/L in November 2012 to 1,400 μ g/L in November 2013 (about five months after Daramend was applied to Area A) but have since been on a declining trend with the cis-DCE concentration in the May 2016 sample down to 630 μ g/L. TCE was not detected in the last two groundwater samples collected from MW-16S in November 2015 and May 2016.
- Review of the chart for mid-depth unconsolidated deposits monitoring well MW-5D (Chart 6), which is located north of Elm Street near the southeast corner of the former OECI electroplating facility, shows that while TCE and cis-DCE impacts are on a declining trend from 2009 to 2016, vinyl chloride concentrations have increased from not detected (detection limit = 0.65 μg/L) in January 2009 to 4.7 μg/L in May 2016. The data from MW-5D suggest biological reductive dechlorination processes are reducing TCE concentrations in the OECI Site plume and producing VC.
- Review of the time series chart for mid-depth unconsolidated deposits monitoring well MW-15D (Chart 14), which is located on the north side of the Elm Street right-of-way west of the OECI Site, shows a declining trend in TCE and cis-DCE impacts from 2009 to 2016. VC concentrations in MW-15D were below the detection limit of 0.019 µg/L for the samples collected during the January 2009, November 2013 and May 2015 events and below the detection limit of 0.016 µg/L for the sample collected during the May 2016 sampling event. However, VC was detected at J-flagged concentrations of 0.02 µg/L in the sample collected during the December 2014 sampling event and 0.03 µg/L in the sample collected during the November 2015 sampling event, which are at to slightly above the NR140 PAL of 0.020 µg/L. The J-flag qualifier indicates the VC concentrations in the samples were lower than the LOQ for the samples and therefore the listed concentrations are estimate values. VC concentrations in mid-depth monitoring well MW-102D, which is located on the south side of the Elm Street right-of-way approximately 180 feet west of the MW-15S/D/B well nest, have increased from 0.067 µg/L in January 2009 to 0.32 µg/L in May 2016. The December 2014 and November 2015 sampling events data from MW-15D and the data from MW-102D suggest VC impacts may be increasing near the western edge of the OECI Site plume.

TCE and VC isoconcentration maps for the shallow-depth unconsolidated deposits monitoring wells, mid-depth unconsolidated deposits monitoring wells and bedrock monitoring wells were produced from the May 2016 sampling event analytical data. The isoconcentration maps are included as Figures 5 through 10 and are discussed below. The discussion also includes a comparison of the shallow-depth (water table), mid-depth and bedrock monitoring wells isoconcentration maps produced from the May 2016 sampling event to the isoconcentration maps produced from the May 2015 sampling event for the August 25, 2015 annual monitoring report.

Copies of the May 2015 sampling event isoconcentration maps are provided in Appendix B. Shallow-depth and mid-depth isoconcentration maps produced from a groundwater sampling event conducted in April 2003 are also included in Appendix B. The May 2015 sampling event shallow-depth and mid-depth monitoring wells isoconcentration maps were compared to the April 2003 sampling event isoconcentration maps for the August 26, 2015 annual monitoring report.

4.2.1 Shallow-Depth and Mid-Depth Monitoring Wells Isoconcentration Maps Discussion

As shown on Figure 5, monitoring well MW-105S, which is located south of Elm Street in the wetland area near Davy Creek, has the highest TCE impacts in the shallow groundwater with a reported TCE concentration of 1,200 µg/L. The occurrence of the highest shallow-depth TCE impacts in the wetland area instead of in or near the source areas on the former OECI electroplating facility can be attributed to the remedial actions performed in the source areas including the application of Daramend in Area A in June 2013. The presence of predominantly downward vertical gradients north of Elm Street and upward vertical gradients in the wetland area also contribute to the highest TCE impacts near the water table occurring in the wetland. Monitoring wells MW-12S, which is also located south of Elm Street in the wetland, and MW-103S, which is located north of Elm Street on the south side of the former electroplating facility of the OECI Site, are the other two shallow-depth monitoring wells with TCE impacts above the NR140 ES of 5.0 μg/L with reported TCE concentrations of 48 μg/L and 57 μg/L respectively. Low-level (less than 0.5 µg/L) TCE impacts are found at monitoring wells MW-13S (0.051 µg/L), which is located south of Elm Street in the wetland, MW-9S (0.18 µg/L), located north of Elm Street on the former OECI electroplating facility, MW-15S (0.098 µg/L), located north of Elm Street west of the former OECI electroplating facility, and MW-1S (0.061 µg/L), located near the northeast corner of the former OECI electroplating facility on the Town of Ashippun Highway Department property. TCE was not detected in the other shallow-depth monitoring wells on the OECI Site monitoring plan (MW-4S, MW-16S, MW-101S and MW-102S).

Comparison of the shallow-depth (water table) monitoring wells May 2015 sampling event TCE isoconcentration map to the May 2016 sampling event TCE isoconcentration map indicates TCE impacts north of Elm Street on the former OECI electroplating facility declined from 2015 to 2016. Specifically, the reported TCE concentration in monitoring well MW-103S declined from 73 $\mu g/L$ in May 2015 to 57 $\mu g/L$ in May 2016. The reported TCE concentrations in the two other shallow-depth monitoring wells located north of Elm Street on the former OECI electroplating facility that were sampled during both sampling events (MW-4S and MW-9S) were the same for both sampling events. TCE was not detected in both samples collected from monitoring well MW-4S and TCE was detected at a concentration of 0.18 $\mu g/L$ in both of the groundwater samples collected from monitoring well MW-9S. TCE impacts also exhibited a decrease between the May 2015 and May 2016 sampling events at monitoring well MW-12S (72 $\mu g/L$ to 48 $\mu g/L$) and MW-105S (2,100 $\mu g/L$ to 1,200 $\mu g/L$), which are located in the wetland area near Davy Creek (south of Elm Street). TCE was either not detected or detected at concentrations well below its NR140 PAL of 0.50 $\mu g/L$ in the other shallow-depth monitoring wells that are part of the OECI Site monitoring program.

Figure 6 shows the mid-depth TCE plume is larger than the water table TCE plume (Figure 5) and the bedrock TCE plume (Figure 6). The greater TCE plume extent in the mid-depth zone can be attributed to the migration of impacts away from the source areas on the former OECI

electroplating facility due to advection, dispersion and groundwater flow. As discussed in Section 4.1, horizontal groundwater flow in the unconsolidated deposits is generally to the southwest and to the west in the bedrock. Vertical gradients are predominantly downward north of Elm Street so the TCE impacts originating on the former OECI electroplating facility would move downward as groundwater flows to the southwest and west. As shown on Figure 6, the highest TCE impacts in the mid-depth monitoring wells occurs at monitoring well MW-103D, which is located north of Elm Street on the south side of the former OECI electroplating facility, with a reported TCE concentration of 390 µg/L. TCE impacts above the NR140 ES of 5.0 µg/L are also present at monitoring wells MW-5D (54 µg/L), which is located near the southeast corner of the former OECI electroplating facility, TW-202I (12 µg/L), which is located about 18 feet south of Elm Street near the intersection of Eva Street and Elm Street, and MW-15D (12 µg/L), which is located on the north side of the Elm Street right-of-way west of the OECI Site. The reported TCE concentration in mid-depth monitoring well MW-105D (0.56 µg/L), which is located in the wetland south of Elm Street, exceeds the NR140 PAL of 0.50 µg/L. TCE was not detected in the groundwater sample collected from monitoring well MW-13D and low-level (less than 0.40 µg/L) TCE impacts occur in the three other mid-depth monitoring wells that are on the OECI Site sampling list (MW-12D, MW-14DR and MW-102D).

Comparison of the mid-depth monitoring wells May 2015 sampling event TCE isoconcentration map to the May 2016 sampling event TCE isoconcentration map shows TCE impacts in the mid-depth monitoring wells declined slightly or were stable. The only exception was a slight increase in TCE impacts at on-site monitoring well MW-5D from $50 \,\mu\text{g/L}$ in May 2015 to $54 \,\mu\text{g/L}$ in May 2016. The highest TCE impacts in the mid-depth monitoring wells for both sampling events occurs at monitoring well MW-103D, which is located north of Elm Street on the south side of the former OECI electroplating facility. TCE concentrations were the same for both sampling events (12 $\,\mu\text{g/L}$) at monitoring wells TW-202I and MW-15D. TCE concentrations decreased slightly in the five other mid-depth monitoring wells that are on the OECI Site sampling list (MW-12D, MW-13D, MW-14DR, MW-102D and MW-105D).

As shown on Figure 8, the highest VC impacts in the shallow groundwater occur at monitoring well MW-16S, which is located in the wetland south of Elm Street, with a reported VC concentration of 23 μ g/L. VC concentrations also exceed the NR140 ES of 0.20 μ g/L at monitoring wells MW-12S (0.79 μ g/L) and MW-105S (6.4 μ g/L), which are also located in the wetland south of Elm Street, and at monitoring well MW-103S (1.5 μ g/L), which is located north of Elm Street on the south side of the former OECI electroplating facility. VC was not detected in the seven other water table monitoring wells that are on the OECI Site sampling list (MW-1S, MW-4S, MW-9S, MW-13S, MW-15S, MS-101S and MW-102S).

The shallow-depth monitoring wells VC plume produced from the May 2015 sampling event data is very similar to the shallow-depth VC plume produced from the May 2016 sampling event. Monitoring well MW-16S had the highest VC impacts in both sampling rounds. The VC concentrations at monitoring wells MW-12S, MW-103S and MW-105S exceeded the NR140 ES for VC and no VOCs were detected in the seven other shallow-depth (water table) monitoring wells in both sampling rounds. Review of the analytical data shows VC concentrations decreased slightly from $28 \mu g/L$ to $23 \mu g/L$ in MW-16S and from $9.8 \mu g/L$ $\mu g/L$ to $6.4 \mu g/L$ in MW-105S

while VC impacts increased slightly from 0.39 μ g/L to 0.79 μ g/L in MW-12S and from 0.64 μ g/L to 1.5 μ g/L in MW-103S.

Comparison of Figure 8 and Figure 9 shows the mid-depth VC plume extends further west than the shallow-depth VC plume. The NR140 ES of 0.20 μ g/L for VC was exceeded in the May 2016 groundwater samples collected from five of the mid-depth monitoring wells (MW-5D, MW-12D, MW-102D, MW-103D and MW-105D). The groundwater sample collected from monitoring well MW-5D, which is located north of Elm Street near the southeast corner of the former OECI electroplating facility, had the highest VC concentration of the mid-depth monitoring wells at 4.7 μ g/L. The reported VC concentration for the sample collected from monitoring well MW-13D (0.046 μ g/L) exceeded the NR140 PAL of 0.02 μ g/L. VC was not detected in the groundwater samples collected from monitoring wells MW-14DR, MW-15D and TW-202I.

Comparison of the May 2015 and May 2016 sampling events mid-depth monitoring wells VC isoconcentration maps shows the degree and extent of the mid-depth VC plumes produced from the May 2015 and May 2016 data are very similar. VC was not detected in the samples collected from monitoring wells MW-14DR, MW-15D and MW-102D during both sampling events. Review of the analytical results also shows VC impacts increased slightly at monitoring wells MW-5D (4.3 $\mu g/L$ to 4.7 $\mu g/L$), MW-12D (0.55 $\mu g/L$ to 0.80 $\mu g/L$), MW-13D (0.044 $\mu g/L$ to 0.046 $\mu g/L$) and MW-102D (0.23 $\mu g/L$ to 0.32 $\mu g/L$) while VC concentrations decreases slightly at monitoring wells MW-202I (0.023 $\mu g/L$ to no detection (less than 0.016 $\mu g/L$)) and MW-103D (1.4 $\mu g/L$ to 0.50 $\mu g/L$).

4.2.2 Bedrock Monitoring Wells Isoconcentration Maps Discussion

Eight bedrock monitoring wells are sampled as part of the OECI Site monitoring program. As shown on Figure 7, TCE was only detected in the groundwater sample collected from monitoring well MW-101B at a concentration of 0.045 μ g/L, which is well below its NR140 PAL of 0.50 μ g/L. MW-101B is located west of the OECI Site on the west side of the Eva Street right-of-way. The bedrock TCE plume isoconcentration map produced from the May 2015 sampling event was a little larger in extent than the bedrock TCE plume produced from the May 2016 data due to the lower TCE detection limit for the May 2015 samples (0.020 μ g/L vs. 0.030 μ g/L). The TCE concentration reported for the May 2015 sample collected from monitoring well MW-101B was 0.047 μ g/L, which was slightly higher than the reported TCE concentration for the May 2016 sample.

As shown on Figure 10, VC was only detected in one bedrock monitoring well during the May 2016 sampling event, namely MW-3D. The reported VC concentration in the MW-3D sample was 0.024 μ g/L, which is below the NR140 ES of 0.20 μ g/L but above the PAL of 0.02 μ g/L. VC was only detected in bedrock monitoring well MW-1D during the May 2015 sampling event at a concentration of 0.076 μ g/L. The bedrock VC plume isoconcentration maps produced from the May 2015 and May 2016 sampling events suggest the low-level (below the NR140 VC ES) VC bedrock plume moved to the southwest from May 2015 to May 2016.

4.2.3 MNA Parameters Results

The MNA parameters results from the May 2016 sampling event for the shallow-depth unconsolidated deposits monitoring wells, mid-depth unconsolidated deposits monitoring wells and bedrock monitoring wells are listed on Figures 11 through 13. The stabilized DO and ORP measurements taken at the end of the low-flow purging process suggest conditions conducive for reductive dechlorination of TCE (DO less than 0.50 mg/L or ORP less than 50 mV) are present at most of the mid-depth unconsolidated deposits monitoring wells except at monitoring well MW-14DR located on the northwest side of the former OECI electroplating facility. The DO and ORP data from the shallow-depth monitoring wells produced mixed results, but suggest reducing conditions exist on north side of the former OECI Site electroplating facility at monitoring wells MW-1S and MW-4S and on the southeast side of the former OECI Site electroplating facility at monitoring well MW-9S. The DO and ORP data also indicate reducing conditions are present in the shallow groundwater beneath the wetland on the south side of Elm Street around monitoring wells MW-12S, MW-16S and MW-105S. The DO and ORP data from the bedrock monitoring wells suggest conditions are favorable for reductive dechlorination in the bedrock beneath most of the former OECI Site electroplating facility except around monitoring well OW-6 located on the south side of the former OECI electroplating facility.

The scoring system for MNA parameters presented in the June 2006 Minnesota Pollution Control Agency Site Remediation Section report entitled "Natural Attenuation of Chlorinated Solvents in Ground Water" was used to evaluate the MNA data from the May 2016 sampling event. A copy of the Table included in Appendix B of the June 2006 Minnesota Pollution Control Agency Site Remediation Section report that lists the scoring criteria for the MNA parameters is included in Appendix D. Points are also given if VC, cis-DCE or chloroethane are present in the sample. VC and cis-DCE are produced during the biological reductive dechlorination of TCE and chloroethane is a product of VC biodegradation under reducing conditions. Zero, one, two, three or minus three points were assigned to each MNA parameter result for each of the groundwater samples collected from the OECI Site monitoring wells during the May 2016 sampling event based on the scoring criteria listed on the Table in Appendix D. The total points given for the monitoring wells samples and the interpretation as to whether the MNA parameters data is indicative of conditions favorable for natural biodegradation of chlorinated ethenes is presented on Table 5. The scores calculated from the May 2015 sampling event data, which were discussed in the August 26, 2015 annual monitoring report, are also included on Table 5. As listed on Table 5, samples with a total score between 0 and 5 are considered to have inadequate evidence for biodegradation. Groundwater samples from 10 of the OECI Site monitoring wells fell within this range. Five of the 10 were water table monitoring wells, three were mid-depth unconsolidated deposits monitoring wells and two were bedrock monitoring wells. A total score between 6 and 14 provides limited evidence for biodegradation. Groundwater samples from 18 of the OECI Site monitoring wells were within this range. Six of the 18 were water table monitoring wells, six were mid-depth unconsolidated deposits monitoring wells and six were bedrock monitoring wells.

4.3 Residential Wells Sample Results

Groundwater sample results for residential wells are presented on Table 4. The VOCs that were detected in one or more of the residential wells groundwater samples collected during the November 2015 sampling event are summarized below:

Compound	NR140 ES (µg/L)	NR140 PAL (µg/L)	"BD" Highest Detected Result (µg/L)	11- 2016 RL (µg/L)	11- 2016 LOQ (µg/L)	11-2016 Lowest Detected Result (µg/L)	11-2016 Highest Detected Result (µg/L)	11-2016 Number of Wells with a J-flagged Result	11-2016 Number of Wells with a Detection
1,2-Dichloroethane	5.0	0.5	0.065	0.04	0.14	0.048	0.065	2	2
cis-DCE	70.	7.0	6.0	0.06	0.21	0.11	6.0	1	7
Diisopropyl ether			NA	0.04	0.15	0.13	0.13	1	1
Methyl tert-butyl ether	60.	12.	1.3	0.04	0.15	0.43	1.0	0	7
Toluene	800.	160.	1.6	0.06	0.21	0.083	0.083	1	1
trans-DCE	100.	20.	0.65	0.06	0.20	0.066	0.26	5	6
TCE	5.0	0.5	0.65	0.03	0.10	0.031	0.69	4	5
VC	0.2	0.02	0.08	0.016	0.052	0.021	0.055	3	5

Notes:

- "BD" = Before in-situ treatment of soil in source Area A with Daramend, which took place in June 2013.
- NA = Not Analyzed
- RL = Undiluted Reporting Limit
- LOQ = Undiluted Limit of Quantitation
- J flag = Reported concentration was between the RL and LOQ.

As shown above, VC was detected in five of the seven residential wells samples at concentrations exceeding the Chapter NR140 PAL of $0.02~\mu g/L$ but below the ES of $0.20~\mu g/L$. VC was detected for the first time in a sample collected from the residential well located on the 2607 Elm Street property (Well ID: PW-10) at a reported J-flagged concentration $0.021~\mu g/L$ (see November 5, 2015 PW-10 result in Table 4). The J-flag qualifier indicates the VC concentration in the sample was lower than the LOQ of $0.052~\mu g/L$ and therefore the listed concentration is an estimate value. The reported TCE concentration in the groundwater sample collected from the residential well located on the 2601 Oak Street property (Well ID: PW-03) exceeded the NR140 PAL of $0.50~\mu g/L$. The reported TCE concentrations in the four other residential wells samples that had TCE detections were below the PAL. None of the other compounds detected in the residential wells samples exceeded their respective NR140 groundwater quality standards.

The residential wells sampling results were reported to the property owners and to the occupants of the house if the property owners did not reside on the property using WDNR Site Investigation Sampling Results Notification Form 4400-249. A copy of the analytical report for the groundwater sample collected from the residential well, a table summarizing the analytical results and figure showing the location of the residential well on the property were included with the Site Investigation Sampling Results Notification Form. Copies of the notifications were also submitted to the WDNR Project Manager for the OECI Site, Mr. Aristeo (Resty) Pelayo, via email.

5.0 CONCLUSIONS

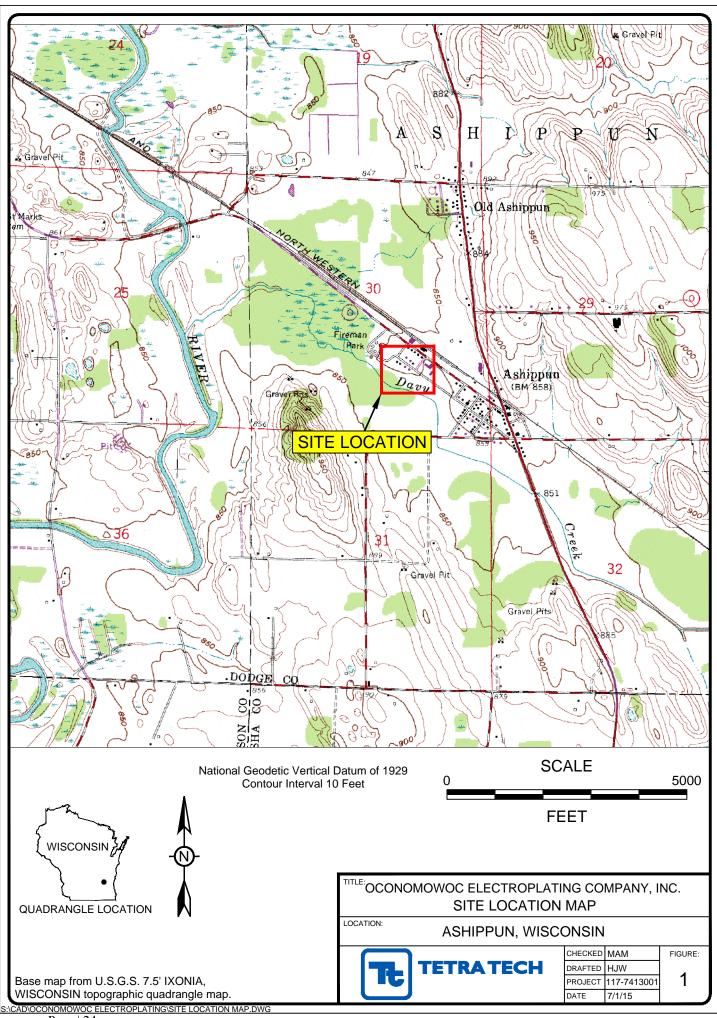
The depth to groundwater measurements collected from the OECI Site monitoring wells during the November 2015 and May 2016 groundwater monitoring events indicate groundwater flow is predominantly to the southwest, toward Davy Creek, in the unconsolidated deposits and to the west in the bedrock. The flow directions produced from the November 2015 and May 2016 monitoring events are consistent with the flow directions produced from the December 2014 and May 2015 sampling events. Based on the vertical gradients calculated from the nested OECI Site monitoring wells water level data, vertical gradients are predominantly upward in the wetland area located south of Elm Street and predominantly downward north of Elm Street. The vertical gradient data from the monitoring well nests south of Elm Street suggest groundwater discharges to the wetland and Davy Creek.

The VOCs analytical data indicate the center of mass of the TCE plume is south of Elm Street and the highest TCE impacts occur at water table monitoring well MW-105S (1,200 µg/L). TCE was detected in all but one of the mid-depth unconsolidated deposits monitoring wells and the TCE plume extends further west in the zone monitored by the mid-depth monitoring wells compared to the zone monitored by the water table monitoring wells. The analytical data from the bedrock monitoring wells and residential wells indicate TCE impacts are of limited extent in the bedrock and where present do not exceed the NR140 ES of 5.0 µg/L. The monitoring wells time series charts produced from January 2009 through May 2016 sampling events analytical results indicate TCE concentrations are non-detect, stable or decreasing in 23 of the 28 monitoring wells that are part of the OECI Site groundwater sampling program, which suggests the OECI Site plume is stable to decreasing.

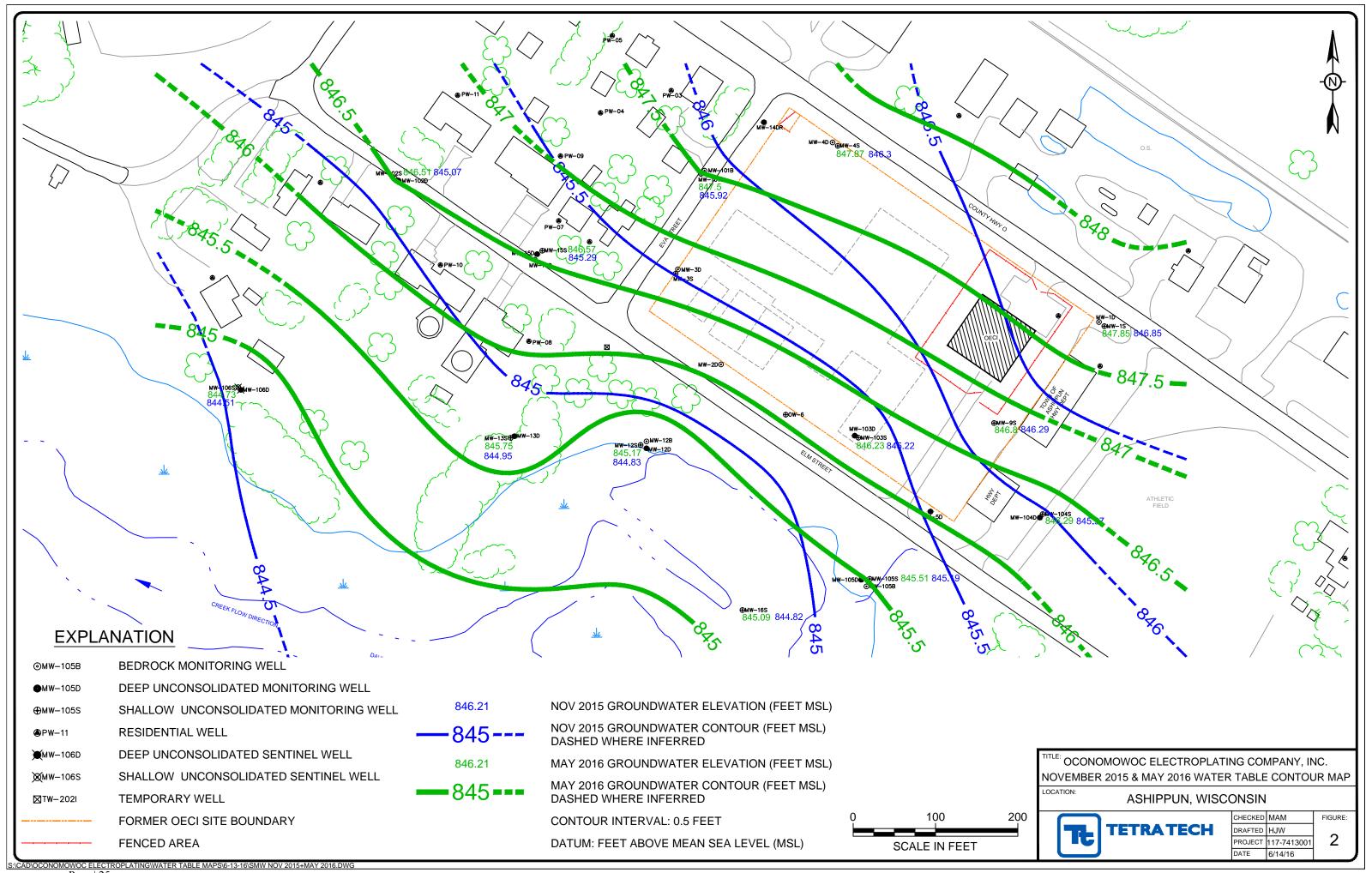
The groundwater sample collected from water table monitoring well MW-16S during the May 2016 sampling event had the highest VC impacts (23 μ g/L), which places the center of mass of the VC plume south of Elm Street. VC impacts exceeding the NR140 ES of 0.20 μ g/L are most extensive in the zone monitored by the mid-depth unconsolidated deposits monitoring wells. The analytical results from mid-depth monitoring wells MW-15D and MW-102D suggest VC impacts may be increasing near the western edge of the OECI Site plume in the mid-depth zone. The analytical results from the bedrock monitoring wells and residential wells indicate VC impacts in the bedrock, where present, do not exceed the NR140 ES and are less extensive compared to the extent of VC impacts in the unconsolidated deposits.

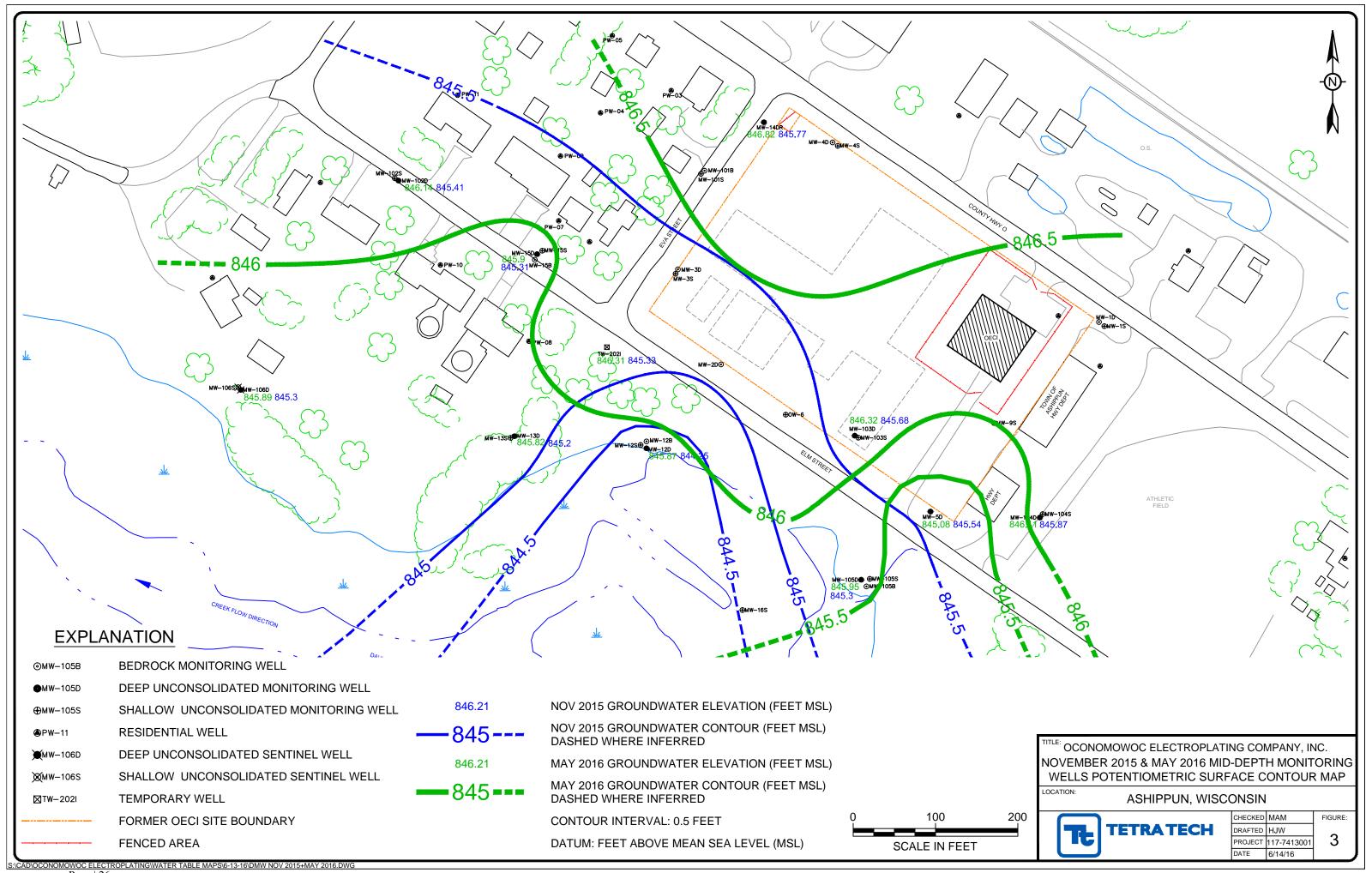
The presence of VC and cis-DCE in many of the monitoring wells samples indicate reductive dechlorination of TCE is occurring within the OECI Site contaminant plume. However, the MNA parameters data suggest site conditions are not optimal for natural biodegradation.

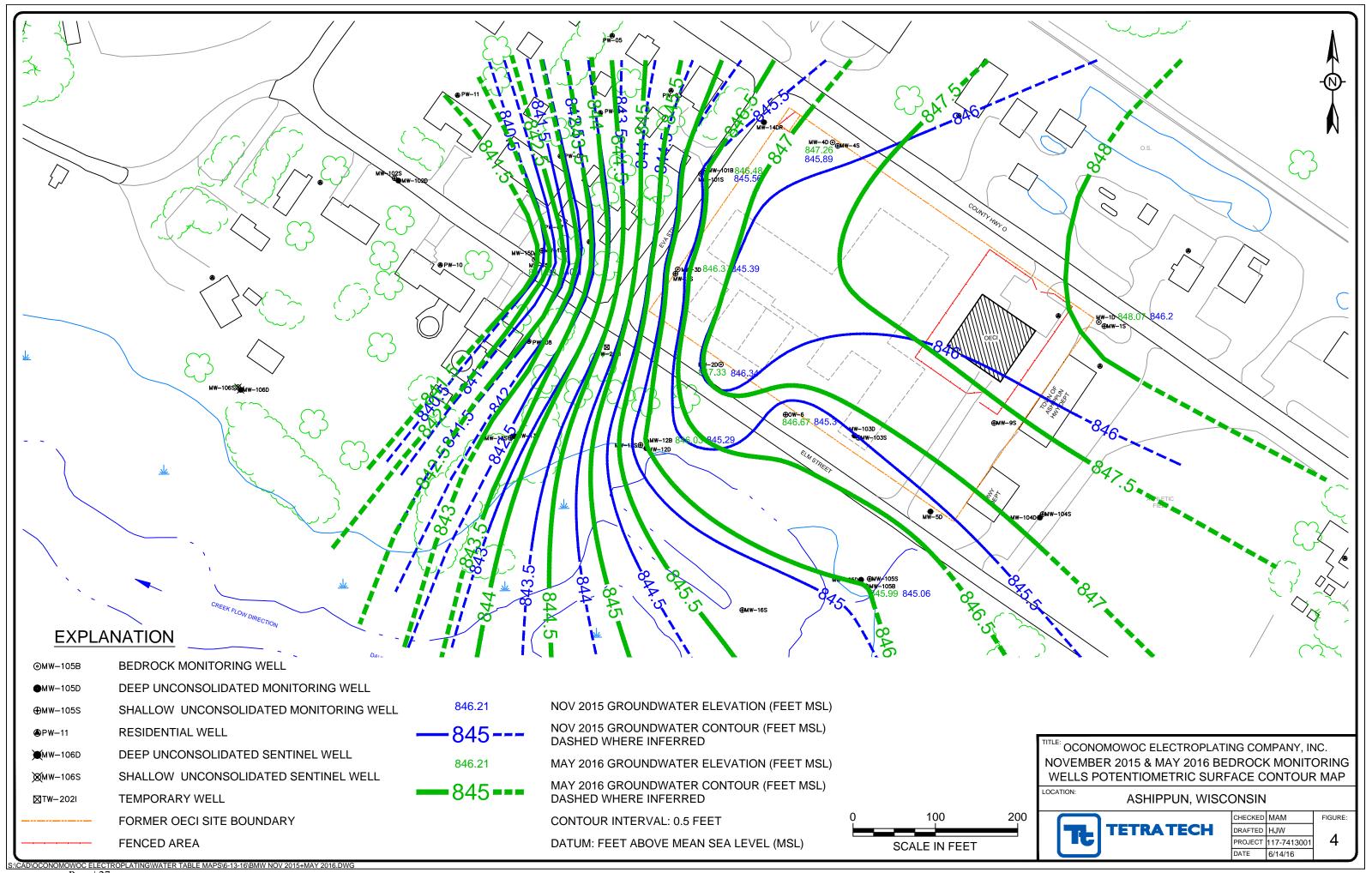
FIGURES

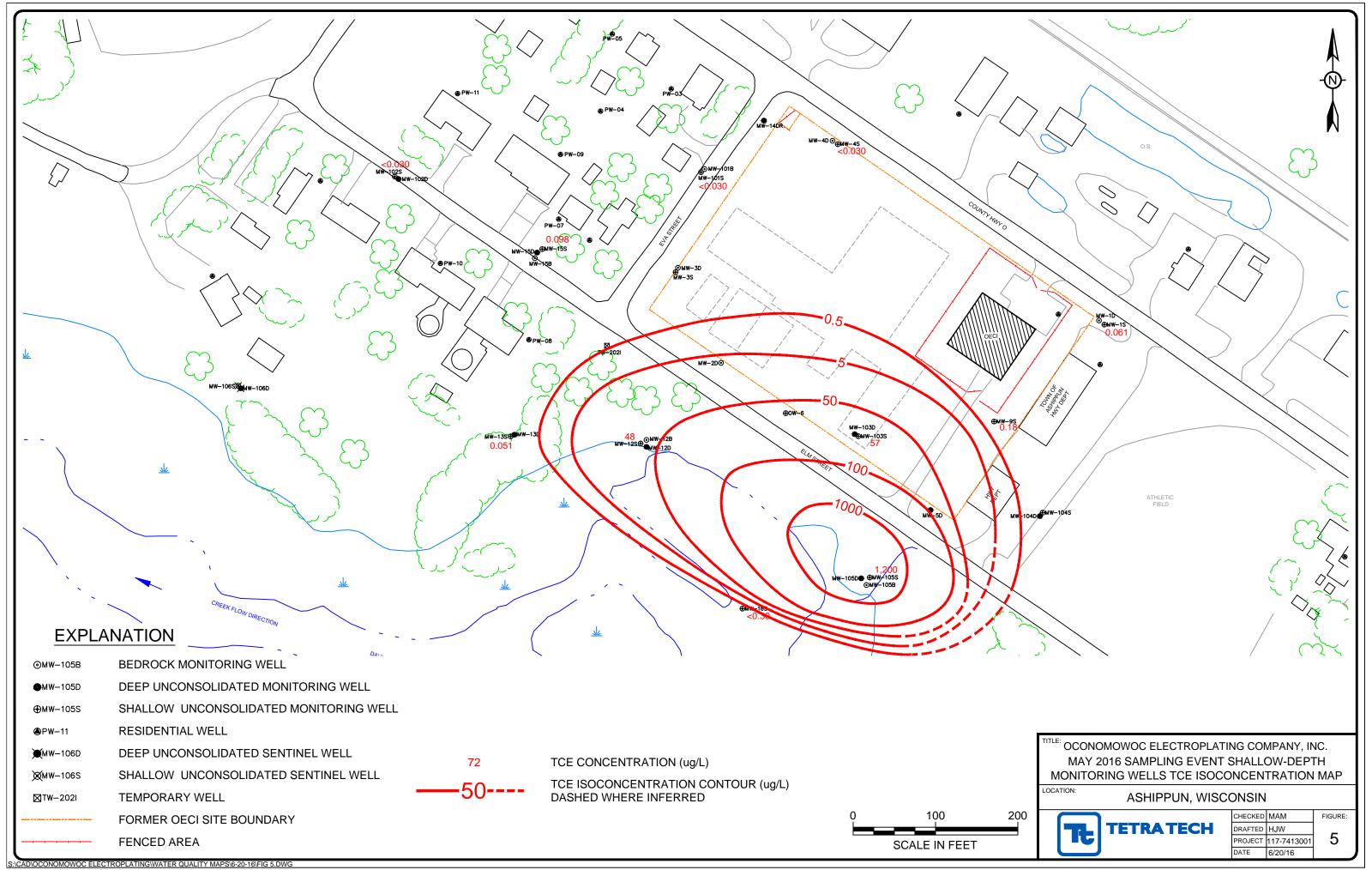


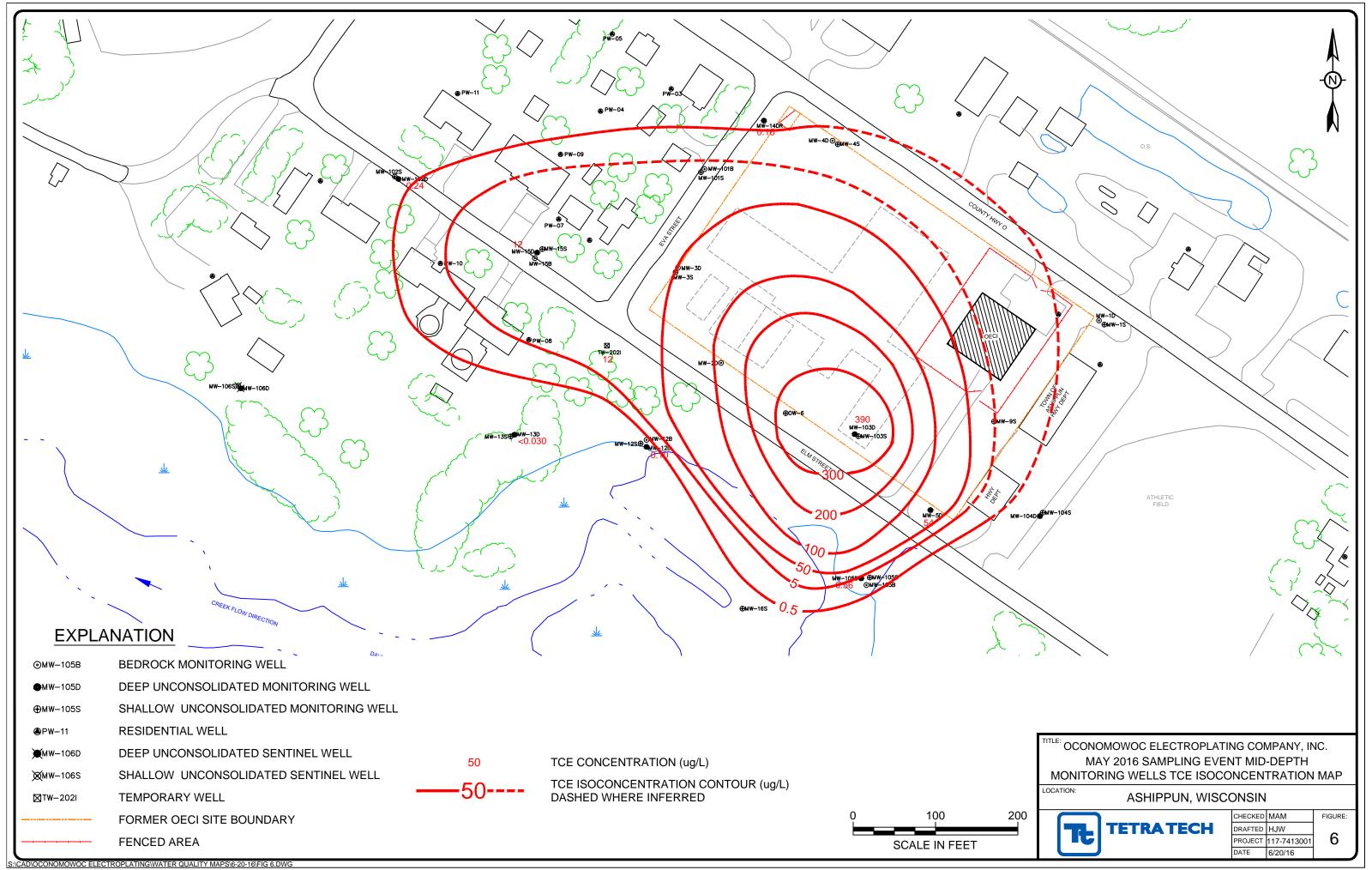
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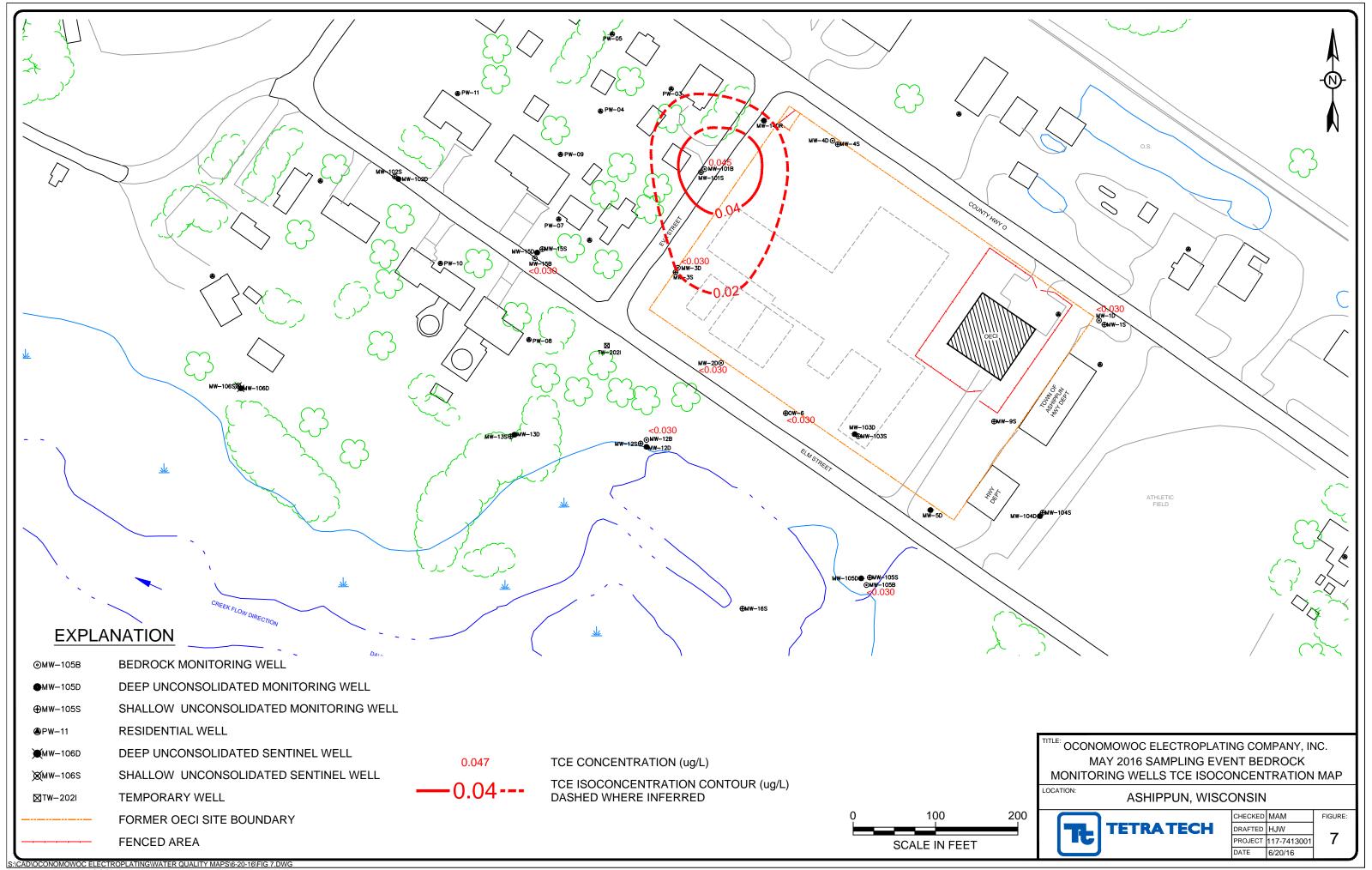


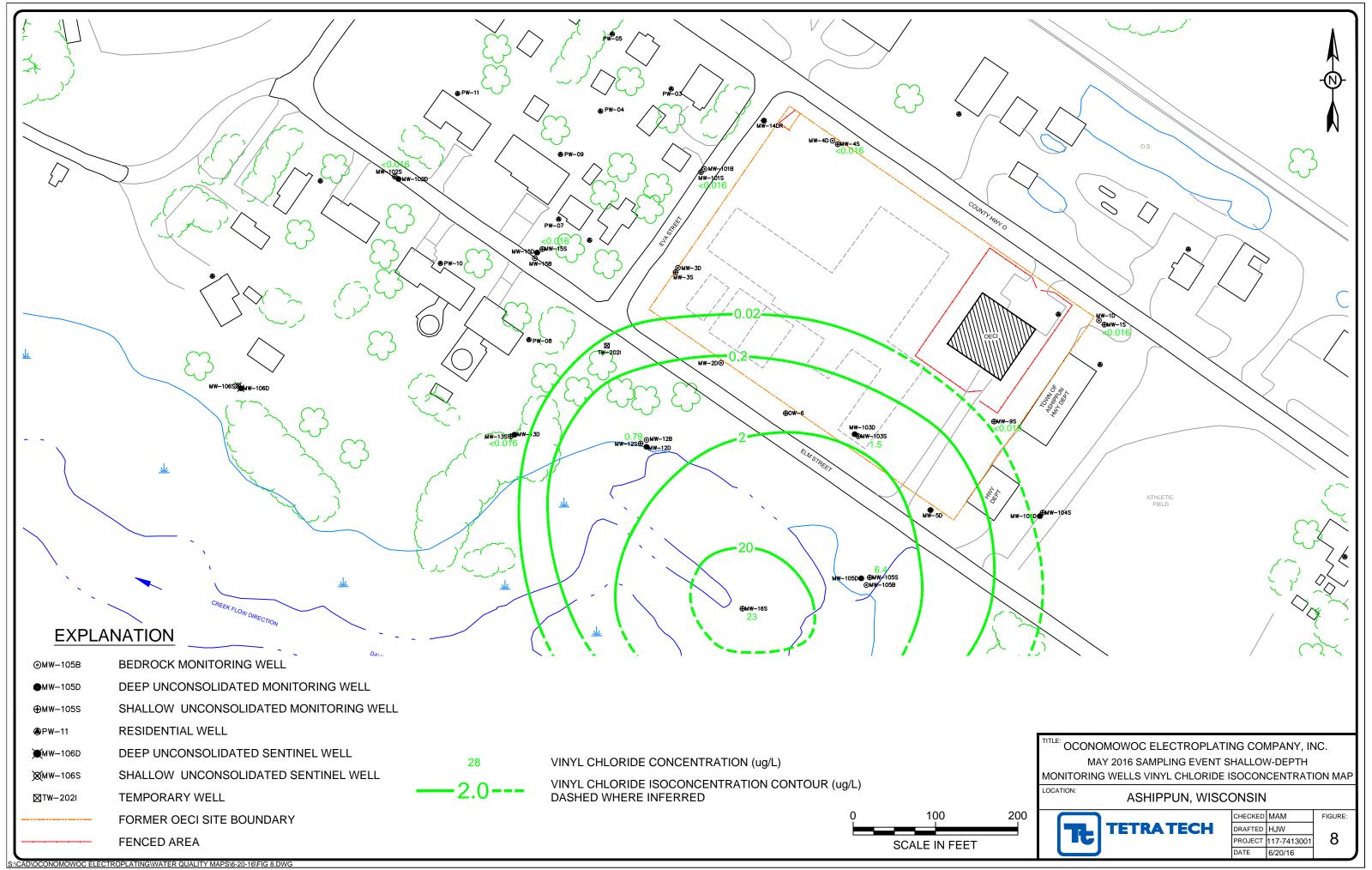


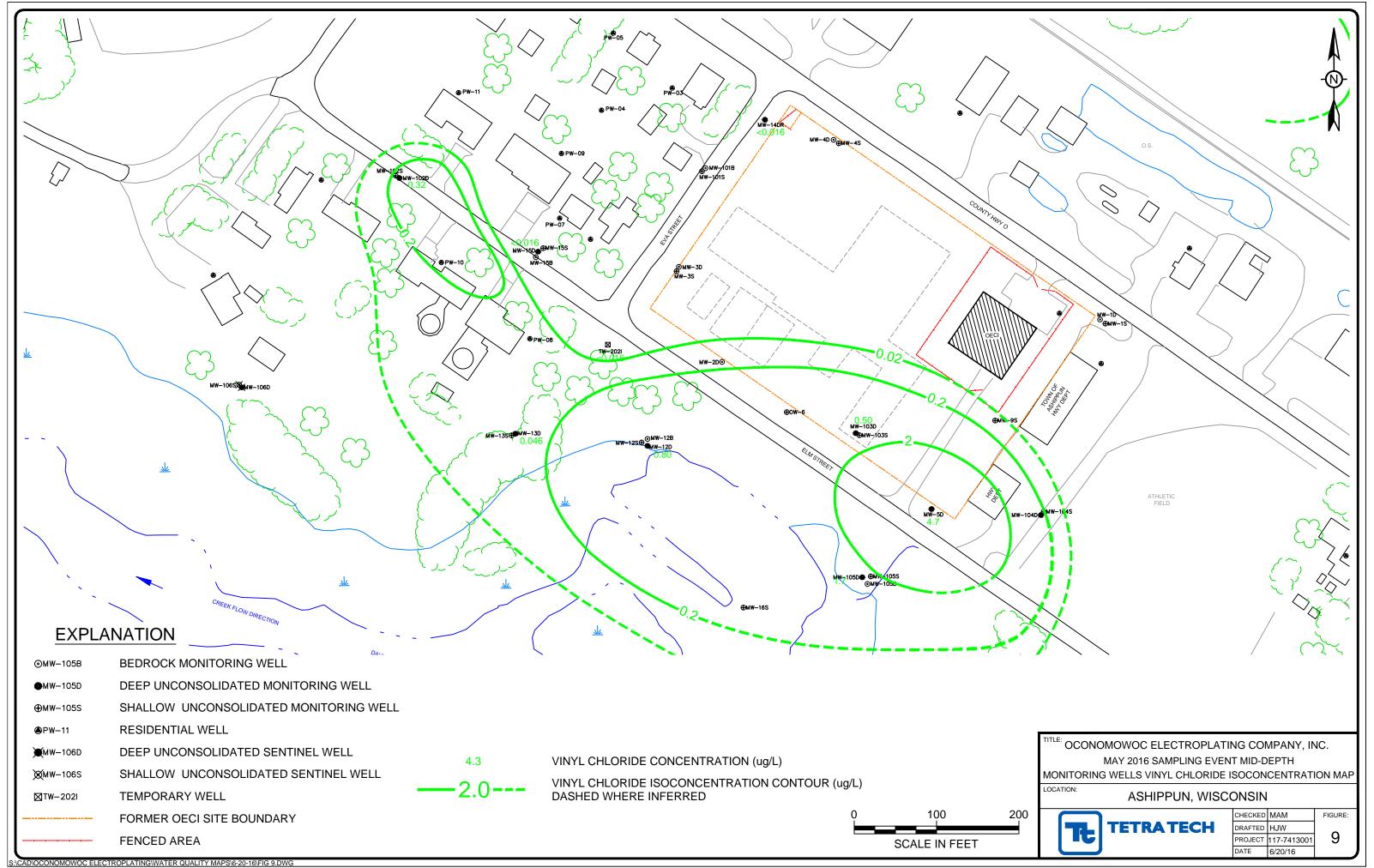


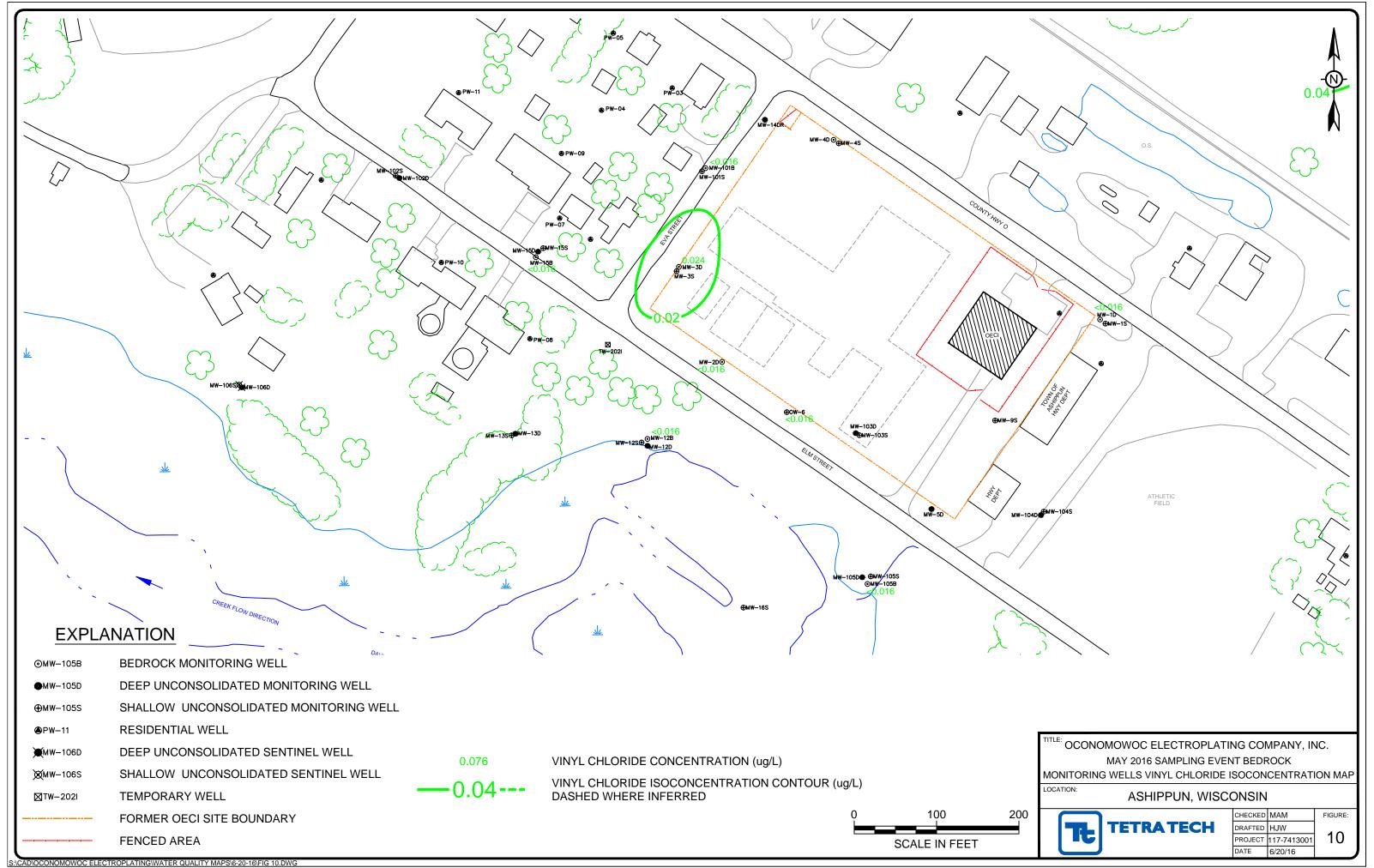


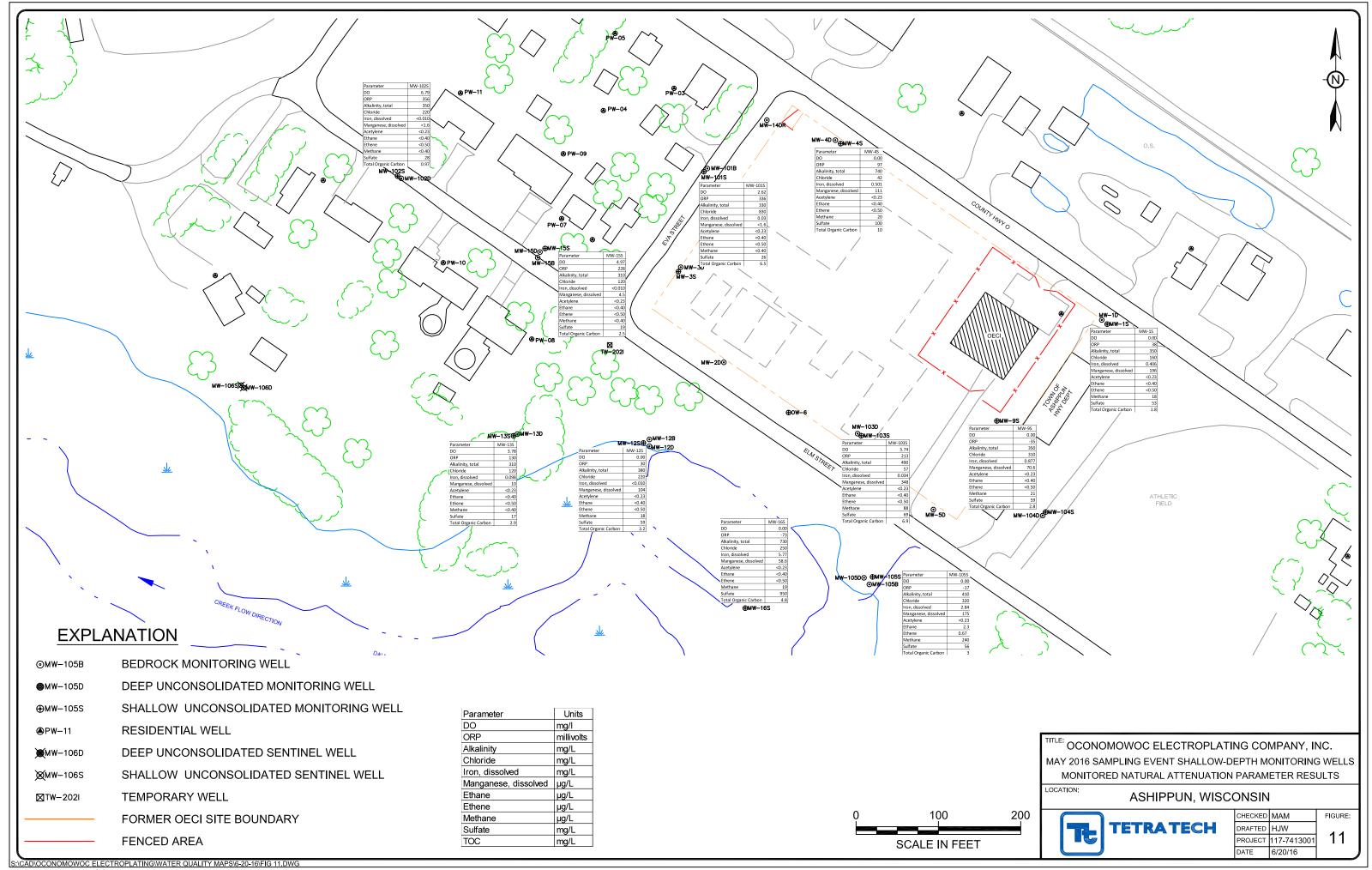


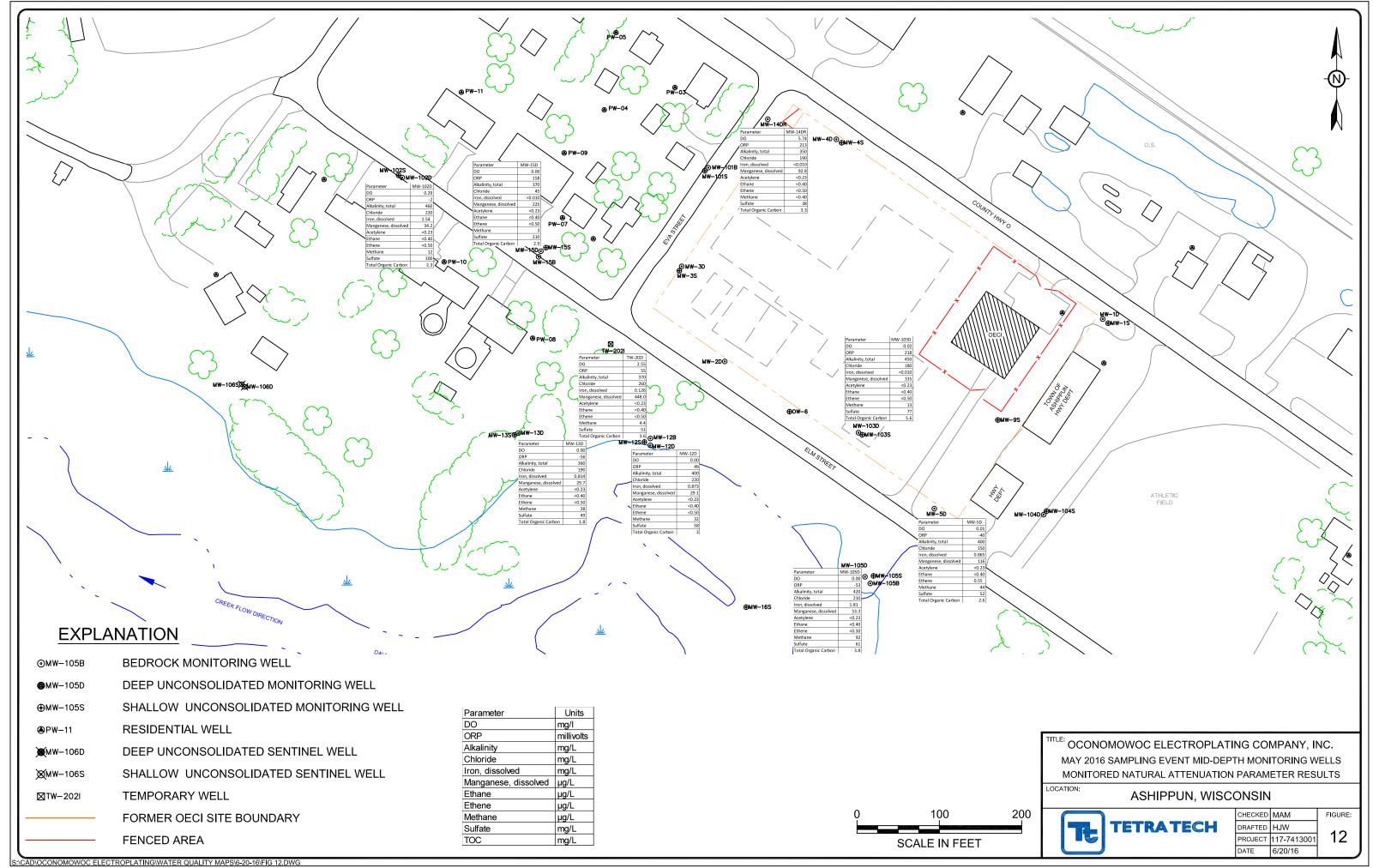


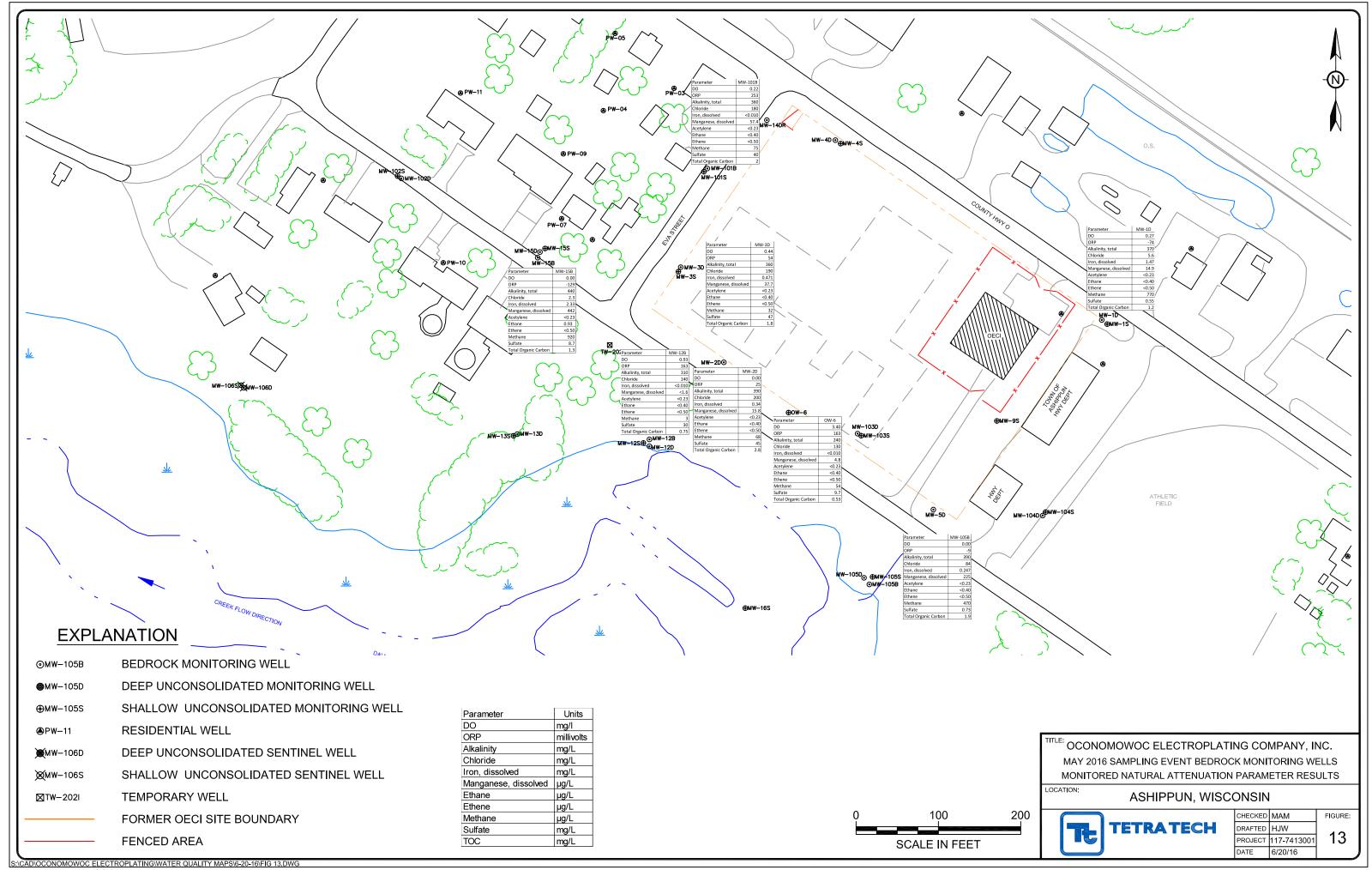












TABLES

Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date M	easured	12/10/2014	5/4/2015	11/2/2015	5/9/2016	12/10/2014	5/4/2015	11/2/2015	5/9/2016	12/11/2014	5/4/2015
Well Parameters	Units	MW-1S	MW-1S	MW-1S	MW-1S	MW-1D	MW-1D	MW-1D	MW-1D	MW-2D	MW-2D
Туре		WT	WT	WT	WT	BR	BR	BR	BR	BR	BR
Reference TOC Elevation	ft MSL	853.42	853.42	853.42	853.42	853.14	853.14	853.14	853.14	852.36	852.36
Screen Length	ft	10.	10.	10.	10.	10.	10.	10.	10.	10.	10.
Depth to Groundwater (from TOC)	ft btoc	6.68	5.39	6.57	5.57	7.07	5.32	6.94	5.07	5.94	4.9
Groundwater Elevation	ft MSL	846.74	848.03	846.85	847.85	846.07	847.82	846.20	848.07	846.42	847.46
Depth to Bottom of Well (from TOC)	ft btoc	17.59	17.59	17.59	17.59	50.72	50.72	50.72	50.72	43.48	43.48
Height of Water Column in Well	feet	10.91	12.2	11.02	12.02	43.65	45.4	43.78	45.65	37.54	38.58

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date M	easured	11/2/2015	5/9/2016	12/10/2014	5/4/2015	11/2/2015	5/9/2016	12/11/2014	5/4/2015	11/2/2015	5/9/2016
Well Parameters	Units	MW-2D	MW-2D	MW-3D	MW-3D	MW-3D	MW-3D	MW-4S	MW-4S	MW-4S	MW-4S
Туре		BR	BR	BR	BR	BR	BR	WT	WT	WT	WT
Reference TOC Elevation	ft MSL	852.36	852.36	853.51	853.51	853.51	853.51	854.58	854.58	854.58	854.58
Screen Length	ft	10.	10.	10.	10.	10.	10.	10.	10.	10.	10.
Depth to Groundwater (from TOC)	ft btoc	6.02	5.03	7.56	5.98	8.12	7.21	8.37	6.62	8.28	6.71
Groundwater Elevation	ft MSL	846.34	847.33	845.95	847.53	845.39	846.30	846.21	847.96	846.30	847.87
Depth to Bottom of Well (from TOC)	ft btoc	43.48	43.48	50.56	50.56	50.56	50.56	18.09	18.09	18.09	18.09
Height of Water Column in Well	feet	37.46	38.45	43	44.58	42.44	43.35	9.72	11.47	9.81	11.38

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date N	leasured	5/4/2015	11/2/2015	5/9/2016	12/10/2014	5/4/2015	11/2/2015	5/9/2016	12/10/2014	5/4/2015	11/2/2015
Well Parameters	Units	MW-4D	MW-4D	MW-4D	MW-5D	MW-5D	MW-5D	MW-5D	MW-9S	MW-9S	MW-9S
Туре		BR	BR	BR	Pz	Pz	Pz	Pz	WT	WT	WT
Reference TOC Elevation	ft MSL	854.63	854.63	854.63	848.80	848.80	848.80	848.80	851.57	851.57	851.57
Screen Length	ft	10.	10.	10.	5.	5.	5.	5.	10.	10.	10.
Depth to Groundwater (from TOC)	ft btoc	7.41	8.74	7.37	3.95	2.52	3.26	3.72	5.53	4.5	5.28
Groundwater Elevation	ft MSL	847.22	845.89	847.26	844.85	846.28	845.54	845.08	846.04	847.07	846.29
Depth to Bottom of Well (from TOC)	ft btoc				24.45	24.45	24.45	24.45	22.33	22.33	22.33
Height of Water Column in Well	feet				20.5	21.93	21.19	20.73	16.8	17.83	17.05

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date M	easured	5/9/2016	12/11/2014	5/4/2015	11/2/2015	5/9/2016	12/11/2014	5/4/2015	11/2/2015	5/9/2016	12/11/2014
Well Parameters	Units	MW-9S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12D	MW-12D	MW-12D	MW-12D	MW-12B
Туре		WT	WT	WT	WT	WT	Pz	Pz	Pz	Pz	BR
Reference TOC Elevation	ft MSL	851.57	849.17	849.17	849.17	849.17	848.31	848.31	848.31	848.31	849.40
Screen Length	ft	10.	10.	10.	10.	10.	5.	5.	5.	5.	5.
Depth to Groundwater (from TOC)	ft btoc	4.77	4.24	3.79	4.34	4	2.96	2.19	4.06	2.44	4.15
Groundwater Elevation	ft MSL	846.80	844.93	845.38	844.83	845.17	845.35	846.12	844.25	845.87	845.25
Depth to Bottom of Well (from TOC)	ft btoc	22.33	14.89	14.89	14.89	14.89	25.11	25.11	25.11	25.11	44.55
Height of Water Column in Well	feet	17.56	10.65	11.1	10.55	10.89	22.15	22.92	21.05	22.67	40.4

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date M	easured	5/4/2015	11/2/2015	5/9/2016	12/11/2014	5/4/2015	11/2/2015	5/9/2016	12/11/2014	5/4/2015	11/2/2015
Well Parameters	Units	MW-12B	MW-12B	MW-12B	MW-13S	MW-13S	MW-13S	MW-13S	MW-13D	MW-13D	MW-13D
Туре		BR	BR	BR	WT	WT	WT	WT	Pz	Pz	Pz
Reference TOC Elevation	ft MSL	849.40	849.40	849.40	850.91	850.91	850.91	850.91	850.02	850.02	850.02
Screen Length	ft	5.	5.	5.	10.	10.	10.	10.	5.	5.	5.
Depth to Groundwater (from TOC)	ft btoc	3.19	4.11	3.37	5.83	4.98	5.96	5.16	4.84	3.92	4.82
Groundwater Elevation	ft MSL	846.21	845.29	846.03	845.08	845.93	844.95	845.75	845.18	846.10	845.20
Depth to Bottom of Well (from TOC)	ft btoc	44.55	44.55	44.55	15.31	15.31	15.31	15.31	31.94	31.94	31.94
Height of Water Column in Well	feet	41.36	40.44	41.18	9.48	10.33	9.35	10.15	27.1	28.02	27.12

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date M	easured	5/9/2016	12/8/2014	5/4/2015	11/2/2015	5/9/2016	12/9/2014	5/4/2015	11/2/2015	5/9/2016	12/8/2014
Well Parameters	Units	MW-13D	MW-15S	MW-15S	MW-15S	MW-15S	MW-15D	MW-15D	MW-15D	MW-15D	MW-15B
Туре		Pz	WT	WT	WT	WT	Pz	Pz	Pz	Pz	BR
Reference TOC Elevation	ft MSL	850.02	854.68	854.68	854.68	854.68	855.30	855.30	855.30	855.30	854.35
Screen Length	ft	5.	10.	10.	10.	10.	10.	10.	10.	10.	5.
Depth to Groundwater (from TOC)	ft btoc	4.2	9.32	7.96	9.39	8.11	9.91	8.9	9.99	9.4	10.46
Groundwater Elevation	ft MSL	845.82	845.36	846.72	845.29	846.57	845.39	846.40	845.31	845.90	843.89
Depth to Bottom of Well (from TOC)	ft btoc	31.94	16.17	16.17	16.17	16.17	39.19	39.19	39.19	39.19	57.06
Height of Water Column in Well	feet	27.74	6.85	8.21	6.78	8.06	29.28	30.29	29.2	29.79	46.6

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date M	easured	5/4/2015	11/2/2015	5/9/2016	5/4/2015	11/2/2015	5/9/2016	12/9/2014	5/4/2015	11/2/2015	5/9/2016
Well Parameters	Units	MW-15B	MW-15B	MW-15B	MW-16S	MW-16S	MW-16S	MW-101S	MW-101S	MW-101S	MW-101S
Туре		BR	BR	BR	WT	WT	WT	WT	WT	WT	WT
Reference TOC Elevation	ft MSL	854.35	854.35	854.35	847.90	847.90	847.90	851.24	851.24	851.24	851.24
Screen Length	ft	5.	5.	5.	10.	10.	10.	10.	10.	10.	10.
Depth to Groundwater (from TOC)	ft btoc	13.61	14.25	12.97	2.64	3.08	2.81	5.29	3.64	5.32	3.74
Groundwater Elevation	ft MSL	840.74	840.10	841.38	845.26	844.82	845.09	845.95	847.60	845.92	847.50
Depth to Bottom of Well (from TOC)	ft btoc	57.06	57.06	57.06	14.42	14.42	14.42	12.41	12.41	12.41	12.41
Height of Water Column in Well	feet	43.45	42.81	44.09	11.78	11.34	11.61	7.12	8.77	7.09	8.67

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date M	easured	12/9/2014	5/4/2015	11/2/2015	5/9/2016	12/9/2014	5/4/2015	11/2/2015	5/9/2016	12/9/2014	5/4/2015
Well Parameters	Units	MW-101B	MW-101B	MW-101B	MW-101B	MW-102S	MW-102S	MW-102S	MW-102S	MW-102D	MW-102D
Туре		BR	BR	BR	BR	WT	WT	WT	WT	Pz	Pz
Reference TOC Elevation	ft MSL	851.08	851.08	851.08	851.08	853.65	853.65	853.65	853.65	853.70	853.70
Screen Length	ft	5.	5.	5.	5.	10.	10.	10.	10.	5.	5.
Depth to Groundwater (from TOC)	ft btoc	5.46	4.33	5.52	4.6	7.41	7.05	8.58	7.14	8.39	7.32
Groundwater Elevation	ft MSL	845.62	846.75	845.56	846.48	846.24	846.60	845.07	846.51	845.31	846.38
Depth to Bottom of Well (from TOC)	ft btoc	48.75	48.75	48.75	48.75	15.56	15.56	15.56	15.56	48.36	48.36
Height of Water Column in Well	feet	43.29	44.42	43.23	44.15	8.15	8.51	6.98	8.42	39.97	41.04

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date M	easured	11/2/2015	5/9/2016	12/8/2014	5/4/2015	11/4/2015	5/9/2016	12/17/2014	5/4/2015	11/2/2015	5/9/2016
Well Parameters	Units	MW-102D	MW-102D	MW-103S	MW-103S	MW-103S	MW-103S	MW-103D	MW-103D	MW-103D	MW-103D
Туре		Pz	Pz	WT	WT	WT	WT	Pz	Pz	Pz	Pz
Reference TOC Elevation	ft MSL	853.70	853.70	851.84	851.84	851.84	851.84	851.97	851.97	851.97	851.97
Screen Length	ft	5.	5.	10.	10.	10.	10.	5.	5.	5.	5.
Depth to Groundwater (from TOC)	ft btoc	8.29	7.56	6.37	5.49	6.62	5.61	6.52	5.45	6.29	5.65
Groundwater Elevation	ft MSL	845.41	846.14	845.47	846.35	845.22	846.23	845.45	846.52	845.68	846.32
Depth to Bottom of Well (from TOC)	ft btoc	48.36	48.36	16.57	16.57	16.57	16.57	26.86	26.86	26.86	26.86
Height of Water Column in Well	feet	40.07	40.8	10.2	11.08	9.95	10.96	20.34	21.41	20.57	21.21

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date M	easured	5/4/2015	11/2/2015	5/9/2016	5/4/2015	11/2/2015	5/9/2016	12/10/2014	5/4/2015	11/2/2015	5/9/2016
Well Parameters	Units	MW-104S	MW-104S	MW-104S	MW-104D	MW-104D	MW-104D	MW-105S	MW-105S	MW-105S	MW-105S
Туре		WT	WT	WT	Pz	Pz	Pz	WT	WT	WT	WT
Reference TOC Elevation	ft MSL	850.56	850.56	850.56	850.57	850.57	850.57	849.01	849.01	849.01	849.01
Screen Length	ft	10.	10.	10.	5.	5.	5.	10.	10.	10.	10.
Depth to Groundwater (from TOC)	ft btoc	4.19	4.59	4.27	4.06	4.7	4.46	4.03	3.38	3.82	3.5
Groundwater Elevation	ft MSL	846.37	845.97	846.29	846.51	845.87	846.11	844.98	845.63	845.19	845.51
Depth to Bottom of Well (from TOC)	ft btoc	14.53	14.53	14.53	27.64	27.64	27.64	15.58	15.58	15.58	15.58
Height of Water Column in Well	feet	10.34	9.94	10.26	23.58	22.94	23.18	11.55	12.2	11.76	12.08

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date M	easured	12/10/2014	5/4/2015	11/2/2015	5/9/2016	12/10/2014	5/4/2015	11/2/2015	5/9/2016	5/4/2015
Well Parameters	Units	MW-105D	MW-105D	MW-105D	MW-105D	MW-105B	MW-105B	MW-105B	MW-105B	MW-106S
Туре		Pz	Pz	Pz	Pz	BR	BR	BR	BR	WT
Reference TOC Elevation	ft MSL	848.90	848.90	848.90	848.90	848.90	848.90	848.90	848.90	848.92
Screen Length	ft	5.	5.	5.	5.	5.	5.	5.	5.	10.
Depth to Groundwater (from TOC)	ft btoc	3.52	2.8	3.6	2.95	2.82	2.74	3.84	2.91	3.81
Groundwater Elevation	ft MSL	845.38	846.10	845.30	845.95	846.08	846.16	845.06	845.99	845.11
Depth to Bottom of Well (from TOC)	ft btoc	29.61	29.61	29.61	29.61	47.13	47.13	47.13	47.13	17.31
Height of Water Column in Well	feet	26.09	26.81	26.01	26.66	44.31	44.39	43.29	44.22	13.5

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date M	easured	11/2/2015	5/9/2016	5/4/2015	11/2/2015	5/9/2016	12/10/2014	5/4/2015	11/2/2015	5/9/2016	12/11/2014
Well Parameters	Units	MW-106S	MW-106S	MW-106D	MW-106D	MW-106D	TW-202I	TW-202I	TW-202I	TW-202I	OW-6
Туре		WT	WT	Pz	Pz	Pz	Pz	Pz	Pz	Pz	BR
Reference TOC Elevation	ft MSL	848.92	848.92	849.01	849.01	849.01	851.13	851.13	851.13	851.13	851.99
Screen Length	ft	10.	10.	5.	5.	5.	5.	5.	5.	5.	5.
Depth to Groundwater (from TOC)	ft btoc	4.41	4.19	2.85	3.71	3.12	5.95	4.72	5.8	4.82	6.34
Groundwater Elevation	ft MSL	844.51	844.73	846.16	845.30	845.89	845.18	846.41	845.33	846.31	845.65
Depth to Bottom of Well (from TOC)	ft btoc	17.31	17.31	56.72	56.72	56.72	20.98	20.98	20.98	20.98	50.56
Height of Water Column in Well	feet	12.9	13.12	53.87	53.01	53.6	15.03	16.26	15.18	16.16	44.22

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 1. Water Level Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Date Mo	easured	5/4/2015	11/2/2015	5/9/2016	12/15/2014	5/4/2015	11/2/2015	5/9/2016
Well Parameters	Units	OW-6	OW-6	OW-6	MW-14DR	MW-14DR	MW-14DR	MW-14DR
Туре		BR	BR	BR	Pz	Pz	Pz	Pz
Reference TOC Elevation	ft MSL	851.99	851.99	851.99	851.00	851.00	851.00	851.00
Screen Length	ft	5.	5.	5.	10.	10.	10.	10.
Depth to Groundwater (from TOC)	ft btoc	5.27	6.69	5.32	5.51	3.58	5.23	4.18
Groundwater Elevation	ft MSL	846.72	845.30	846.67	845.49	847.42	845.77	846.82
Depth to Bottom of Well (from TOC)	ft btoc	50.56	50.56	50.56	31.74	31.74	31.74	31.74
Height of Water Column in Well	feet	45.29	43.87	45.24	26.23	28.16	26.51	27.56

ft MSL = feet above mean sea level

ft = feet

ft btoc = feet below top of well casing

WT = Water Table monitoring well.

Pz = Unconsolidated deposits monitoirng well.



Table 2. Vertical Gradient Calculations, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Well Nests

						Vertical Grad	dient Cald	culations					
					Bottom								
	Ground	Top of		Top of	of								
	Surface	Casing	Screen	Screen	Screen		Depth	GW	Gradient		Depth	GW	Gradient
	Elev.	Elev.	Length	Elev.	Elev.		to GW	Elev.	+:Down,		to GW	Elev.	+:Down,
Well ID	(ft MSL)	(ft MSL)	(ft)	(ft MSL)	(ft MSL)	Date	(ft btoc)	(ft MSL)	- :Up	Date	(ft btoc)	(ft MSL)	- :Up
MW-1S	851.75	853.42	10.0	845.95	835.95	12/10/2014	6.68	846.74		5/4/2015	5.39	848.03	
MW-1D	851.68	853.14	10.0	809.58	799.58	12/10/2014	7.07	846.07	0.0159	5/4/2015	5.32	847.82	0.0048
MW-4S	852.06	854.58	10.0	847.26	837.26	12/11/2014	8.37	846.21		5/4/2015	6.62	847.96	
MW-4D	852.08	854.63	10.0	812.18	802.18					5/4/2015	7.41	847.22	0.0181
MW-12S	846.73	849.17	10.0	843.73	833.73	12/11/2014	4.24	844.93		5/4/2015	3.79	845.38	
MW-12D	846.52	848.31	5.0	828.52	823.52	12/11/2014	2.96	845.35	-0.0222	5/4/2015	2.19	846.12	-0.0382
MW-12B	847.01	849.40	5.0	811.01	806.01	12/11/2014	4.15	845.25	0.0057	5/4/2015	3.19	846.21	-0.0051
MW-13S	847.67	850.91	10.0	844.67	834.67	12/11/2014	5.83	845.08		5/4/2015	4.98	845.93	
MW-13D	847.40	850.02	5.0	823.40	818.40	12/11/2014	4.84	845.18	-0.0041	5/4/2015	3.92	846.10	-0.0068
MW-15S	855.10	854.68	10.0	848.60	838.60	12/8/2014	9.32	845.36		5/4/2015	7.96	846.72	
MW-15D	855.53	855.30	10.0	823.53	813.53	12/9/2014	9.91	845.39	-0.0011	5/4/2015	8.90	846.40	
MW-15B	854.80	854.35	5.0	802.30	797.30	12/8/2014	10.46	843.89	0.0801	5/4/2015	13.61	840.74	0.3022
MW-101S	851.60	851.24	10.0	848.60	838.60	12/15/2014	5.31	845.93		5/4/2015	3.64	847.60	
MW-101B	851.50	851.08	5.0	807.50	802.50	12/9/2014	5.46	845.62	0.0076	5/4/2015	4.33	846.75	0.0200
MW-102S	854.20	853.65	10.0	848.20	838.20	12/9/2014	7.41	846.24		5/4/2015	7.05	846.60	
MW-102D	854.20	853.70	5.0	810.20	805.20	12/9/2014	8.39	845.31	0.0241	5/4/2015	7.32	846.38	0.0057
MW-103S	849.40	851.84	10.0	845.40	835.40	12/8/2014	6.32	845.52		5/4/2015	5.49	846.35	
MW-103D	849.30	851.97	5.0	830.30	825.30	12/8/2014	6.52	845.45	0.0040	5/4/2015	5.45	846.52	-0.0092
MW-104S	850.90	850.56	10.0	845.90	835.90					5/4/2015			
MW-104D	850.90	850.57	5.0	827.90	822.90					5/4/2015	4.06	846.51	-0.0067
MW-105S	846.40	849.01	10.0	843.40	833.40	12/10/2014	4.03	844.98		5/4/2015	3.38	845.63	
MW-105D	846.30	848.90	5.0	824.30	819.30		3.52	845.38	-0.0173	5/4/2015		846.10	
MW-105B	846.10	848.90	5.0	807.10	802.10		2.82	846.08	-0.0407	5/4/2015	2.74	846.16	
MW-106S	846.30	848.92	10.0	841.30	831.30					5/4/2015	3.81	845.11	
MW-106D	846.30	849.01	5.0	797.30	792.30					5/4/2015	2.85	846.16	-0.0209

Notes: ft = feet

ft bgs = feet below ground surface

ft MSL = feet above Mean Sea Level

ft btoc = feet below top of well casing





Table 2. Vertical Gradient Calculations, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Well Nests

						Vertical Gra	adient Cal	culations					
					Bottom								
	Ground	Top of		Top of	of								
	Surface	Casing	Screen	Screen	Screen		Depth to	GW	Gradient +		Depth	GW	Gradient +
	Elev.	Elev.	Length	Elev.	Elev.		GW (ft	Elev. (ft	:Down, -		to GW	Elev.	:Down, -
Well ID	(ft MSL)	(ft MSL)	(ft)	(ft MSL)	(ft MSL)	Date	btoc)	MSL)	:Up	Date	(ft btoc)	(ft MSL)	:Up
MW-1S	851.75	853.42	10.0	845.95	835.95	11/2/2015	6.57	846.85		5/9/2016	5.57	847.85	
MW-1D	851.68	853.14	10.0	809.58	799.58	11/2/2015	6.94	846.20	0.0154	5/9/2016	5.07	848.07	-0.0051
MW-4S	852.06	854.58	10.0	847.26	837.26	11/2/2015	8.28	846.30		5/9/2016		847.87	
MW-4D	852.08	854.63	10.0	812.18	802.18	11/2/2015	8.74	845.89	0.0105	5/9/2016	7.37	847.26	0.0150
MW-12S	846.73	849.17	10.0	843.73	833.73	11/2/2015	4.34	844.83		5/9/2016	4.00	845.17	
MW-12D	846.52	848.31	5.0	828.52	823.52	11/2/2015	4.06	844.25	0.0308	5/9/2016	2.44	845.87	-0.0366
MW-12B	847.01	849.40	5.0	811.01	806.01	11/2/2015	4.11	845.29	-0.0594	5/9/2016	3.37	846.03	-0.0091
MW-13S	847.67	850.91	10.0	844.67	834.67	11/2/2015	5.96	844.95		5/9/2016	5.16		
MW-13D	847.40	850.02	5.0	823.40	818.40		4.82	845.20	-0.0104		4.20		-0.0028
MW-15S	855.10	854.68	10.0	848.60	838.60	11/2/2015	9.39	845.29		5/9/2016	8.11	846.57	
MW-15D	855.53	855.30	10.0	823.53	813.53	11/2/2015	9.99	845.31	-0.0007	5/9/2016	9.40		0.0239
MW-15B	854.80	854.35	5.0	802.30	797.30		14.25	840.10	0.2782	5/9/2016	12.97	841.38	0.2413
MW-101S	851.60	851.24	10.0	848.60	838.60		5.32	845.92		5/9/2016			
MW-101B	851.50	851.08	5.0	807.50	802.50	11/2/2015	5.52	845.56	0.0088	5/9/2016	4.60		0.0240
MW-102S	854.20	853.65	10.0	848.20	838.20		8.58	845.07		5/9/2016			
MW-102D	854.20	853.70	5.0	810.20	805.20		8.29	845.41	-0.0091	5/9/2016	7.56	846.14	0.0095
MW-103S	849.40	851.84	10.0	845.40	835.40	11/2/2015	6.62	845.22		5/9/2016	5.61	846.23	
MW-103D	849.30	851.97	5.0	830.30	825.30		6.29	845.68	-0.0264	5/9/2016	5.65	846.32	-0.0049
MW-104S	850.90	850.56	10.0	845.90	835.90		4.59	845.97		5/9/2016		846.29	
MW-104D	850.90	850.57	5.0	827.90	822.90	11/2/2015	4.70	845.87	0.0049	5/9/2016	4.46	846.11	0.0086
MW-105S	846.40	849.01	10.0	843.40	833.40		3.82	845.19		5/9/2016			
MW-105D	846.30	848.90	5.0	824.30	819.30		3.60	845.30	-0.0047	5/9/2016	2.95	845.95	-0.0186
MW-105B	846.10	848.90	5.0	807.10	802.10	11/2/2015	3.84	845.06	0.0140	5/9/2016	2.91	845.99	-0.0023
MW-106S	846.30		10.0	841.30	831.30		4.41	844.51		5/9/2016			
MW-106D	846.30	849.01	5.0	797.30	792.30	11/2/2015	3.71	845.30	-0.0159	5/9/2016	3.12	845.89	-0.0232

Notes: ft = feet

ft bgs = feet below ground surface

ft MSL = feet above Mean Sea Level

ft btoc = feet below top of well casing





Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

		Date	e Sampled	12/10/2014	5/5/2015	11/03/2015	5/10/2016	12/10/2014	5/5/2015
	Units	NR140 ES	NR140 PAL	MW-1S	MW-1S	MW-1S	MW-1S	MW-1D	MW-1D
Field Parameters		LO	IAL						
Dissolved Oxygen (DO)	mg/L			0.97	0.71	0.46	0.00	10.96	0.0
Oxidation Reduction Potential	millivolts			38	72	69	38	-155	-10
рН	pH-units			7.33	6.80	7.09	6.95	7.66	7.4
Specific Conductivity	umhos/cm			1020	1400	1380	1110	505	63
Temperature	deg-C			9.32	8.08	17.22	9.95	10.67	9.5
Turbidity	ntu			0.	10.2	0.	9.	0.	6.
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L			340.	350.	380.	350.	350.	330.
Chloride (as CI)	mg/L	250.	125.	240.	190.	230.	160.	7.8	5.9
Iron, total (unfiltered)	mg/L			0.473	0.183	<0.02 U	2.32	3.14	2.15 [
Iron, dissolved (filtered)	mg/L	0.3	0.15	<0.010 U	0.0673	0.406	0.406	3.07	1.76
Manganese, total (unfiltered)	μg/L			44.1	131.	76.7 Y,M	206.	18.2	18.7
Manganese, dissolved (filtered)	μg/L	50.	25.	16.4	129.	97.2	196.	20.7	21.6
Acetylene	μg/L			<0.23 U	<0.23 UM,Y	<0.23 U	<0.23 U	<0.23 UM	< 0.23
Ethane	μg/L			<0.60 U	<0.60 UY	<0.9 U	<0.40 U	0.75 J	< 0.60
Ethene	μg/L			<0.90 U	<0.90 U	<1.2 U	<0.50 U	<0.90 U	< 0.90
Methane	μg/L			2.2	16 M	8.2	18.	1500 M	560.
Sulfate(as SO4)	mg/L	250.	125.	50.	50.	49.	53.	<1.0 U	<1.0
Total Organic Carbon	mg/L			1.4 J	1.2 J	1.7	1.8	<0.40 U	0.52 J
<u>VOCs</u>									
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.030 U	<0.030 U	<0.05 U	<0.050 U	<0.030 U	<0.030 l
1,1,1-Trichloroethane	μg/L	200.	40.	<0.030 U	<0.030 U	<0.06 U	<0.060 U	<0.030 U	<0.030
1,1-Dichloroethane	μg/L	850.	85.	0.15	0.31	0.11 J	0.24	<0.024 U	<0.024
1,1-Dichloroethene	μg/L	7.	0.7	<0.024 U	<0.024 U	<0.07 U	<0.070 U	<0.024 U	<0.024
1,2,3-Trichlorobenzene	μg/L			<0.040 U		<0.05 U	<0.050 U	<0.040 U	< 0.040
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.029 U	<0.029 U	<0.04 U	<0.040 U	<0.029 U	<0.029
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.024 U	<0.024 U	<0.05 U	<0.050 U	<0.024 U	<0.024
1,2-Dichlorobenzene	μg/L	600.	60.	<0.025 U	<0.025 U	<0.06 U	<0.060 U	<0.025 U	<0.025
1,2-Dichloroethane	μg/L	5.	0.5	<0.024 U		<0.04 U	<0.040 U	<0.024 U	<0.024
1,2-Dichloropropane	μg/L	5.	0.5	<0.030 U	<0.030 U	<0.06 U	<0.060 U	<0.030 U	<0.030
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.022 U	<0.022 U	<0.06 U	<0.060 U	<0.022 U	<0.022
1,3-Dichlorobenzene	μg/L	600.	120.	<0.021 U		<0.06 U	<0.060 U	<0.021 U	<0.021
2-Chlorotoluene	μg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U	<0.025 U	<0.025
4-Chlorotoluene	μg/L			<0.029 U	<0.029 U	<0.05 U	<0.050 U	<0.029 U	<0.029
Acetone	μg/L	9000.	1800.	<1.3 UZ	<1.3 UZ	<0.9 U	<0.90 U	<1.3 UZ	<1.3 U
Benzene	μg/L	5.	0.5	<0.019 U	<0.019 U	<0.06 U	<0.060 U	<0.019 U	0.092
Bromobenzene	μg/L			<0.030 U		<0.04 U	<0.040 U	<0.030 U	<0.030
Chlorobenzene	μg/L			<0.024 U		<0.04 U	<0.040 U	<0.024 U	<0.024
Chloroethane	μg/L	400.	80.	<0.040 U		<0.06 U	<0.060 U	<0.040 U	<0.040
Chloromethane	μg/L	30.	3.	<0.040 UB					
cis-1,2-Dichloroethene	μg/L	70.	7.	<0.030 U		<0.06 U	0.11 J	<0.030 U	<0.030
Diisopropyl ether	μg/L			<0.021 U	<0.021 U	<0.04 U	<0.040 U	<0.021 U	<0.021
Ethylbenzene	μg/L	700.	140.	<0.019 U	<0.019 U	<0.06 U	<0.060 U	0.091	0.037
Hexachlorobutadiene	μg/L			<0.070 U		<0.07 U	<0.070 U	<0.070 U	<0.070
Isopropylbenzene	μg/L			<0.060 U		<0.05 U	<0.050 U	0.13 J	<0.060
m & p-Xylene	μg/L	2000.	400.	<0.050 U		<0.12 U	<0.12 U	0.11 J	0.067
Methyl tert-butyl ether	μg/L	60.	12.	<0.040 U	<0.040 U	<0.04 U	<0.040 U	<0.040 U	<0.040
Methylene chloride	μg/L	5.	0.5	<0.15 U	<0.15 U	<0.06 U	<0.060 U	<0.15 U	<0.15
Naphthalene	μg/L	100.	10.	<0.040 U	<0.040 U	<0.05 U	<0.050 U	0.066 J	0.055
n-Butylbenzene	μg/L			<0.021 U		<0.05 U	<0.050 U	<0.021 U	<0.021
n-Propylbenzene	μg/L			<0.022 U		<0.05 U	<0.050 U	<0.022 U	<0.022
o-Xylene	μg/L	2000.	400.	<0.027 U		<0.05 U	<0.050 U	0.033 J	0.029
p-Isopropyltoluene	μg/L			<0.030 U	<0.030 U	<0.06 U	<0.060 U	<0.030 U	< 0.030
sec-Butylbenzene	μg/L			<0.024 U		<0.05 U	<0.050 U	<0.024 U	<0.024
Styrene	μg/L	100.	10.	<0.020 U	<0.020 U	<0.05 U	<0.050 U	0.19	0.092
tert-Butylbenzene	μg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U	<0.025 U	<0.025
Tetrachloroethene	μg/L	5.	0.05	<0.030 U		<0.06 U	<0.060 U	<0.030 U	<0.030
Tetrahydrofuran	μg/L	50.	10.	<0.70 U		<0.6 U	0.74 JB,Z	<0.70 U	< 0.70
Toluene	μg/L	800.	160.	<0.027 U		<0.06 U	<0.060 U	0.051 J	0.04
trans-1,2-Dichloroethene	μg/L	100.	20.	<0.040 U		<0.06 U	<0.060 U	<0.040 U	<0.040
Trichloroethene	μg/L	5.	0.5	0.021 J		<0.03 U	0.061 J	<0.020 U	<0.020
Vinyl chloride	μg/L	0.2	0.02	<0.019 U	<0.019 U	<0.016 U	<0.016 U	0.12	0.076

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				11/03/2015	5/10/2016	12/11/2014	5/6/2015	11/04/2015	5/18/2016
	Units	NR140 ES	NR140 PAL	MW-1D	MW-1D	MW-2D	MW-2D	MW-2D	MW-2D
Field Parameters			1712						
Dissolved Oxygen (DO)	mg/L			1.26	0.27	0.17	7.22	0.46	0.00
Oxidation Reduction Potential	millivolts			-133	-74	-100	68	-111	25
рН	pH-units			8.33	7.42	7.39	7.36	7.80	7.03
Specific Conductivity	umhos/cm			531	613	1050	960	782	1020
Temperature	deg-C			15.81	11.39	8.29	11.13	21.16	12.13
Turbidity	ntu			0.	1.6	0.	0.6	2.8	0.
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L			370.	370.	380.	350.	380.	390.
Chloride (as Cl)	mg/L	250.	125.	5.8	5.6	360.	180.	180.	200.
Iron, total (unfiltered)	mg/L			3.14	1.67	2.81	0.243	2.6	0.423
Iron, dissolved (filtered)	mg/L	0.3	0.15	2.88	1.47	2.31	0.0235 J	2.52	0.34
Manganese, total (unfiltered)	μg/L			18.2	13.8	21.9	6.1	28.2	19.3
Manganese, dissolved (filtered)	μg/L	50.	25.	22.8	14.9	23.5	5.4	22.8	15.8
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U
Ethane	μg/L			<0.9 U	<0.40 U	<0.60 U	<0.60 U		<0.40 U
Ethene	μg/L			<1.2 U	<0.50 U	<0.90 U	<0.90 U		<0.50 U
Methane	μg/L		405	1900.	770.	180.	2.6	120.	68.
Sulfate(as SO4)	mg/L	250.	125.	<1 U	0.55 J	48.	44.	40.	45.
Total Organic Carbon VOCs	mg/L			0.46 J	1.2 J	2.1	0.61 J	1.1 J	2.8 Y
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.05 U	<0.050 U	<0.030 U	<0.030 U		<0.050 U
1,1,1-Trichloroethane	μg/L	200.	40.	<0.06 U	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060 U
1,1-Dichloroethane	μg/L	850.	85.	<0.06 U	<0.060 U	0.24	0.18	0.22	0.13 J
1,1-Dichloroethene	μg/L	7.	0.7	<0.07 U	<0.070 U	<0.024 U	<0.024 U		<0.070 U
1,2,3-Trichlorobenzene	μg/L			<0.05 U	<0.050 U	<0.040 U	<0.040 U		<0.050 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.04 U	<0.040 U	<0.029 U	<0.029 U	<0.04 U	<0.040 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.05 U	<0.050 U	<0.024 U	<0.024 U		<0.050 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.06 U	<0.060 U	<0.025 U	<0.025 U		<0.060 U
1,2-Dichloroethane	μg/L	5.	0.5	<0.04 U	<0.040 U	<0.024 U	<0.024 U		<0.040 U
1,2-Dichloropropane	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.030 U	<0.030 U		<0.060 U
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.06 U	<0.060 U	<0.022 U	<0.022 U		<0.060 U
1,3-Dichlorobenzene	μg/L	600.	120.	<0.06 U	<0.060 U	0.12	<0.021 U		<0.060 U
2-Chlorotoluene	μg/L			<0.06 U	<0.060 U	<0.025 U	<0.025 U		<0.060 U
4-Chlorotoluene	μg/L			<0.05 U	<0.050 U	<0.029 U	<0.029 U		<0.050 U
Acetone	μg/L	9000.	1800.	<0.9 U	<0.90 U	<1.3 UZ	<1.3 UZ	<0.9 U	<0.90 U
Benzene	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.019 U	<0.019 U		<0.060 U
Bromobenzene Chlorobenzene	μg/L			<0.04 U <0.04 U	<0.040 U	<0.030 U <0.024 U	<0.030 U <0.024 U		<0.040 U
Chloroethane	μg/L μg/L	400.	80.	<0.04 U	<0.040 U	<0.024 U	<0.024 U		<0.040 U
Chloromethane	μg/L μg/L	30.	3.	<0.05 U	<0.050 U		<0.040 U		0.13 J
cis-1,2-Dichloroethene	μg/L μg/L	70.	7.	<0.05 U	<0.060 U	0.099 3D	0.13	0.44	0.133
Diisopropyl ether	μg/L			<0.04 U	<0.040 U	<0.021 U	<0.021 U		<0.040 U
Ethylbenzene	μg/L μg/L	700.	140.	0.067 J	<0.040 U		<0.021 U		<0.040 U
Hexachlorobutadiene	μg/L			<0.007 U	<0.070 U	<0.070 U	<0.070 U		<0.070 U
Isopropylbenzene	μg/L			0.071 J	0.050 J	<0.060 U	<0.060 U		<0.050 U
m & p-Xylene	μg/L	2000.	400.	<0.12 U	<0.12 U	<0.050 U	<0.050 U		<0.12 U
Methyl tert-butyl ether	μg/L	60.	12.	<0.04 U	<0.040 U	0.087 J	<0.040 U		0.095 J
Methylene chloride	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.15 U	<0.15 U		<0.060 U
Naphthalene	μg/L	100.	10.	0.065 J	<0.050 U		<0.040 U		<0.050 U
n-Butylbenzene	μg/L			<0.05 U	<0.050 U	<0.021 U	<0.021 U		<0.050 U
n-Propylbenzene	μg/L			<0.05 U	<0.050 U	<0.022 U	<0.022 U		<0.050 U
o-Xylene	μg/L	2000.	400.	<0.05 U	<0.050 U	<0.027 U	<0.027 U		<0.050 U
p-Isopropyltoluene	μg/L			<0.06 U	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060 U
sec-Butylbenzene	μg/L			<0.05 U	<0.050 U	<0.024 U	<0.024 U		<0.050 U
Styrene	μg/L	100.	10.	0.19	0.089 J	<0.020 U	<0.020 U		<0.050 U
tert-Butylbenzene	μg/L			<0.06 U	<0.060 U	<0.025 U	<0.025 U		<0.060 U
Tetrachloroethene	μg/L	5.	0.05	<0.06 U	<0.060 U	<0.030 U	<0.030 U		<0.060 U
Tetrahydrofuran	μg/L	50.	10.	<0.6 U	<0.60 U	<0.70 U	<0.70 U		0.98 JB
Toluene	μg/L	800.	160.	<0.06 U	<0.060 U	<0.027 U	<0.027 U		<0.060 U
trans-1,2-Dichloroethene	μg/L	100.	20.	<0.06 U	<0.060 U	0.044 J	<0.040 U		<0.060 U
Trichloroethene	μg/L	5.	0.5	<0.03 U	<0.030 U	0.056 J	0.022 J		<0.030 U
Vinyl chloride	μg/L	0.2	0.02	0.14	<0.016 U	0.12	<0.019 U	0.11	<0.016 U

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				12/10/2014	5/7/2015	11/04/2015	5/18/2016	12/11/2014	5/7/2015
	Units	NR140 ES	NR140 PAL	MW-3D	MW-3D	MW-3D	MW-3D	MW-4S	MW-4S
Field Parameters									
Dissolved Oxygen (DO)	mg/L			0.96	0.64	0.19	0.44	1.37	0.00
Oxidation Reduction Potential	millivolts			-101	-87	-101	54	85	97
рН	pH-units			7.76	6.65	7.62	7.08	7.01	6.58
Specific Conductivity	umhos/cm			951	930	861	970	4180	1730
Temperature	deg-C			8.31	12.42	13.78	11.98	8.54	10.07
Turbidity	ntu			0.	4.5	0.	0.	2.56	0.3
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L			340.	320.	360.	360.	520.	740.
Chloride (as CI)	mg/L	250.	125.	200.	200.	190.	190.	1000.	130.
Iron, total (unfiltered)	mg/L			1.7	1.39	0.712	0.437	0.236	0.142
Iron, dissolved (filtered)	mg/L	0.3	0.15	0.789	1.07	0.805	0.471	0.0474	0.0633
Manganese, total (unfiltered)	μg/L			45.	28.4 Y	40.3	45.3	176.	39.6
Manganese, dissolved (filtered)	μg/L	50.	25.	29.7	26.5	36.4	37.7	193.	39.8
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U
Ethane	μg/L			<0.60 U	<0.60 U	<0.9 U	<0.40 U		<0.60 U
Ethene	μg/L			<0.90 U	<0.90 U	<1.2 U	<0.50 U	<0.90 U	<0.90 U
Methane	μg/L			33.	15.	27.	32.	1.1	0.36 J
Sulfate(as SO4)	mg/L	250.	125.	44.	42.	41.	47.	99.	220.
Total Organic Carbon VOCs	mg/L			0.80 J	1.6	0.63 J	1.8	5.3	9.7
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.030 U	<0.030 U	<0.05 U	<0.050 U	<0.030 U	<0.030 U
1,1,1-Trichloroethane	μg/L	200.	40.	<0.030 U	<0.030 U	<0.06 U	<0.060 U		<0.030 U
1,1-Dichloroethane	μg/L	850.	85.	<0.024 U	<0.024 U	<0.06 U	<0.060 U		<0.024 U
1,1-Dichloroethene	μg/L	7.	0.7	<0.024 U	<0.024 U	<0.07 U	<0.070 U		<0.024 U
1,2,3-Trichlorobenzene	μg/L			<0.040 U	<0.040 U	<0.05 U	<0.050 U		<0.040 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.029 U	<0.029 U	<0.04 U	<0.040 U	<0.029 U	<0.029 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.024 U	<0.024 U	<0.05 U	<0.050 U		<0.024 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.025 U	<0.025 U	<0.06 U	<0.060 U	<0.025 U	<0.025 U
1,2-Dichloroethane	μg/L	5.	0.5	<0.024 U	<0.024 U	<0.04 U	<0.040 U	<0.024 U	<0.024 U
1,2-Dichloropropane	μg/L	5.	0.5	<0.030 U	<0.030 U	<0.06 U	<0.060 U		<0.030 U
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.022 U	<0.022 U	<0.06 U	<0.060 U	<0.022 U	<0.022 U
1,3-Dichlorobenzene	μg/L	600.	120.	<0.021 U	<0.021 U	<0.06 U	<0.060 U	0.094	<0.021 U
2-Chlorotoluene	μg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U		<0.025 U
4-Chlorotoluene	μg/L			<0.029 U	<0.029 U	<0.05 U	<0.050 U	<0.029 U	<0.029 U
Acetone	μg/L	9000.	1800.	<1.3 UZ	<1.3 UZ	<0.9 U	<0.90 U	<1.3 UZ	<1.3 UZ
Benzene	μg/L	5.	0.5	<0.019 U	<0.019 U	<0.06 U	<0.060 U	<0.019 U	<0.019 U
Bromobenzene	μg/L			<0.030 U	<0.030 U	<0.04 U	<0.040 U	<0.030 U	<0.030 U
Chlorobenzene	μg/L			<0.024 U	<0.024 U	<0.04 U	<0.040 U	<0.024 U	<0.024 U
Chloroethane	μg/L	400.	80.	<0.040 U	<0.040 U	<0.06 U	<0.060 U	<0.040 U	<0.040 U
Chloromethane	μg/L	30.	3.	0.055 JB	<0.040 U	0.072 JB	0.14 J	0.089 JB	<0.040 U
cis-1,2-Dichloroethene	μg/L	70.	7.	0.13	0.19	0.18 J	0.35	<0.030 U	<0.030 U
Diisopropyl ether	μg/L			<0.021 U	<0.021 U	<0.04 U	<0.040 U		<0.021 U
Ethylbenzene	μg/L	700.	140.	<0.019 U	<0.019 U	<0.06 U	<0.060 U		<0.019 U
Hexachlorobutadiene	μg/L			<0.070 U	<0.070 U	<0.07 U	<0.070 U		<0.070 U
Isopropylbenzene	μg/L			<0.060 U	<0.060 U	<0.05 U	<0.050 U		<0.060 U
m & p-Xylene	μg/L	2000.	400.	<0.050 U	<0.050 U	<0.12 U	<0.12 U		<0.050 U
Methyl tert-butyl ether	μg/L	60.	12.	0.27	0.21	0.35	0.38	<0.040 U	<0.040 U
Methylene chloride	μg/L	5.	0.5	<0.15 U	<0.15 U	<0.06 U	<0.060 U		<0.15 U
Naphthalene	μg/L	100.	10.	<0.040 U	<0.040 U	<0.05 U	<0.050 U		<0.040 U
n-Butylbenzene	μg/L			<0.021 U	<0.021 U	<0.05 U	<0.050 U	<0.021 U	<0.021 U
n-Propylbenzene	μg/L			<0.022 U	<0.022 U	<0.05 U	<0.050 U	<0.022 U	<0.022 U
o-Xylene	μg/L	2000.	400.	<0.027 U	<0.027 U	<0.05 U	<0.050 U	<0.027 U	<0.027 U
p-Isopropyltoluene	μg/L			<0.030 U	<0.030 U	<0.06 U	<0.060 U	<0.030 U	<0.030 U
sec-Butylbenzene	μg/L			<0.024 U	<0.024 U	<0.05 U	<0.050 U		<0.024 U
Styrene	μg/L	100.	10.	<0.020 U	<0.020 U	<0.05 U	<0.050 U	<0.020 U	<0.020 U
tert-Butylbenzene	μg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U		<0.025 U
Tetrachloroethene	μg/L	5.	0.05	<0.030 U	<0.030 U	<0.06 U	<0.060 U		<0.030 U
Tetrahydrofuran	μg/L	50.	10.	<0.70 U	<0.70 U	<0.6 U	<0.60 U	<0.70 U	<0.70 U
Toluene	μg/L	800.	160.	<0.027 U	<0.027 U	<0.06 U	<0.060 U	<0.027 U	<0.027 U
trans-1,2-Dichloroethene	μg/L	100.	20.	<0.040 U	<0.040 U	<0.06 U	<0.060 U		<0.040 U
Trichloroethene	μg/L	5.	0.5	<0.020 U	<0.020 U	<0.03 U	<0.030 U		<0.020 U
Vinyl chloride	μg/L	0.2	0.02	<0.019 U	<0.019 U	<0.016 U	0.024 J	<0.019 U	<0.019 U

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				11/04/2015	5/10/2016	12/10/2014	5/5/2015	11/03/2015	5/11/2016
	Units	NR140 ES	NR140 PAL	MW-4S	MW-4S	MW-5D	MW-5D	MW-5D	MW-5D
Field Parameters									
Dissolved Oxygen (DO)	mg/L			0.46	0.00	3.32	0.00	0.59	0.0
Oxidation Reduction Potential	millivolts			79	97	-78	-38	-65	-40
pH	pH-units			7.13	6.90	7.60	7.32	7.45	7.13
Specific Conductivity	umhos/cm			1920	1580	999	1240	895	109
Temperature	deg-C			18.02	9.41	7.83	9.22	18.15	13.7
Turbidity	ntu			0.	32.6	0.	23.7	9.4	25.1
Natural Attenuation Parameters Alkalinity, total (as CaCO ₃)	mg/L			580.	740.	390.	370.	400.	400.
Chloride (as Cl)	mg/L	250.	125.	400.	42.	180.	160.	140.	150.
Iron, total (unfiltered)	mg/L			0.361	0.556	1.61	1.53	1.6	2.05
Iron, dissolved (filtered)	mg/L	0.3	0.15	0.0178 J	0.501	1.51	0.989	1.69	0.865
Manganese, total (unfiltered)	μg/L			73.5	97.2	68.7	137.	61.9	116.
Manganese, dissolved (filtered)	μg/L	50.	25.	58.3	111.	67.7	68.	65.7	116.
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 l
Ethane	μg/L			<0.9 U	<0.40 U	<0.60 U	<0.60 U	<0.9 U	<0.40 l
Ethene	μg/L			<1.2 U	<0.50 U	<0.90 U	<0.90 U	<1.2 U	0.55 、
Methane	μg/L			0.53 J	20.	41.	26.	44.	44.
Sulfate(as SO4)	mg/L	250.	125.	97.	100.	57.	51.	50.	52.
Total Organic Carbon VOCs	mg/L			3.6	10.	0.95 J	1.3 J	0.65 J	2.6
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.05 U	<0.050 U	<0.15 U	<0.15 U	<0.25 U	<0.25 L
1,1,1-Trichloroethane	μg/L	200.	40.	<0.06 U	<0.060 U	<0.15 U	<0.15 U	<0.3 U	<0.30 L
1,1-Dichloroethane	μg/L	850.	85.	<0.06 U	<0.060 U	6.1	6.8	4.4	7.6
1,1-Dichloroethene	μg/L	7.	0.7	<0.07 U		0.51	0.69	0.35 J	0.74 、
1,2,3-Trichlorobenzene	μg/L			<0.05 U	<0.050 U	<0.20 U	<0.20 U	<0.25 U	<0.25 L
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.04 U	<0.040 U	<0.15 U	<0.15 U	<0.2 U	<0.20 L
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.05 U			<0.12 U	<0.25 U	<0.25 L
1,2-Dichlorobenzene 1,2-Dichloroethane	μg/L	600.	60. 0.5	<0.06 U <0.04 U	<0.060 U <0.040 U	<0.13 U 0.91	<0.13 U 0.56	<0.3 U 1.3	<0.30 L 0.53 k
1,2-Dichloropropane	μg/L μg/L	5. 5.	0.5	<0.04 U			<0.15 U	<0.3 U	<0.30 L
1,3,5-Trimethylbenzene	μg/L μg/L	480.	96.	<0.06 U	<0.060 U	<0.13 U	<0.13 U	<0.3 U	<0.30 t
1,3-Dichlorobenzene	μg/L	600.	120.	<0.06 U	<0.060 U	<0.11 U	<0.11 U	<0.3 U	<0.30 L
2-Chlorotoluene	μg/L			<0.06 U	<0.060 U	<0.13 U	<0.13 U	<0.3 U	<0.30 L
4-Chlorotoluene	μg/L			<0.05 U	<0.050 U	<0.15 U	<0.15 U	<0.25 U	<0.25 L
Acetone	μg/L	9000.	1800.	<0.9 U	<0.90 U	<6.5 UZ	<6.5 UZ	<4.5 U	98 E
Benzene	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.095 U	<0.095 U	<0.3 U	<0.30 L
Bromobenzene	μg/L			<0.04 U	<0.040 U	<0.15 U	<0.15 U	<0.2 U	<0.20 L
Chlorobenzene	μg/L			<0.04 U	<0.040 U	<0.12 U	<0.12 U	<0.2 U	<0.20 L
Chloroethane	μg/L	400.	80.	<0.06 U			<0.20 U	<0.3 U	<0.30 L
Chloromethane	μg/L	30.	3.	0.058 J					<0.25 L
cis-1,2-Dichloroethene	μg/L	70.	7.	<0.06 U	<0.060 U	72.	73.	51.	76.
Diisopropyl ether	μg/L			<0.04 U	<0.040 U	<0.11 U	<0.11 U	<0.2 U	<0.20 L
Ethylbenzene	μg/L	700.	140.	<0.06 U		<0.095 U	<0.095 U	<0.3 U	<0.30 L
Hexachlorobutadiene Isopropylbenzene	μg/L μg/L			<0.07 U <0.05 U	<0.070 U <0.050 U	<0.35 U <0.30 U	<0.35 U <0.30 U	<0.35 U <0.25 U	<0.35 L <0.25 L
m & p-Xylene	μg/L μg/L	2000.	400.	<0.03 U		<0.30 U	<0.30 U	<0.25 U	<0.25 C
Methyl tert-butyl ether	μg/L μg/L	60.	12.	<0.12 U	<0.12 U	<0.20 U	<0.20 U	0.0 U	0.27
Methylene chloride	μg/L	5.	0.5	<0.04 U	<0.060 U	4.2	<0.20 U	<0.3 U	1.5
Naphthalene	μg/L μg/L	100.	10.	<0.05 U	<0.050 U	<0.20 U	<0.70 U	<0.25 U	<0.25 L
n-Butylbenzene	μg/L			<0.05 U	<0.050 U	<0.11 U	<0.11 U	<0.25 U	<0.25 L
n-Propylbenzene	μg/L			<0.05 U	<0.050 U	<0.11 U	<0.11 U	<0.25 U	<0.25 L
o-Xylene	μg/L	2000.	400.	<0.05 U	<0.050 U	<0.14 U	<0.14 U	<0.25 U	<0.25 L
p-Isopropyltoluene	μg/L			<0.06 U	<0.060 U	<0.15 U	<0.15 U	<0.3 U	<0.30 L
sec-Butylbenzene	μg/L			<0.05 U	<0.050 U	<0.12 U	<0.12 U	<0.25 U	<0.25 l
Styrene	μg/L	100.	10.	<0.05 U	<0.050 U	<0.10 U	<0.10 U	<0.25 U	<0.25 L
tert-Butylbenzene	μg/L			<0.06 U	<0.060 U		<0.13 U	<0.3 U	<0.30 l
Tetrachloroethene	μg/L	5.	0.05	<0.06 U	<0.060 U	<0.15 U	<0.15 U	<0.3 U	<0.30 l
Tetrahydrofuran	μg/L	50.	10.	<0.6 U	0.66 JB,Z	<3.5 U	<3.5 U	<3 U	<3.0 l
Toluene	μg/L	800.	160.	<0.06 U	<0.060 U	<0.14 U	<0.14 U	<0.3 U	<0.30 L
trans-1,2-Dichloroethene	μg/L	100.	20.	<0.06 U	<0.060 U	7.	9.	5.1	9.4
Trichloroethene	μg/L	5.	0.5	<0.03 U	<0.030 U		50.	15.	54.
Vinyl chloride	μg/L	0.2	0.02	<0.016 U	<0.016 U	3.2	4.3	2.3	4.7

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				12/10/2014	5/5/2015	11/03/2015	5/11/2016	12/11/2014	5/6/2015
	Units	NR140 ES	NR140 PAL	MW-9S	MW-9S	MW-9S	MW-9S	MW-12S	MW-12S
Field Parameters		_							
Dissolved Oxygen (DO)	mg/L			0.79	0.00	0.43	0.00	8.69	0.00
Oxidation Reduction Potential	millivolts			14	-48	-37	-35	-50	16
рН	pH-units			7.75	7.20	7.41	7.10	7.80	7.32
Specific Conductivity	umhos/cm			1230	1870	1680	1490	1070	1050
Temperature	deg-C			10.08	8.63	17.35	15.13	6.75	7.11
Turbidity	ntu			0.	12.4	0.	13.6	42.7	18.2
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L			330.	300.	340.	350.	370.	350.
Chloride (as Cl)	mg/L	250.	125.	380.	360.	340.	310.	220.	210.
Iron, total (unfiltered)	mg/L			0.635	2.	0.495	2.94	0.49	0.266
Iron, dissolved (filtered)	mg/L	0.3	0.15	0.221	1.	0.59	0.877	0.077	<0.010 U
Manganese, total (unfiltered)	μg/L			57.1	80.5	73.7	73.5	127.	132.
Manganese, dissolved (filtered)	μg/L	50.	25.	79.1	88.4	82.2	70.6	115.	117.
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U
Ethane	μg/L			<0.60 U	<0.60 U	<0.9 U	<0.40 U	<0.60 U	<0.60 U
Ethene	μg/L			<0.90 U	<0.90 U	<1.2 U	<0.50 U	<0.90 U	<0.90 U
Methane	μg/L			4.3	5.5	6.3	21.	11.	9.4
Sulfate(as SO4)	mg/L	250.	125.	64.	57.	56.	59.	55.	54.
Total Organic Carbon	mg/L			1.4 J	1.6	1.2 J	2.8	2.5	1.8
VOCs	ua/l	70	7	40 000 LI	<0.030 U	-0.05.11	-0.050.11	-0.4511	-0 4F II
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.030 U		<0.05 U	<0.050 U	<0.15 U	<0.15 U
1,1,1-Trichloroethane	μg/L	200.	40.	<0.030 U	<0.030 U	<0.06 U	<0.060 U	51.	41.
1,1-Dichloroethane	μg/L	850.	85.	0.19	0.17	0.2	0.16 J	14.	18.
1,1-Dichloroethene	μg/L	7.	0.7	<0.024 U	<0.024 U	<0.07 U	<0.070 U		7.2
1,2,3-Trichlorobenzene	μg/L			<0.040 U	<0.040 U	<0.05 U	<0.050 U		<0.20 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.029 U	<0.029 U	<0.04 U	<0.040 U	<0.15 U	<0.15 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.024 U	<0.024 U	<0.05 U	<0.050 U		<0.12 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.025 U	<0.025 U	<0.06 U	<0.060 U		<0.13 U
1,2-Dichloroethane	μg/L	5.	0.5	<0.024 U	<0.024 U	<0.04 U	<0.040 U	<0.12 U	<0.12 U
1,2-Dichloropropane	μg/L	5.	0.5	<0.030 U	<0.030 U	<0.06 U	<0.060 U		<0.15 U
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.022 U	<0.022 U	<0.06 U	<0.060 U		<0.11 U
1,3-Dichlorobenzene	μg/L	600.	120.	<0.021 U	<0.021 U	<0.06 U	<0.060 U	<0.11 U	<0.11 U
2-Chlorotoluene	μg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U		<0.13 U
4-Chlorotoluene	μg/L			<0.029 U	<0.029 U	<0.05 U	<0.050 U		<0.15 U
Acetone	μg/L	9000.	1800.	<1.3 UZ	<1.3 UZ	<0.9 U	<0.90 U	<6.5 UZ	<6.5 UZ
Benzene	μg/L	5.	0.5	<0.019 U	<0.019 U	<0.06 U	<0.060 U		<0.095 U
Bromobenzene	μg/L			<0.030 U	<0.030 U	<0.04 U	<0.040 U		<0.15 U
Chlorobenzene	μg/L			<0.024 U	<0.024 U	<0.04 U	<0.040 U	<0.12 U	<0.12 U
Chloroethane	μg/L	400.	80.	<0.040 U 0.1 JB	<0.040 U	<0.06 U	<0.060 U		<0.20 U
Chloromethane	μg/L	30.	3.		<0.040 U		<0.050 U		<0.20 U
cis-1,2-Dichloroethene	μg/L	70.	7.	<0.030 U	<0.030 U	<0.06 U	<0.060 U		16.
Diisopropyl ether	μg/L			<0.021 U	<0.021 U	<0.04 U	<0.040 U		<0.11 U
Ethylbenzene	μg/L	700.	140.	<0.019 U	<0.019 U	<0.06 U	<0.060 U		<0.095 U
Hexachlorobutadiene	μg/L			<0.070 U	<0.070 U	<0.07 U	<0.070 U	<0.35 U	<0.35 U
Isopropylbenzene	μg/L			<0.060 U	<0.060 U	<0.05 U	<0.050 U		<0.30 U
m & p-Xylene	μg/L	2000.	400.	<0.050 U	<0.050 U	<0.12 U	<0.12 U		<0.25 U
Methyl tert-butyl ether	μg/L	60.	12.	<0.040 U	<0.040 U	<0.04 U	<0.040 U	<0.20 U	<0.20 U
Methylene chloride Naphthalene	μg/L μg/L	5. 100.	0.5 10.	<0.15 U <0.040 U	<0.15 U <0.040 U	<0.06 U <0.05 U	<0.060 U <0.050 U	1.3 J <0.20 U	<0.75 U <0.20 U
n-Butylbenzene	μg/L			<0.021 U	<0.021 U	<0.05 U	<0.050 U	<0.20 U	<0.20 U
n-Propylbenzene	μg/L μg/L			<0.021 U	<0.021 U	<0.05 U	<0.050 U	<0.11 U	<0.11 U
o-Xylene	μg/L μg/L	2000.	400.	<0.022 U	<0.022 U	<0.05 U	<0.050 U	<0.11 U	<0.11 U
p-Isopropyltoluene	μg/L			<0.030 U	<0.030 U	<0.06 U	<0.060 U	<0.15 U	<0.15 U
sec-Butylbenzene	μg/L			<0.024 U	<0.024 U	<0.05 U	<0.050 U		<0.12 U
Styrene	μg/L	100.	10.	<0.020 U	<0.020 U	<0.05 U	<0.050 U		<0.10 U
tert-Butylbenzene	μg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U		<0.13 U
Tetrachloroethene	μg/L	5.	0.05	<0.030 U	<0.030 U	<0.06 U	<0.060 U		<0.15 U
Tetrahydrofuran	μg/L	50.	10.	<0.70 UY	<0.70 U	<0.6 U	<0.60 U	<3.5 U	<3.5 U
Toluene	μg/L	800.	160.	<0.027 U	<0.027 U	<0.06 U	<0.060 U	<0.14 U	<0.14 U
trans-1,2-Dichloroethene	μg/L	100.	20.	<0.040 U	<0.040 U	<0.06 U	<0.060 U	9.5	10.
Trichloroethene	μg/L	5.	0.5	0.15	0.18	0.24	0.18	39.	72.

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

			e Sampled	11/05/2015	5/11/2016	12/11/2014	5/6/2015	11/05/2015	5/11/2016
	Units	NR140 ES	NR140 PAL	MW-12S	MW-12S	MW-12D	MW-12D	MW-12D	MW-12D
Field Parameters		LO	IAL						
Dissolved Oxygen (DO)	mg/L			1.12	0.00	6.46	0.00	4.79	0.00
Oxidation Reduction Potential	millivolts			-21	30	-82	-70	-88	49
рН	pH-units			6.99	7.14	7.53	7.31	7.00	7.26
Specific Conductivity	umhos/cm			920	1230	1200	1060	974	1190
Temperature	deg-C			14.00	12.03	7.90	8.68	15.02	16.52
Turbidity	ntu			36.3	12.	0.	1.4	2.2	0.3
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L			380.	380.	390.	370.	410.	400.
Chloride (as CI)	mg/L	250.	125.	180.	220.	260 M	210.	200.	220.
Iron, total (unfiltered)	mg/L			1.19	0.172	1.26	0.967	1.35	0.906
Iron, dissolved (filtered)	mg/L	0.3	0.15	0.109	<0.010 U	0.969	0.843	1.13	0.873
Manganese, total (unfiltered)	μg/L			165.	117.	29.7	31.9	39.	29.5
Manganese, dissolved (filtered)	μg/L	50.	25.	132.	104.	33.1	29.9	32.7	29.1
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.46 U	<0.23 U	<0.23 U
Ethane	μg/L			<0.9 U	<0.40 U	<0.60 U	<1.2 U	<0.9 U	<0.40 U
Ethene	μg/L			<1.2 U	<0.50 U	<0.90 U	<1.8 U	<1.2 U	<0.50 U
Methane	μg/L			7.5	18.	36.	27.	27.	32.
Sulfate(as SO4)	mg/L	250.	125.	51.	59.	67.	60.	59.	58.
Total Organic Carbon	mg/L			0.89 J	3.2	3.1	2.	1.7	3.
<u>VOCs</u>									
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.25 U	<0.25 U	<0.030 U	<0.030 U	<0.05 U	<0.050 U
1,1,1-Trichloroethane	μg/L	200.	40.	36.	29.	0.76	0.53	0.57	0.33
1,1-Dichloroethane	μg/L	850.	85.	6.6	12.	10.	7.4	9.2	5.8
1,1-Dichloroethene	μg/L	7.	0.7	3.	4.4	0.46	0.28	0.41	0.18 J
1,2,3-Trichlorobenzene	μg/L			<0.25 U	<0.25 U	<0.040 U	<0.040 U		<0.050 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.2 U	<0.20 U	<0.029 U	<0.029 U		<0.040 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.25 U	<0.25 U	<0.024 U	<0.024 U	<0.05 U	<0.050 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.3 U	<0.30 U	<0.025 U	<0.025 U		<0.060 U
1,2-Dichloroethane	μg/L	5.	0.5	<0.2 U	<0.20 U	0.061 J	0.052 J	0.062 J	<0.040 U
1,2-Dichloropropane	μg/L	5.	0.5	<0.3 U	<0.30 U	<0.030 U	<0.030 U	<0.06 U	<0.060 U
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.3 U	<0.30 U	<0.022 U	<0.022 U		<0.060 U
1,3-Dichlorobenzene	μg/L	600.	120.	<0.3 U	<0.30 U	0.084	0.038 J	<0.06 U	<0.060 U
2-Chlorotoluene	μg/L			<0.3 U	<0.30 U	<0.025 U	<0.025 U	<0.06 U	<0.060 U
4-Chlorotoluene	μg/L			<0.25 U	<0.25 U	<0.029 U	<0.029 U		<0.050 U
Acetone	μg/L	9000.	1800.	<4.5 U	100 B	<1.3 UZ	<1.3 UZ	<0.9 U	<0.90 U
Benzene	μg/L	5.	0.5	<0.3 U	<0.30 U	<0.019 U	<0.019 U	<0.06 U	<0.060 U
Bromobenzene	μg/L			<0.2 U	<0.20 U	<0.030 U	<0.030 U		<0.040 U
Chlorobenzene	μg/L			<0.2 U	<0.20 U	<0.024 U	<0.024 U		<0.040 U
Chloroethane	μg/L	400.	80.	<0.3 U	<0.30 U	0.073 J	0.12 J	0.35	0.53
Chloromethane	μg/L	30.	3.	<0.25 U					
cis-1,2-Dichloroethene	μg/L	70.	7.	24.	22.	6.9	5.7	6.7	5.4
Diisopropyl ether	μg/L			<0.2 U	<0.20 U	<0.021 U	<0.021 U	<0.04 U	<0.040 U
Ethylbenzene	μg/L	700.	140.	<0.3 U	<0.30 U	<0.019 U	<0.019 U		<0.060 U
Hexachlorobutadiene	μg/L			<0.35 U	<0.35 U	<0.070 U	<0.070 U		<0.070 U
Isopropylbenzene	μg/L			<0.25 U	<0.25 U	<0.060 U	<0.060 U	<0.05 U	<0.050 U
m & p-Xylene	μg/L	2000.	400.	<0.6 U	<0.60 U	<0.050 U	<0.050 U		<0.12 U
Methyl tert-butyl ether	μg/L	60.	12.	<0.2 U	<0.20 U	0.41	0.48	0.47	0.59
Methylene chloride	μg/L	5.	0.5	<0.3 U	1.4	<0.15 U	<0.15 U	<0.06 U	<0.060 U
Naphthalene	μg/L	100.	10.	<0.25 U	<0.25 U	<0.040 U	<0.040 U		<0.050 U
n-Butylbenzene	μg/L			<0.25 U	<0.25 U	<0.021 U	<0.021 U		<0.050 U
n-Propylbenzene	μg/L			<0.25 U	<0.25 U	<0.022 U	<0.022 U	<0.05 U	<0.050 U
o-Xylene	μg/L	2000.	400.	<0.25 U	<0.25 U	<0.027 U	<0.027 U		<0.050 U
p-Isopropyltoluene	μg/L			<0.3 U	<0.30 U	<0.030 U	<0.030 U	<0.06 U	<0.060 U
sec-Butylbenzene	μg/L			<0.25 U	<0.25 U	<0.024 U	<0.024 U	<0.05 U	<0.050 U
Styrene	μg/L	100.	10.	<0.25 U	<0.25 U	<0.020 U	<0.020 U		<0.050 U
tert-Butylbenzene	μg/L			<0.3 U	<0.30 U	<0.025 U	<0.025 U	<0.06 U	<0.060 U
Tetrachloroethene	μg/L	5.	0.05	<0.3 U	<0.30 U	<0.030 U	<0.030 U	<0.06 U	<0.060 U
Tetrahydrofuran	μg/L	50.	10.	<3.0 U	<3.0 U	<0.70 U	<0.70 U		0.68 JB,Z
Toluene	μg/L	800.	160.	<0.3 U	<0.30 U	<0.027 U	<0.027 U		<0.060 U
trans-1,2-Dichloroethene	μg/L	100.	20.	7.1	6.8	0.82	0.76	0.76	0.5
Trichloroethene	μg/L	5.	0.5	54.	48.	0.11	0.12	0.11	0.1
Vinyl chloride	μg/L	0.2	0.02	1.9	0.79	0.69	0.55	0.91	0.8

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				12/11/2014	5/6/2015	11/05/2015	5/11/2016	12/11/2014	5/6/2015
	Units	NR140 ES	NR140 PAL	MW-12B	MW-12B	MW-12B	MW-12B	MW-13S	MW-13S
<u>Field Parameters</u>									
Dissolved Oxygen (DO)	mg/L			0.40	2.03	0.22	0.93	10.09	5.8
Oxidation Reduction Potential	millivolts			-153	51	-179	163	4	9
рН	pH-units			8.58	8.54	7.79	8.39	7.61	7.5
Specific Conductivity	umhos/cm			804	712	650	910	865	59
Temperature	deg-C			7.55	10.02	16.61	12.46	5.48	10.3
Turbidity	ntu			0.	0.	0.	0.	113.	11.3
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L		405	280.	270.	320.	310.	310.	260.
Chloride (as Cl)	mg/L	250.	125.	150.	130.	130.	140.	170.	70.
Iron, total (unfiltered)	mg/L		 0.15	0.229	0.042 J	0.355	<0.020 U	2.74	0.688
Iron, dissolved (filtered)	mg/L	0.3	0.15	0.149	<0.010 U	0.32	<0.010 U	0.0768	<0.010 l
Manganese, total (unfiltered)	μg/L	 50.	 25	3.5 J	1.9 J <1.6 U	17.7 12.9	1.4 J	45.3 13.9	7.8 7.8
Manganese, dissolved (filtered)	μg/L		25.	6.5		<0.23 U	<1.6 U		
Acetylene	μg/L μg/L			<0.23 U <0.60 U	<0.23 U <0.60 U	<0.23 U	<0.23 U <0.40 U	<0.23 U <0.60 U	<0.23 l <0.60 l
Ethane Ethene				<0.80 U	<0.80 U	<0.9 U	<0.40 U	<0.80 U	<0.80 t
Methane	μg/L μg/L			8.4	0.90 U	15.	3.	<0.90 U	<0.90 t
Sulfate(as SO4)	μg/L mg/L	250.	125.	31.	29.	29.	30.	18.	13.
Total Organic Carbon	mg/L			0.86 J	0.47 J	<0.4 U	0.75 J	6.7	2.3
VOCs	g, L			0.00 0	0.47 0	٧٥.٠٠ ٥	0.700	5.7	2.0
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.030 U	<0.030 U	<0.05 U	<0.050 U	<0.030 U	<0.030 L
1,1,1-Trichloroethane	μg/L	200.	40.	<0.030 U	<0.030 U	<0.06 U	<0.060 U	0.063 J	0.033
1,1-Dichloroethane	μg/L	850.	85.	<0.024 U	<0.024 U	<0.06 U	<0.060 U	0.057 J	0.056
1,1-Dichloroethene	μg/L	7.	0.7	<0.024 U		<0.07 U	<0.070 U	<0.024 U	<0.024 L
1,2,3-Trichlorobenzene	μg/L			<0.040 U	<0.040 U	<0.05 U	<0.050 U	<0.040 U	<0.040 L
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.029 U	<0.029 U	<0.04 U	<0.040 U	<0.029 U	<0.029 L
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.024 U		<0.05 U	<0.050 U	<0.024 U	<0.024 L
1,2-Dichlorobenzene	μg/L	600.	60.	<0.025 U	<0.025 U	<0.06 U	<0.060 U	<0.025 U	<0.025 L
1,2-Dichloroethane	μg/L	5.	0.5	<0.024 U	<0.024 U	<0.04 U	<0.040 U	<0.024 U	<0.024 L
1,2-Dichloropropane	μg/L	5.	0.5	<0.030 U	<0.030 U	<0.06 U	<0.060 U	<0.030 U	<0.030 L
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.022 U	<0.022 U	<0.06 U	<0.060 U	<0.022 U	<0.022 L
1,3-Dichlorobenzene	μg/L	600.	120.	0.12	0.038 J	<0.06 U	<0.060 U	0.14	0.03
2-Chlorotoluene	μg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U	<0.025 U	<0.025 L
4-Chlorotoluene	μg/L			<0.029 U	<0.029 U	<0.05 U	<0.050 U	<0.029 U	<0.029 \
Acetone	μg/L	9000.	1800.	<1.3 UZ	<1.3 UZ	<0.9 U	<0.90 U	<1.3 UZ	<1.3 UZ
Benzene	μg/L	5.	0.5	<0.019 U	<0.019 U	<0.06 U	<0.060 U	<0.019 U	<0.019 L
Bromobenzene	μg/L			<0.030 U	<0.030 U	<0.04 U	<0.040 U	<0.030 U	<0.030 L
Chlorobenzene	μg/L			<0.024 U	<0.024 U	<0.04 U	<0.040 U	<0.024 U	<0.024 L
Chloroethane	μg/L	400.	80.	<0.040 U	<0.040 U	<0.06 U	<0.060 U	<0.040 U	<0.040 L
Chloromethane	μg/L	30.	3.	0.1 JB			<0.050 U		
cis-1,2-Dichloroethene	μg/L	70.	7.	<0.030 U	<0.030 U	<0.06 U	<0.060 U	0.045 J	0.13
Diisopropyl ether	μg/L			<0.021 U	<0.021 U	<0.04 U	<0.040 U	<0.021 U	<0.021 L
Ethylbenzene	μg/L	700.	140.	<0.019 U		<0.06 U	<0.060 U	<0.019 U	<0.019 L
Hexachlorobutadiene	μg/L			<0.070 U	<0.070 U	<0.07 U	<0.070 U	<0.070 U	<0.070 L
Isopropylbenzene	μg/L			<0.060 U	<0.060 U		<0.050 U	<0.060 U	<0.060 L
m & p-Xylene	μg/L	2000.	400.	<0.050 U	<0.050 U	<0.12 U	<0.12 U	<0.050 U	<0.050 L
Methylene chloride	μg/L	60.	12.	<0.040 U	<0.040 U	<0.04 U	<0.040 U	<0.040 U	<0.040 L
Methylene chloride	μg/L	5.	0.5	<0.15 U	<0.15 U	<0.06 U	<0.060 U	<0.15 U	<0.15 L
Naphthalene n-Butylbenzene	μg/L ug/l	100.	10.	<0.040 U <0.021 U	<0.040 U <0.021 U	<0.05 U <0.05 U	<0.050 U <0.050 U	<0.040 U <0.021 U	<0.040 L <0.021 L
,	μg/L μg/L			<0.021 U <0.022 U	<0.021 U <0.022 U	<0.05 U	<0.050 U	<0.021 U	<0.021 C
n-Propylbenzene o-Xylene	μg/L μg/L	2000.	400.	<0.022 U	<0.022 U	<0.05 U	<0.050 U	<0.022 U	<0.022 t
p-Isopropyltoluene	μg/L μg/L		- 00.	<0.027 U	<0.027 U	<0.05 U	<0.050 U	<0.027 U	<0.027 C
sec-Butylbenzene	μg/L μg/L			<0.030 U	<0.030 U	<0.05 U	<0.050 U	<0.030 U	<0.030 t
Styrene	μg/L	100.	10.	<0.024 U	<0.024 U	<0.05 U	<0.050 U	<0.024 U	<0.024 C
tert-Butylbenzene	μg/L			<0.025 U	<0.025 U		<0.060 U	<0.025 U	<0.025 L
Tetrachloroethene	μg/L	5.	0.05	0.065 J	<0.023 U	<0.06 U	<0.060 U	0.035 J	0.032
Tetrahydrofuran	μg/L	50.	10.	<0.70 U	<0.70 U	<0.00 U	<0.60 U	<0.70 U	<0.70 l
Toluene	μg/L μg/L	800.	160.	<0.027 U	<0.027 U		<0.060 U	<0.027 U	<0.027 L
trans-1,2-Dichloroethene	μg/L	100.	20.	<0.040 U	<0.040 U	<0.06 U	<0.060 U	<0.040 U	<0.027 C
Trichloroethene	μg/L μg/L	5.	0.5	0.022 J	<0.020 U	<0.03 U	<0.030 U	0.11	0.037
	ı r: ɔ' =	٠.	5.5	J.U U	-5.525 0	-3.000	-5.555 0	J. 1 1	3.557

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				11/05/2015	5/13/2016	12/11/2014	5/6/2015	11/05/2015	5/13/2016
	Units	NR140 ES	NR140 PAL	MW-13S	MW-13S	MW-13D	MW-13D	MW-13D	MW-13D
<u>Field Parameters</u>									
Dissolved Oxygen (DO)	mg/L			1.87	3.78	2.21	0.00	0.20	0.0
Oxidation Reduction Potential	millivolts			22	130	-72	-62	-74	-50
pH	pH-units			7.08	7.35	7.57	7.42	7.02	7.20
Specific Conductivity	umhos/cm			706	832	1070	967	908	1140
Temperature	deg-C			14.19 9.	12.29 30.2	7.53 0.	11.59	14.52	11.4 116.
Turbidity Natural Attenuation Parameters	ntu			9.	30.2	0.	0.1	2.4	110.
Alkalinity, total (as CaCO ₃)	mg/L			320.	310.	350.	340.	380.	360.
Chloride (as Cl)	mg/L	250.	125.	140.	120.	230.	190.	180.	190.
Iron, total (unfiltered)	mg/L			0.734	2.	1.79	0.772	1.21	28.5
Iron, dissolved (filtered)	mg/L	0.3	0.15	0.111	0.0982	0.898	0.67	0.801	0.814
Manganese, total (unfiltered)	μg/L			24.8	28.3	31.7	31.8	38.6	3.62
Manganese, dissolved (filtered)	μg/L	50.	25.	13.4	10.	31.9	27.	34.3	29.7
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 L
Ethane	μg/L			<0.9 U	<0.40 U	<0.60 U	<0.60 U	<0.9 U	
Ethene	μg/L			<1.2 U	<0.50 U	<0.90 U	<0.90 U	<1.2 U	<0.50 L
Methane	μg/L			<0.4 U	<0.40 U	21.	18.	20.	28.
Sulfate(as SO4)	mg/L	250.	125.	16.	17.	64.	52.	50.	49.
Total Organic Carbon VOCs	mg/L			<0.4 U	2.9	9.5	2.	0.45 J	1.8
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.05 U	<0.050 U	<0.030 U	<0.030 U	<0.05 U	<0.050 L
1,1,1-Trichloroethane	μg/L	200.	40.	0.1 J	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060 L
1,1-Dichloroethane	μg/L	850.	85.	<0.06 U	<0.060 U	<0.024 U	<0.024 U	<0.06 U	<0.060 L
1,1-Dichloroethene	μg/L	7.	0.7	<0.07 U		<0.024 U	<0.024 U	<0.07 U	<0.070 L
1,2,3-Trichlorobenzene	μg/L			<0.05 U	<0.050 U	<0.040 U	<0.040 U	<0.05 U	<0.050 L
1,2,4-Trichlorobenzene	μg/L	70. 480.	14. 96.	<0.04 U	<0.040 U	<0.029 U	<0.029 U	<0.04 U	<0.040 L <0.050 L
1,2,4-Trimethylbenzene 1,2-Dichlorobenzene	μg/L μg/L	600.	96. 60.	<0.05 U <0.06 U	<0.050 U <0.060 U	<0.024 U <0.025 U	<0.024 U <0.025 U	<0.05 U <0.06 U	<0.050 L
1,2-Dichloroethane	μg/L μg/L	5.	0.5	<0.04 U	<0.040 U	<0.023 U	<0.023 U	<0.04 U	<0.040 L
1,2-Dichloropropane	μg/L	5.	0.5	<0.04 U		<0.030 U	<0.030 U	<0.04 U	<0.060 L
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.06 U	<0.060 U	<0.022 U	<0.022 U	<0.06 U	<0.060 L
1,3-Dichlorobenzene	μg/L	600.	120.	<0.06 U	<0.060 U	0.14	<0.021 U	<0.06 U	<0.060 L
2-Chlorotoluene	μg/L			<0.06 U	<0.060 U	<0.025 U	<0.025 U	<0.06 U	<0.060 L
4-Chlorotoluene	μg/L			<0.05 U	<0.050 U	<0.029 U	<0.029 U	<0.05 U	<0.050 L
Acetone	μg/L	9000.	1800.	<0.9 U	<0.90 U	<1.3 UZ	<1.3 UZ	<0.9 U	<0.90 L
Benzene	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.019 U	<0.019 U	<0.06 U	<0.060 L
Bromobenzene	μg/L			<0.04 U	<0.040 U	<0.030 U	<0.030 U	<0.04 U	<0.040 L
Chlorobenzene	μg/L			<0.04 U	<0.040 U	<0.024 U	<0.024 U	<0.04 U	<0.040 L
Chloroethane Chloromethane	μg/L	400. 30.	80. 3.	<0.06 U <0.05 U	<0.060 U <0.050 U	<0.040 U 0.087 JB	<0.040 U <0.040 U	<0.06 U <0.05 U	<0.060 L <0.050 L
cis-1,2-Dichloroethene	μg/L μg/L	70.	7.	0.05 U	<0.050 U	1.5	1.4	1.7	1.6
Diisopropyl ether	μg/L			<0.04 U	<0.040 U	<0.021 U	<0.021 U	<0.04 U	<0.040 L
Ethylbenzene	μg/L	700.	140.	<0.04 U		<0.019 U	<0.019 U	<0.04 U	<0.060 L
Hexachlorobutadiene	μg/L			<0.07 U	<0.070 U	<0.070 U	<0.070 U	<0.07 U	<0.070 L
Isopropylbenzene	μg/L			<0.05 U	<0.050 U	<0.060 U	<0.060 U	<0.05 U	<0.050 L
m & p-Xylene	μg/L	2000.	400.	<0.12 U	<0.12 U	<0.050 U	<0.050 U	<0.12 U	<0.12 L
Methyl tert-butyl ether	μg/L	60.	12.	<0.04 U	<0.040 U	0.44	0.45	0.49	0.53
Methylene chloride	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.15 U	<0.15 U	<0.06 U	<0.060 L
Naphthalene	μg/L	100.	10.	<0.05 U	<0.050 U	<0.040 U	<0.040 U	<0.05 U	<0.050 L
n-Butylbenzene	μg/L			<0.05 U	<0.050 U	<0.021 U	<0.021 U	<0.05 U	<0.050 L
n-Propylbenzene	μg/L			<0.05 U	<0.050 U	<0.022 U	<0.022 U	<0.05 U	<0.050 L
o-Xylene	μg/L	2000.	400.	<0.05 U	<0.050 U	<0.027 U	<0.027 U	<0.05 U	<0.050 L
p-Isopropyltoluene	μg/L			<0.06 U	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060 L
sec-Butylbenzene	μg/L	100		<0.05 U	<0.050 U	<0.024 U	<0.024 U	<0.05 U	<0.050 L
Styrene tert-Butylbenzene	μg/L ug/l	100.	10.	<0.05 U <0.06 U	<0.050 U <0.060 U	<0.020 U <0.025 U	<0.020 U <0.025 U	<0.05 U <0.06 U	<0.050 L <0.060 L
Tetrachloroethene	μg/L μg/L	5.	0.05	0.064 J	<0.060 U	<0.025 U	<0.025 U	<0.06 U	<0.060 t
Tetrahydrofuran	μg/L μg/L	50.	10.	<0.6 U	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060 t
Toluene	μg/L μg/L	800.	160.	<0.06 U	<0.060 U	<0.70 U	<0.027 U	<0.06 U	<0.060 L
trans-1,2-Dichloroethene	μg/L	100.	20.	<0.06 U	<0.060 U	0.055 J	0.027 J	<0.06 U	<0.060 L
Trichloroethene	μg/L	5.	0.5	0.13	0.051 J	0.032 J	0.022 J	0.045 J	<0.030 L
Vinyl chloride	μg/L	0.2	0.02	<0.016 U		0.043 J	0.044 J	0.052	0.046 .

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

			e Sampled	12/8/2014	5/7/2015	11/06/2015	5/13/2016	12/9/2014	5/7/2015
	Units	NR140 ES	NR140 PAL	MW-15S	MW-15S	MW-15S	MW-15S	MW-15D	MW-15D
<u>Field Parameters</u>									
Dissolved Oxygen (DO)	mg/L			3.68	7.63	2.14	4.97	0.71	0.3
Oxidation Reduction Potential	millivolts			43	77	20	228	144	4
pH	pH-units			7.44	7.00	6.70	7.45	7.11	6.7
Specific Conductivity	umhos/cm			583	779	1490	826	987	99
Temperature	deg-C			10.17	11.35	13.10	15.77	10.61	12.9
Turbidity	ntu			0.	0.	0.	0.	0.	0.
Natural Attenuation Parameters Alkalinity, total (as CaCO ₃)				300.	220.	340.	310.	250	350.
Chloride (as Cl)	mg/L mg/L	250.	125.	96.	190.	130.	120.	350. 220.	190.
Iron, total (unfiltered)	mg/L			<0.020 U	<0.020 U	0.062 J	<0.020 U	0.265	0.0481
Iron, dissolved (filtered)	mg/L	0.3	0.15	0.0221 J	0.0206 J	<0.002 U	<0.010 U	0.203 0.014 J	0.0222
Manganese, total (unfiltered)	μg/L			8.7	4.7 J	20.7	10.4	269.	301.
Manganese, dissolved (filtered)	μg/L	50.	25.	19.3	<1.6 U	18.5	4.5 J	235.	311.
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 l
Ethane	μg/L			<0.60 U	<0.60 U	<0.9 U	<0.40 U	<0.60 U	<0.60 l
Ethene	μg/L			<0.90 U	<0.90 U	<1.2 U	<0.50 U	<0.90 U	<0.90 l
Methane	μg/L			1.1	<0.30 U	<0.4 U	<0.40 U	2.9	2.1
Sulfate(as SO4)	mg/L	250.	125.	11.	9.5	17.	19.	43.	54.
Total Organic Carbon VOCs	mg/L			0.96 J	1.3 J	<0.4 U	2.5	1.5	2.2
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.030 U	<0.030 U	<0.05 U	<0.050 U	<0.030 U	<0.030 L
1,1,1-Trichloroethane	μg/L	200.	40.	0.051 J	<0.030 U	<0.06 U	<0.060 U	<0.030 U	<0.030 L
1,1-Dichloroethane	μg/L	850.	85.	0.11	<0.024 U	0.2	0.074 J	0.026 J	0.033
1,1-Dichloroethene	μg/L	7.	0.7	<0.024 U	<0.024 U	<0.07 U	<0.070 U	0.052 J	0.071 、
1,2,3-Trichlorobenzene	μg/L			<0.040 U	<0.040 U	<0.05 U	<0.050 U	<0.040 U	<0.040 L
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.029 U	<0.029 U	<0.04 U	<0.040 U	<0.029 U	<0.029 \
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.024 U	<0.024 U	<0.05 U	<0.050 U	<0.024 U	<0.024 L
1,2-Dichlorobenzene	μg/L	600.	60.	<0.025 U	<0.025 U	<0.06 U	<0.060 U	<0.025 U	<0.025 L
1,2-Dichloroethane	μg/L	5.	0.5	<0.024 U	<0.024 U	<0.04 U	<0.040 U	<0.024 U	<0.024 L
1,2-Dichloropropane	μg/L	5.	0.5	<0.030 U	<0.030 U	<0.06 U	<0.060 U	<0.030 U	<0.030 L
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.022 U	<0.022 U	<0.06 U	<0.060 U	<0.022 U	<0.022 L
1,3-Dichlorobenzene	μg/L	600.	120. 	0.11 <0.025 U	<0.021 U <0.025 U	<0.06 U <0.06 U	<0.060 U	0.13 <0.025 U	<0.021 l <0.025 l
2-Chlorotoluene 4-Chlorotoluene	μg/L μg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U <0.050 U	<0.025 U	<0.025 t
Acetone	μg/L μg/L	9000.	1800.	<1.3 UZ	<1.3 UZ	<0.03 U	<0.90 U	<1.3 UZ	<1.3 L
Benzene	μg/L	5.	0.5	<0.019 U	<0.019 U	<0.06 U	<0.060 U	<0.019 U	<0.019 L
Bromobenzene	μg/L			<0.030 U	<0.030 U	<0.04 U	<0.040 U	<0.030 U	<0.030 L
Chlorobenzene	μg/L			<0.024 U	<0.024 U	<0.04 U	<0.040 U	0.25	0.25
Chloroethane	μg/L	400.	80.	<0.040 U	<0.040 U	<0.06 U	<0.060 U	<0.040 U	<0.040 L
Chloromethane	μg/L	30.	3.	0.055 JB	<0.040 U	<0.05 U	<0.050 U	0.04 JB	<0.040 L
cis-1,2-Dichloroethene	μg/L	70.	7.	0.052 J	<0.030 U	<0.06 U	0.16 J	3.1	3.8
Diisopropyl ether	μg/L			<0.021 U	<0.021 U		<0.040 U	<0.021 U	<0.021 L
Ethylbenzene	μg/L	700.	140.	<0.019 U			<0.060 U	<0.019 U	<0.019 L
Hexachlorobutadiene	μg/L			<0.070 U	<0.070 U	<0.07 U	<0.070 U	<0.070 U	<0.070 L
Isopropylbenzene	μg/L			<0.060 U	<0.060 U		<0.050 U	<0.060 U	
m & p-Xylene	μg/L	2000.	400.	<0.050 U	<0.050 U	<0.12 U	<0.12 U	<0.050 U	<0.050 L
Methyl tert-butyl ether	μg/L	60.	12.	<0.040 U	<0.040 U	<0.04 U	<0.040 U	<0.040 U	<0.040 L
Methylene chloride	μg/L	5.	0.5	<0.15 U	<0.15 U		<0.060 U	<0.15 U	
Naphthalene n-Butylbenzene	μg/L μg/L	100.	10.	<0.040 U <0.021 U	<0.040 U <0.021 U	<0.05 U <0.05 U	<0.050 U <0.050 U	<0.040 U <0.021 U	<0.040 l <0.021 l
n-Propylbenzene	μg/L μg/L			<0.021 U	<0.021 U		<0.050 U	<0.021 U	<0.021 t
o-Xylene	μg/L μg/L	2000.	400.	<0.022 U	<0.022 U	<0.05 U	<0.050 U	<0.022 U	<0.022 t
p-Isopropyltoluene	μg/L			<0.030 U	<0.030 U		<0.060 U	<0.030 U	<0.030 l
sec-Butylbenzene	μg/L			<0.024 U	<0.024 U	<0.05 U	<0.050 U	<0.024 U	<0.024 l
Styrene	μg/L	100.	10.	<0.020 U	<0.020 U	<0.05 U	<0.050 U	<0.020 U	<0.020 l
tert-Butylbenzene	μg/L			<0.025 U	<0.025 U		<0.060 U	<0.025 U	
Tetrachloroethene	μg/L	5.	0.05	0.07 J	<0.030 U		<0.060 U	<0.030 U	<0.030 l
Tetrahydrofuran	μg/L	50.	10.	<0.70 U	<0.70 U	<0.6 U	<0.60 UB	<0.70 U	<0.70 l
Toluene	μg/L	800.	160.	<0.027 U			<0.060 U	<0.027 U	<0.027 l
trans-1,2-Dichloroethene	μg/L	100.	20.	<0.040 U	<0.040 U	<0.06 U	<0.060 U	0.086 J	0.17
Trichloroethene	μg/L	5.	0.5	0.11	<0.020 U		0.098 J	9.	12.
Vinyl chloride	μg/L	0.2	0.02	<0.019 U	<0.019 U	<0.016 U	<0.016 U	0.02 J	<0.019 L

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				11/06/2015	5/16/2016	12/8/2014	5/7/2015	11/06/2015	5/13/2016
	Units	NR140 ES	NR140 PAL	MW-15D	MW-15D	MW-15B	MW-15B	MW-15B	MW-15B
Field Parameters									
Dissolved Oxygen (DO)	mg/L			2.55	0.00	1.18	0.13	0.32	0.0
Oxidation Reduction Potential	millivolts			45	158	-131	-121	-128	-129
pH	pH-units			6.67	7.19	7.28	6.81	6.93	7.3
Specific Conductivity	umhos/cm			920	1140	508	586	552	709
Temperature	deg-C			12.35	15.91	9.17	13.62	12.28	13.5
Turbidity Natural Attenuation Parameters	ntu			1.6	0.3	48.	0.05	0.	1.3
Alkalinity, total (as CaCO ₃)	mg/L			340.	370.	410.	390.	420.	44(
Chloride (as Cl)	mg/L	250.	125.	180.	45.	13.	9.2	8.6 M	2.3
Iron, total (unfiltered)	mg/L			0.0353 J	0.147	2.27	2.29	3.31	2.14
Iron, dissolved (filtered)	mg/L	0.3	0.15	<0.01 U	<0.010 U	2.07	2.25	2.45	2.33
Manganese, total (unfiltered)	μg/L			256.	226.	631.	516.	548.	410
Manganese, dissolved (filtered)	μg/L	50.	25.	251.	225.	550.	521.	539.	442
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 l
Ethane	μg/L			<0.9 U	<0.40 U	<0.60 U	5.7	<0.9 U	0.93
Ethene	μg/L			<1.2 U	<0.50 U	<0.90 U	<0.90 U	<1.2 U	<0.50 L
Methane	μg/L			1.8	2.8	590.	720.	580.	920
Sulfate(as SO4)	mg/L	250.	125.	42.	210.	16.	8.9	6.	8.7
Total Organic Carbon VOCs	mg/L			0.68 J	2.9	0.68 J	1.2 J	<0.4 U	1.3 .
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.05 U	<0.050 U	<0.030 U	<0.030 U	<0.05 U	<0.050 L
1,1,1-Trichloroethane	μg/L	200.	40.	<0.06 U	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060 L
1,1-Dichloroethane	μg/L	850.	85.	<0.06 U	<0.060 U	<0.024 U	<0.024 U	<0.06 U	<0.060 L
1,1-Dichloroethene	μg/L	7.	0.7	<0.07 U		<0.024 U	<0.024 U	<0.07 U	<0.070 L
1,2,3-Trichlorobenzene	μg/L			<0.05 U	<0.050 U	<0.040 U	<0.040 U	<0.05 U	<0.050 L
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.04 U	<0.040 U	<0.029 U	<0.029 U	<0.04 U	<0.040 L
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.05 U		<0.024 U	<0.024 U	<0.05 U	<0.050 L
1,2-Dichlorobenzene 1,2-Dichloroethane	μg/L μg/L	600. 5.	60. 0.5	<0.06 U <0.04 U	<0.060 U <0.040 U	<0.025 U <0.024 U	<0.025 U <0.024 U	<0.06 U <0.04 U	<0.060 L <0.040 L
1,2-Dichloropropane	μg/L μg/L	5.	0.5	<0.04 U		<0.024 U	<0.024 U	<0.04 U	<0.040 C
1,3,5-Trimethylbenzene	μg/L μg/L	480.	96.	<0.06 U	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060 L
1,3-Dichlorobenzene	μg/L	600.	120.	<0.06 U	<0.060 U	0.13	0.031 J	<0.06 U	<0.060 L
2-Chlorotoluene	μg/L			<0.06 U	<0.060 U	<0.025 U	<0.025 U	<0.06 U	<0.060 L
4-Chlorotoluene	μg/L			<0.05 U	<0.050 U	<0.029 U	<0.029 U	<0.05 U	<0.050 L
Acetone	μg/L	9000.	1800.	<0.9 U	<0.90 U	<1.3 UZ	<1.3 U	<0.9 U	<0.90 L
Benzene	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.019 U	<0.019 U	<0.06 U	<0.060 L
Bromobenzene	μg/L			<0.04 U	<0.040 U	<0.030 U	<0.030 U	<0.04 U	<0.040 L
Chlorobenzene	μg/L			0.24	0.28	<0.024 U	<0.024 U	<0.04 U	<0.040 L
Chloroethane	μg/L	400.	80.	<0.06 U	<0.060 U	<0.040 U	<0.040 U	<0.06 U	<0.060 L
Chloromethane	μg/L	30.	3.	0.077 J			<0.040 U	<0.05 U	
cis-1,2-Dichloroethene	μg/L	70.	7.	2.5	3.9 <0.040 U	<0.030 U	<0.030 U	<0.06 U	<0.060 L <0.040 L
Diisopropyl ether Ethylbenzene	μg/L μg/L	700.	140.	<0.04 U <0.06 U	<0.040 U	<0.021 U <0.019 U	<0.021 U <0.019 U	<0.04 U <0.06 U	<0.040 C
Hexachlorobutadiene	μg/L μg/L	700.	140.	<0.00 U	<0.000 U	<0.070 U	<0.019 U	<0.00 U	<0.000 C
Isopropylbenzene	μg/L			<0.05 U	<0.050 U	<0.060 U	<0.060 U	<0.07 U	<0.050 L
m & p-Xylene	μg/L	2000.	400.	<0.12 U		<0.050 U	<0.050 U	<0.12 U	<0.12 L
Methyl tert-butyl ether	μg/L	60.	12.	<0.04 U	0.043 J	<0.040 U	<0.040 U	<0.04 U	<0.040 L
Methylene chloride	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.15 U	<0.15 U	<0.06 U	<0.060 L
Naphthalene	μg/L	100.	10.	<0.05 U	<0.050 U	<0.040 U	<0.040 U	<0.05 U	<0.050 L
n-Butylbenzene	μg/L			<0.05 U	<0.050 U	<0.021 U	<0.021 U	<0.05 U	<0.050 L
n-Propylbenzene	μg/L			<0.05 U	<0.050 U	<0.022 U	<0.022 U	<0.05 U	<0.050 L
o-Xylene	μg/L	2000.	400.	<0.05 U	<0.050 U	<0.027 U	<0.027 U	<0.05 U	<0.050 L
p-Isopropyltoluene	μg/L			<0.06 U	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060 L
sec-Butylbenzene	μg/L			<0.05 U	<0.050 U	<0.024 U	<0.024 U	<0.05 U	<0.050 L
Styrene	μg/L	100.	10.	<0.05 U	<0.050 U	<0.020 U	<0.020 U	<0.05 U	<0.050 L
tert-Butylbenzene	μg/L			<0.06 U	<0.060 U	<0.025 U	<0.025 U	<0.06 U	<0.060 L
Tetrachloroethene	μg/L	5.	0.05	<0.06 U	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060 L
Tetrahydrofuran Toluane	μg/L	50. 800.	10. 160.	<0.6 U	<0.60 U <0.060 U	<0.70 U <0.027 U	<0.70 U <0.027 U	<0.6 U	<0.60 L
Toluene trans-1,2-Dichloroethene	μg/L μg/L	100.	20.	<0.06 U 0.1 J	0.060 U	<0.027 U	<0.027 U	<0.06 U	<0.060 L
Trichloroethene	μg/L μg/L	5.	0.5	9.8	12.	<0.040 U	<0.040 U	<0.08 U	<0.080 C
			0.0	0.0	16.	~U.U_U	~U.UZU U	~U.UU U	~U.UUU L

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				12/11/2014	5/8/2015	11/05/2015	5/13/2016	12/9/2014	5/7/2015
	Units	NR140 ES	NR140 PAL	MW-16S	MW-16S	MW-16S	MW-16S	MW-101S	MW-101S
Field Parameters			. ,	Not					
Dissolved Oxygen (DO)	mg/L			Sampled.	9.96	0.36	0.00	5.27	3.64
Oxidation Reduction Potential	millivolts			Ice in well.	-90	-80	-73	110	128
рН	pH-units				6.44	6.48	7.01	7.37	6.52
Specific Conductivity	umhos/cm				299	2510	2730	1940	1570
Temperature	deg-C				9.96		15.36		19.29
Turbidity	ntu				19.2	11.4	2.8	0.	3.9
Natural Attenuation Parameters	/1				000	700	700	070	050
Alkalinity, total (as CaCO ₃) Chloride (as Cl)	mg/L	250	 125.		680. 260.	720.	730. 250.	370. 590.	250. 690.
Iron, total (unfiltered)	mg/L mg/L	250. 	125.		7.73	230. 6.35	58.3	<0.020 U	0.0687
Iron, dissolved (filtered)	mg/L	0.3	0.15		6.3	5.42	5.77	0.0111 J	0.0067 0.0199 J
Manganese, total (unfiltered)	μg/L				67.8	76.3	6.77	371.	99.2
Manganese, dissolved (filtered)	μg/L	50.	25.		65.6	64.8	58.6	100.	<1.6 U
Acetylene	μg/L				<0.23 U	<0.23 U	<0.23 U		<0.23 UM,Y
Ethane	μg/L				<0.60 U	<0.9 U	<0.40 U		<0.60 U
Ethene	μg/L				<0.90 U	<1.2 U	<0.50 U		<0.90 U
Methane	μg/L				11.	13.	19.	<0.30 U	<0.30 U
Sulfate(as SO4)	mg/L	250.	125.		910.	790.	950.	17.	20.
Total Organic Carbon	mg/L				3.8	3.1	4.8	4.6	5.2
VOCs	/1	70	-		.0.000 !!	0.5.11	.0.50.11	0.000 11	.0.000 !!
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	μg/L	70. 200.	7. 40.		<0.030 U	<2.5 U	<0.50 U		<0.030 U
, ,	μg/L	850.	85.		<0.030 U	<3 U	<0.60 U		<0.030 U
1,1-Dichloroethane 1,1-Dichloroethene	μg/L μg/L	7.	0.7		0.23 1.1	<3.5 U	<0.60 U 0.81 J		<0.024 U <0.024 U
1,2,3-Trichlorobenzene	μg/L μg/L				<0.040 U	<2.5 U	<0.50 U		<0.024 U
1,2,4-Trichlorobenzene	μg/L μg/L	70.	14.		<0.040 U	<2.0 U	<0.40 U		<0.029 U
1,2,4-Trimethylbenzene	μg/L	480.	96.		<0.023 U	<2.5 U	<0.50 U		<0.023 U
1,2-Dichlorobenzene	μg/L	600.	60.		<0.025 U	<3 U	<0.60 U		<0.025 U
1,2-Dichloroethane	μg/L	5.	0.5		2.1	3.3 J	2.5	<0.024 U	<0.024 U
1,2-Dichloropropane	μg/L	5.	0.5		<0.030 U	<3 U	<0.60 U		<0.030 U
1,3,5-Trimethylbenzene	μg/L	480.	96.		<0.022 U	<3 U	<0.60 U		<0.022 U
1,3-Dichlorobenzene	μg/L	600.	120.		<0.021 U	<3 U	<0.60 U	0.12	<0.021 U
2-Chlorotoluene	μg/L				<0.025 U	<3 U	<0.60 U		<0.025 U
4-Chlorotoluene	μg/L				<0.029 U	<2.5 U	<0.50 U		<0.029 U
Acetone	μg/L	9000.	1800.		<1.3 U	<45 U	240 B	<1.3 UZ	<1.3 U
Benzene	μg/L	5.	0.5		0.024 J	<3 U	<0.60 U		<0.019 U
Bromobenzene	μg/L				<0.030 U	<2 U	<0.40 U		<0.030 U
Chlorobenzene	μg/L				<0.024 U	<2 U	<0.40 U		<0.024 U
Chloroethane	μg/L	400.	80.		<0.040 U	<3 U	<0.60 U		<0.040 U
Chloromethane	μg/L	30.	3.		<0.040 U		<0.50 U		
cis-1,2-Dichloroethene	μg/L	70.	7.		800.	1000.	630.	<0.030 U <0.021 U	<0.030 U
Diisopropyl ether Ethylbenzene	μg/L μg/L	700.	140.		<0.021 U <0.019 U	<2 U <3 U	<0.40 U <0.60 U		<0.021 U <0.019 U
Hexachlorobutadiene	μg/L μg/L				<0.070 U	<3.5 U	<0.70 U		<0.070 U
Isopropylbenzene	μg/L				<0.060 U	<2.5 U	<0.70 U		<0.060 U
m & p-Xylene	μg/L	2000.	400.		<0.050 U		<1.2 U		<0.050 U
Methyl tert-butyl ether	μg/L	60.	12.		<0.040 U	<2 U	<0.40 U		<0.040 U
Methylene chloride	μg/L	5.	0.5		<0.15 U	<3 U	<0.60 U		<0.15 U
Naphthalene	μg/L	100.	10.		<0.040 U		<0.50 U		<0.040 U
n-Butylbenzene	μg/L				<0.021 U	<2.5 U	<0.50 U		<0.021 U
n-Propylbenzene	μg/L				<0.022 U	<2.5 U	<0.50 U		<0.022 U
o-Xylene	μg/L	2000.	400.		<0.027 U		<0.50 U		<0.027 U
p-Isopropyltoluene	μg/L				<0.030 U	<3 U	<0.60 U		<0.030 U
sec-Butylbenzene	μg/L				<0.024 U	<2.5 U	<0.50 U		<0.024 U
Styrene	μg/L	100.	10.		<0.020 U	<2.5 U	<0.50 U		<0.020 U
tert-Butylbenzene	μg/L				<0.025 U	<3 U	<0.60 U		<0.025 U
Tetrachloroethene	μg/L	5.	0.05		<0.030 U	<3 U	<0.60 U		<0.030 U
Tetrahydrofuran	μg/L	50.	10.		3.1	<30 U	8.8 JZ	<0.70 U	<0.70 U
Toluene	μg/L	800.	160.		<0.027 U	<3 U	<0.60 U		<0.027 U
trans-1,2-Dichloroethene Trichloroethene	μg/L	100.	20. 0.5		34. 0.034 J	32. <1.5 U	27. <0.30 U	<0.040 U	<0.040 U
Vinyl chloride	μg/L μg/L	5. 0.2	0.02		28.	58.	23.	<0.020 U <0.019 U	<0.020 U <0.019 U
viriyi dillollu c	I49/∟	0.2	0.02		20.	50.	۷٥.	V0.018 U	\0.019 U

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				11/04/2015	5/10/2016	12/9/2014	5/7/2015	11/04/2015	5/10/2016
	Units	NR140 ES	NR140 PAL	MW-101S	MW-101S	MW-101B	MW-101B	MW-101B	MW-101B
Field Parameters									
Dissolved Oxygen (DO)	mg/L			6.53	2.62	0.10	0.11	0.19	0.2
Oxidation Reduction Potential	millivolts			105	336	35	87	30	25
pH	pH-units			7.18	6.82	7.62	6.85	7.49	7.2
Specific Conductivity	umhos/cm			2330	3180	990	863	862	118
Temperature	deg-C			16.49	9.98	9.65	14.54	15.41	10.5
Turbidity Natural Attenuation Parameters	ntu			0.	12.3	0.	0.5	0.	1.3
Alkalinity, total (as CaCO ₃)	mg/L			420.	330.	330.	320.	350.	360.
Chloride (as Cl)	mg/L	250.	125.	420.	830.	240.	190.	180.	180.
Iron, total (unfiltered)	mg/L			0.0383 J	0.0458 J	<0.020 U	0.0525 J	0.0523 J	<0.020 l
Iron, dissolved (filtered)	mg/L	0.3	0.15	<0.01 U		<0.010 U	0.0115 J	0.0229 J	<0.010 \
Manganese, total (unfiltered)	μg/L			157.	68.6	88.2	58.7	128.	51.8
Manganese, dissolved (filtered)	μg/L	50.	25.	4.6 J	<1.6 U	95.9	58.4	115.	57.4
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 l
Ethane	μg/L			<0.9 U	<0.40 U	<0.60 U	<0.60 U	<0.9 U	<0.40 l
Ethene	μg/L			<1.2 U	<0.50 U	<0.90 U	<0.90 U	<1.2 U	<0.50 l
Methane	μg/L			<0.4 U	<0.40 U	41.	31.	67.	75.
Sulfate(as SO4)	mg/L	250.	125.	29.	26.	40.	43.	49.	40.
Total Organic Carbon VOCs	mg/L			5.6	6.5 Y	0.72 J	1.1 J	<0.4 U	2.
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.05 U	<0.050 U	<0.030 U	<0.030 U	<0.05 U	<0.050 l
1,1,1-Trichloroethane	μg/L	200.	40.	<0.06 U	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060 l
1,1-Dichloroethane	μg/L	850.	85.	<0.06 U		<0.024 U	<0.024 U	<0.06 U	<0.060 l
1,1-Dichloroethene	μg/L	7.	0.7	<0.07 U		<0.024 U	<0.024 U	<0.07 U	<0.070 l
1,2,3-Trichlorobenzene	μg/L			<0.05 U		<0.040 U	<0.040 U	<0.05 U	<0.050 l
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.04 U		<0.029 U	<0.029 U	<0.04 U	<0.040 l
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.05 U		<0.024 U	<0.024 U	<0.05 U	<0.050 l
1,2-Dichlorobenzene 1,2-Dichloroethane	μg/L	600.	60. 0.5	<0.06 U <0.04 U	<0.060 U <0.040 U	<0.025 U <0.024 U	<0.025 U <0.024 U	<0.06 U <0.04 U	<0.060 l <0.040 l
1,2-Dichloropropane	μg/L μg/L	5. 5.	0.5	<0.04 U		<0.024 U	<0.024 U	<0.04 U	<0.040 t
1,3,5-Trimethylbenzene	μg/L μg/L	480.	96.	<0.06 U	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060 t
1,3-Dichlorobenzene	μg/L	600.	120.	<0.06 U	<0.060 U	0.13	<0.021 U	0.068 J	<0.060 l
2-Chlorotoluene	μg/L			<0.06 U		<0.025 U	<0.025 U	<0.06 U	<0.060 l
4-Chlorotoluene	μg/L			<0.05 U		<0.029 U	<0.029 U	<0.05 U	<0.050 \
Acetone	μg/L	9000.	1800.	<0.9 U	<0.90 U	<1.3 UZ	<1.3 U	<0.9 U	<0.90 l
Benzene	μg/L	5.	0.5	<0.06 U		<0.019 U	<0.019 U	<0.06 U	<0.060 l
Bromobenzene	μg/L			<0.04 U		<0.030 U	<0.030 U	<0.04 U	<0.040 l
Chlorobenzene	μg/L			<0.04 U	<0.040 U	<0.024 U	<0.024 U	<0.04 U	<0.040 l
Chloroethane	μg/L	400.	80.	<0.06 U		<0.040 U	<0.040 U	<0.06 U	<0.060 l
Chloromethane	μg/L	30.	3.	<0.05 U					
cis-1,2-Dichloroethene	μg/L	70.	7.	<0.06 U		0.37	0.23	0.34	0.32
Diisopropyl ether Ethylbenzene	μg/L	700		<0.04 U		<0.021 U	<0.021 U	<0.04 U <0.06 U	<0.040 l
Hexachlorobutadiene	μg/L μg/L	700.	140.	<0.06 U <0.07 U		<0.019 U <0.070 U	<0.019 U <0.070 U	<0.06 U	<0.060 l <0.070 l
Isopropylbenzene	μg/L μg/L			<0.07 U		<0.070 U	<0.070 U	<0.07 U	<0.070 t
m & p-Xylene	μg/L μg/L	2000.	400.	<0.03 U		<0.050 U	<0.050 U	<0.03 U	<0.030 t
Methyl tert-butyl ether	μg/L	60.	12.	<0.04 U	<0.040 U	0.26	0.22	0.29	0.24
Methylene chloride	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.15 U	<0.15 U	<0.06 U	<0.060 l
Naphthalene	μg/L	100.	10.	<0.05 U		<0.040 U	<0.040 U	<0.05 U	<0.050 \
n-Butylbenzene	μg/L			<0.05 U	<0.050 U	<0.021 U	<0.021 U	<0.05 U	<0.050 l
n-Propylbenzene	μg/L			<0.05 U	<0.050 U	<0.022 U	<0.022 U	<0.05 U	<0.050 l
o-Xylene	μg/L	2000.	400.	<0.05 U		<0.027 U	<0.027 U	<0.05 U	<0.050 l
p-Isopropyltoluene	μg/L			<0.06 U		<0.030 U	<0.030 U	<0.06 U	<0.060 l
sec-Butylbenzene	μg/L			<0.05 U	<0.050 U	<0.024 U	<0.024 U	<0.05 U	<0.050 l
Styrene	μg/L	100.	10.	<0.05 U		<0.020 U	<0.020 U	<0.05 U	<0.050 \
tert-Butylbenzene	μg/L			<0.06 U		<0.025 U	<0.025 U	<0.06 U	<0.060 l
Tetrachloroethene	μg/L	5.	0.05	<0.06 U	<0.060 U	<0.030 U	<0.030 U	<0.06 U	<0.060
Tetrahydrofuran Teluana	μg/L	50.	10.	<0.6 U	<0.60 U	<0.70 U	<0.70 U	<0.6 U	<0.60 l
Toluene trong 1.2 Diableroothens	μg/L	800.	160.	<0.06 U		<0.027 U	<0.027 U	<0.06 U	<0.060 l
trans-1,2-Dichloroethene	μg/L μg/L	100. 5.	20. 0.5	<0.06 U <0.03 U	<0.060 U <0.030 U	<0.040 U <0.020 U	<0.040 U 0.047 J	<0.06 U 0.03 J	<0.060 l 0.045 ·
Trichloroethene									

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

			e Sampled	12/9/2014	5/7/2015	11/06/2015	5/13/2016	12/9/2014	5/7/2015
	Units	NR140 ES	NR140 PAL	MW-102S	MW-102S	MW-102S	MW-102S	MW-102D	MW-102D
Field Parameters			. , , , _						
Dissolved Oxygen (DO)	mg/L			0.71	5.00	2.22	6.79	7.07	0.00
Oxidation Reduction Potential	millivolts			144	122	83	356	-80	-78
pH	pH-units			7.16	6.61	6.42	7.14	7.61	6.90
Specific Conductivity	umhos/cm			2520	1980	2640	1230	1010	977
Temperature	deg-C			9.80	10.33	13.44	12.17	8.65	11.97
Turbidity	ntu			0.	0.	0.	0.	0.	0.
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L			420.	360.	420.	350.	330.	330.
Chloride (as Cl)	mg/L	250.	125.	650.	490.	630.	220.	230.	200.
Iron, total (unfiltered)	mg/L			<0.020 U	<0.020 U	<0.02 U	<0.020 U	0.754	0.785
Iron, dissolved (filtered)	mg/L	0.3	0.15	<0.010 U	0.0112 J	<0.01 U	<0.010 U	0.592	0.769
Manganese, total (unfiltered)	μg/L			<1.4 U	<1.4 U	7.	<1.4 U		27.4
Manganese, dissolved (filtered)	μg/L	50.	25.	<1.6 U	<1.6 U	<1.6 U	<1.6 U		29.4
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U		<0.23 U
Ethane	μg/L			<0.60 U	<0.60 U	<0.9 UY	<0.40 U	<0.60 U	<0.60 U
Ethene	μg/L			<0.90 U	<0.90 U	<1.2 U	<0.50 U		<0.90 U
Methane	μg/L			<0.30 U	<0.30 U	<0.4 UY	<0.40 U		7.
Sulfate(as SO4)	mg/L	250.	125.	29.	26.	27.	28.	48.	57.
Total Organic Carbon VOCs	mg/L			1.6	1.8	2.3	0.97 J	1.2 J	1.5
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.030 U	<0.030 U	<0.05 U	<0.050 U	<0.030 U	<0.030 U
1.1.1-Trichloroethane	μg/L μg/L	200.	40.	<0.030 U	<0.030 U	<0.05 U	<0.060 U		<0.030 U
1,1-Dichloroethane	μg/L	850.	85.	<0.024 U	<0.024 U	<0.06 U	<0.060 U		<0.024 U
1,1-Dichloroethene	μg/L	7.	0.7	<0.024 U	<0.024 U		<0.070 U		0.058 J
1,2,3-Trichlorobenzene	μg/L			<0.040 U	<0.040 U	<0.05 U	<0.050 U		<0.040 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.029 U	<0.029 U	<0.04 U	<0.040 U		<0.029 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.023 U	<0.023 U	<0.05 U	<0.050 U		<0.023 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.024 U	<0.025 U	<0.06 U	<0.060 U		<0.025 U
1,2-Dichloroethane	μg/L	5.	0.5	<0.024 U	<0.024 U	<0.04 U	<0.040 U		0.067 J
1,2-Dichloropropane	μg/L	5.	0.5	<0.030 U	<0.030 U	<0.06 U	<0.060 U		<0.030 U
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.022 U	<0.022 U	<0.06 U	<0.060 U		<0.022 U
1,3-Dichlorobenzene	μg/L	600.	120.	0.1	<0.021 U	<0.06 U	<0.060 U	0.15	0.033 J
2-Chlorotoluene	µg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U		<0.025 U
4-Chlorotoluene	μg/L			<0.029 U	<0.029 U	<0.05 U	<0.050 U		<0.029 U
Acetone	μg/L	9000.	1800.	<1.3 UZ	<1.3 U	<0.9 U	<0.90 U		<1.3 U
Benzene	μg/L	5.	0.5	<0.019 U	<0.019 U	<0.06 U	<0.060 U		<0.019 U
Bromobenzene	μg/L			<0.030 U	<0.030 U	<0.04 U	<0.040 U		<0.030 U
Chlorobenzene	μg/L			<0.024 U	<0.024 U	<0.04 U	<0.040 U		<0.024 U
Chloroethane	μg/L	400.	80.	<0.040 U	<0.040 U	<0.06 U	<0.060 U	<0.040 U	<0.040 U
Chloromethane	μg/L	30.	3.	0.066 JB	<0.040 U	<0.05 U	<0.050 U	0.055 JB	<0.040 U
cis-1,2-Dichloroethene	μg/L	70.	7.	<0.030 U	<0.030 U	<0.06 U	<0.060 U	10.	7.8
Diisopropyl ether	μg/L			<0.021 U	<0.021 U	<0.04 U	<0.040 U	<0.021 U	<0.021 U
Ethylbenzene	μg/L	700.	140.	<0.019 U	<0.019 U	<0.06 U	<0.060 U	<0.019 U	<0.019 U
Hexachlorobutadiene	μg/L			<0.070 U	<0.070 U	<0.07 U	<0.070 U	<0.070 U	<0.070 U
Isopropylbenzene	μg/L			<0.060 U	<0.060 U	<0.05 U	<0.050 U	<0.060 U	<0.060 U
m & p-Xylene	μg/L	2000.	400.	<0.050 U	<0.050 U	<0.12 U	<0.12 U		<0.050 U
Methyl tert-butyl ether	μg/L	60.	12.	<0.040 U	<0.040 U	<0.04 U	<0.040 U		0.38
Methylene chloride	μg/L	5.	0.5	<0.15 U	<0.15 U	<0.06 U	<0.060 U		<0.15 U
Naphthalene	μg/L	100.	10.	<0.040 U	<0.040 U		<0.050 U		<0.040 U
n-Butylbenzene	μg/L			<0.021 U	<0.021 U	<0.05 U	<0.050 U		<0.021 U
n-Propylbenzene	μg/L			<0.022 U	<0.022 U	<0.05 U	<0.050 U		<0.022 U
o-Xylene	μg/L	2000.	400.	<0.027 U	<0.027 U	<0.05 U	<0.050 U		<0.027 U
p-Isopropyltoluene	μg/L			<0.030 U	<0.030 U	<0.06 U	<0.060 U		<0.030 U
sec-Butylbenzene	μg/L			<0.024 U	<0.024 U	<0.05 U	<0.050 U		<0.024 U
Styrene	μg/L	100.	10.	<0.020 U	<0.020 U	<0.05 U	<0.050 U		<0.020 U
tert-Butylbenzene	μg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U		<0.025 U
Tetrachloroethene	μg/L	5.	0.05	<0.030 U	<0.030 U	<0.06 U	<0.060 U		<0.030 U
Tetrahydrofuran	μg/L	50.	10.	<0.70 U	<0.70 U	<0.6 U	<0.60 U		<0.70 U
Toluene	μg/L	800.	160.	<0.027 U	<0.027 U	<0.06 U	<0.060 U		<0.027 U
trans-1,2-Dichloroethene	μg/L	100.	20.	<0.040 U	<0.040 U	<0.06 U	<0.060 U		0.22
Trichloroethene	μg/L	5.	0.5	<0.020 U	<0.020 U	<0.03 U	<0.030 U		0.26
Vinyl chloride	μg/L	0.2	0.02	<0.019 U	<0.019 U	<0.016 U	<0.016 U	0.15	0.23

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				11/06/2015	5/18/2016	12/8/2014	5/5/2015	11/04/2015	5/18/2016
	Units	NR140 ES	NR140 PAL	MW-102D	MW-102D	MW-103S	MW-103S	MW-103S	MW-103S
Field Parameters			1712						
Dissolved Oxygen (DO)	mg/L			0.30	0.29	0.76	0.00	0.65	5.74
Oxidation Reduction Potential	millivolts			-70		116	90	134	213
pH	pH-units			6.88	6.79	7.05	7.07	7.04	6.65
Specific Conductivity	umhos/cm			887	1400		1040	896	841
Temperature	deg-C			11.65	11.56	8.99	8.07	18.20	10.40
Turbidity	ntu			0.	0.	2.4	4.6	0.	0.
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L			340.	460.	510.	450.	550.	490.
Chloride (as CI)	mg/L	250.	125.	160.	220.	71.	47.	89.	57.
Iron, total (unfiltered)	mg/L			0.628	1.4	0.0347 J	0.0645 J	0.0491 J	0.0206 J
Iron, dissolved (filtered)	mg/L	0.3	0.15	0.553	1.54	0.0224 J	<0.010 U	0.0222 J	0.0339
Manganese, total (unfiltered)	μg/L			31.8	37.7	394.	414.	449.	394.
Manganese, dissolved (filtered)	μg/L	50.	25.	20.3	34.2	182.	366.	311.	348.
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U
Ethane	μg/L			<0.9 U	<0.40 U	<0.60 U	<0.60 U	<0.9 U	<0.40 U
Ethene	μg/L			<1.2 U	<0.50 U	<0.90 U	<0.90 U	<1.2 U	<0.50 U
Methane	μg/L			7.9	12.	3.	6.2	11.	88.
Sulfate(as SO4)	mg/L	250.	125.	45.	100.	52.	46.	88.	69.
Total Organic Carbon VOCs	mg/L			0.84 J	2.3	6.8	5.7	6.9	6.9
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.05 U	<0.25 U	<0.30 U	<0.30 U	<0.5 U	<0.50 U
1,1,1-Trichloroethane	μg/L	200.	40.	<0.06 U	<0.30 U	32.	21.	39.	30.
1,1-Dichloroethane	μg/L	850.	85.	<0.06 U	<0.30 U	7.3	4.8	12.	7.6
1,1-Dichloroethene	μg/L	7.	0.7	<0.07 U		2.3	1.8	5.1	4.
1,2,3-Trichlorobenzene	μg/L			<0.05 U	<0.25 U	<0.40 U	<0.40 U		<0.50 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.04 U	<0.20 U	<0.29 U	<0.29 U		<0.40 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.05 U	<0.25 U	<0.24 U	<0.24 U		<0.50 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.06 U	<0.30 U	<0.25 U	<0.25 U		<0.60 U
1,2-Dichloroethane	μg/L	5.	0.5	0.074 J	0.28 J	0.33 J	0.75 J	1.2 J	1.2 J
1,2-Dichloropropane	μg/L	5.	0.5	<0.06 U	<0.30 U	<0.30 U	<0.30 U		<0.60 U
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.06 U	<0.30 U	<0.22 U	<0.22 U		<0.60 U
1,3-Dichlorobenzene	μg/L	600.	120.	<0.06 U	<0.30 U	<0.21 U	<0.21 U		<0.60 U
2-Chlorotoluene	μg/L			<0.06 U	<0.30 U	<0.25 U	<0.25 U		<0.60 U
4-Chlorotoluene	μg/L			<0.05 U	<0.25 U	<0.29 U	<0.29 U		<0.50 U
Acetone	μg/L	9000.	1800.	<0.9 U	110 B	<13 UZ	<13 UZ	<9 U	250 B
Benzene	μg/L	5.	0.5	<0.06 U	<0.30 U	0.59 J	0.43 J	<0.6 U	<0.60 U
Bromobenzene	μg/L			<0.04 U	<0.20 U	<0.30 U	<0.30 U	<0.4 U	<0.40 U
Chlorobenzene	μg/L			<0.04 U	<0.20 U	1.3	0.76 J	2.1	0.86 J
Chloroethane	μg/L	400.	80.	<0.06 U	<0.30 U	<0.40 U	<0.40 U		1.3 J
Chloromethane	μg/L	30.	3.	<0.05 U	<0.25 U	<0.40 U	<0.40 U	<0.5 U	<0.50 U
cis-1,2-Dichloroethene	μg/L	70.	7.	9.3	28.	27.	19.	54.	33.
Diisopropyl ether	μg/L			<0.04 U	<0.20 U	<0.21 U	<0.21 U	<0.4 U	<0.40 U
Ethylbenzene	μg/L	700.	140.	<0.06 U	<0.30 U		<0.19 U		<0.60 U
Hexachlorobutadiene	μg/L		-	<0.07 U	<0.35 U	<0.70 U	<0.70 U		<0.70 U
Isopropylbenzene	μg/L			<0.05 U	<0.25 U	<0.60 U	<0.60 U		<0.50 U
m & p-Xylene	μg/L	2000.	400.	<0.12 U	<0.60 U		<0.50 U		<1.2 U
Methyl tert-butyl ether	μg/L	60.	12.	0.35	0.98	<0.40 U	<0.40 U		<0.40 U
Methylene chloride	μg/L	5.	0.5	<0.06 U	<0.30 U	<1.5 U	<1.5 U		<0.60 U
Naphthalene	μg/L	100.	10.	<0.05 U	<0.25 U		<0.40 U		<0.50 U
n-Butylbenzene	μg/L			<0.05 U	<0.25 U	<0.21 U	<0.21 U		<0.50 U
n-Propylbenzene	μg/L			<0.05 U	<0.25 U	<0.22 U	<0.22 U		<0.50 U
o-Xylene	μg/L	2000.	400.	<0.05 U	<0.25 U		<0.27 U		<0.50 U
p-Isopropyltoluene	μg/L			<0.06 U	<0.30 U	<0.30 U	<0.30 U		<0.60 U
sec-Butylbenzene	μg/L			<0.05 U	<0.25 U	<0.24 U	<0.24 U		<0.50 U
Styrene	μg/L	100.	10.	<0.05 U	<0.25 U	<0.20 U	<0.20 U		<0.50 U
tert-Butylbenzene	μg/L			<0.06 U	<0.30 U	<0.25 U	<0.25 U		<0.60 U
Tetrachloroethene	μg/L	5.	0.05	<0.06 U	<0.30 U	3.8	8.3	11.	9.6
Tetrahydrofuran	μg/L	50.	10.	<0.6 U	<3.0 U	<7.0 U	<7.0 U		<6.0 U
Toluene	μg/L	800.	160.	<0.06 U	<0.30 U	<0.27 U	<0.27 U		<0.60 U
trans-1,2-Dichloroethene	μg/L	100.	20.	0.25	0.72 J	1.1 J	0.74 J		0.90 J
Trichloroethene	μg/L	5.	0.5	0.36	0.24 J	100.	73.	130.	57.
Vinyl chloride	μg/L	0.2	0.02	0.21	0.32	0.49 J	0.64	1.5	1.5

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

			e Sampled	12/8/2014	12/17/2014	5/5/2015	5/5/2015	11/04/2015	11/04/2015
	Units	NR140	NR140	MW-103D	MW-103D	MW-103D	MW-103D	MW-103D	MW-103D
Field Parameters		ES	PAL		Dup		Dup		DUP
Dissolved Oxygen (DO)	mg/L			9.07	11.65	0.00	0.00	0.46	0.47
Oxidation Reduction Potential	millivolts			-6	39	81	81	78	82
pH	pH-units			6.96	7.75	7.17	7.17	7.11	7.10
Specific Conductivity	umhos/cm			826	1050	1410	1410		923
Temperature	deg-C			9.17	8.60	9.78	9.78		13.79
Turbidity	ntu			3.65	0.	3.2	3.2	0.	0.
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L			420.	410.	390.	400.	440.	440.
Chloride (as CI)	mg/L	250.	125.	180 M	140.	170.	170.	150.	150.
Iron, total (unfiltered)	mg/L			0.12	<0.020 U	0.0253 J	0.128	0.0614 J	0.0473 J
Iron, dissolved (filtered)	mg/L	0.3	0.15	0.0229 J	0.0168 J	<0.010 U	<0.010 U	0.0399	0.0419
Manganese, total (unfiltered)	μg/L			258.	233.	340.	367.	309.	294.
Manganese, dissolved (filtered)	μg/L	50.	25.	195.	207.	324.	320.	280.	282.
Acetylene	μg/L			<0.23 U	<0.60 U	<0.60 U	<0.60 U	<0.23 U	<0.23 U
Ethane	μg/L			<0.60 U	<0.23 U	<0.23 U	<0.23 U	<0.9 U	<0.9 U
Ethene	μg/L			<0.90 U	<0.90 U	<0.90 U	<0.90 U	<1.2 U	<1.2 U
Methane	μg/L			1.9	2.8	5.1	4.6	4.5	5.2
Sulfate(as SO4)	mg/L	250.	125.	62.	53.	60.	60.	62.	61.
Total Organic Carbon	mg/L			7.	21.	5.2	4.9	3.9	4.1
VOCs									
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1 U	<1 U
1,1,1-Trichloroethane	μg/L	200.	40.	55.	55.	49.	47.	46.	43.
1,1-Dichloroethane	μg/L	850.	85.	8.3	8.3	7.9	7.8	7.	7.1
1,1-Dichloroethene	μg/L	7.	0.7	2.9 J	2.4 J	2 J	2.3 J	2.3 J	2.4 J
1,2,3-Trichlorobenzene	μg/L			<2.0 U	<2.0 U	<2.0 U	<2.0 U		<1 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<1.5 U	<1.5 U	<1.5 U	<1.5 U		<0.8 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	16.	1.6 J	<1.2 U	<1.2 U		<1 U
1,2-Dichlorobenzene	μg/L	600.	60.	<1.3 U	<1.3 U	<1.3 U	<1.3 U		<1.2 U
1,2-Dichloroethane	μg/L	5.	0.5	<1.2 U	<1.2 U	<1.2 U	<1.2 U		<0.8 U
1,2-Dichloropropane	μg/L	5.	0.5	<1.5 U	<1.5 U	<1.5 U	<1.5 U		<1.2 U
1,3,5-Trimethylbenzene	μg/L	480.	96. 120.	<1.1 U	<1.1 U	<1.1 U	<1.1 U		<1.2 U
1,3-Dichlorobenzene 2-Chlorotoluene	μg/L μg/L	600. 	120.	<1.1 U <1.3 U	<1.1 U <1.3 U	<1.1 U <1.3 U	<1.1 U <1.3 U	<1.2 U <1.2 U	<1.2 U
4-Chlorotoluene	μg/L μg/L			<1.5 U	<1.5 U	<1.5 U	<1.5 U		<1.2 U
Acetone	μg/L μg/L	9000.	1800.	<65 UZ	<65 UZ	<65 UZ	<65 UZ	<18 U	<18 U
Benzene	μg/L μg/L	5.	0.5	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<1.2 U	<1.2 U
Bromobenzene	μg/L			<1.5 U	<1.5 U	<1.5 U	<1.5 U		<0.8 U
Chlorobenzene	μg/L μg/L			<1.2 U	<1.2 U	<1.2 U	<1.2 U		<0.8 U
Chloroethane	μg/L	400.	80.	<2.0 U	<2.0 U	<2.0 U	<2.0 U		<1.2 U
Chloromethane	μg/L	30.	3.	<2.0 U					<1 U
cis-1,2-Dichloroethene	μg/L	70.	7.	63.	60.	48.	50.	48.	50.
Diisopropyl ether	μg/L			<1.1 U	<1.1 U	<1.1 U	<1.1 U	<0.8 U	<0.8 U
Ethylbenzene	μg/L	700.	140.	<0.95 U	<0.95 U	<0.95 U	<0.95 U		<1.2 U
Hexachlorobutadiene	μg/L			<3.5 U	<3.5 U	<3.5 U	<3.5 U		<1.4 U
Isopropylbenzene	μg/L			<3.0 U	<3.0 U	<3.0 U	<3.0 U		<1 U
m & p-Xylene	μg/L	2000.	400.	<2.5 U	<2.5 U	<2.5 U	<2.5 U		<2.4 U
Methyl tert-butyl ether	μg/L	60.	12.	<2.0 U	<2.0 U	<2.0 U	<2.0 U		<0.8 U
Methylene chloride	μg/L	5.	0.5	<7.5 U	<7.5 U	<7.5 U	<7.5 U		<1.2 U
Naphthalene	μg/L	100.	10.	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<1 U	<1 U
n-Butylbenzene	μg/L			<1.1 U	<1.1 U	<1.1 U	<1.1 U		<1 U
n-Propylbenzene	μg/L			<1.1 U	<1.1 U	<1.1 U	<1.1 U		<1 U
o-Xylene	μg/L	2000.	400.	<1.4 U	<1.4 U	<1.4 U	<1.4 U		<1 U
p-Isopropyltoluene	μg/L			<1.5 U	<1.5 U	<1.5 U	<1.5 U		<1.2 U
sec-Butylbenzene	μg/L			<1.2 U	<1.2 U	<1.2 U	<1.2 U		<1 U
Styrene	μg/L	100.	10.	<1.0 U	<1.0 U	<1.0 U	<1.0 U		<1 U
tert-Butylbenzene	μg/L			<1.3 U	<1.3 U	<1.3 U	<1.3 U		<1.2 U
Tetrachloroethene	μg/L	5.	0.05	<1.5 U	<1.5 U	<1.5 U	<1.5 U		<1.2 U
Tetrahydrofuran	μg/L	50.	10.	<35 U	<35 U	<35 U	<35 U		<12 U
Toluene	μg/L	800.	160.	2 J	<1.4 U	<1.4 U	<1.4 U		<1.2 U
trans-1,2-Dichloroethene	μg/L	100.	20.	<2.0 U	<2.0 U	<2.0 U	<2.0 U		<1.2 U
Trichloroethene	μg/L	5.	0.5	460.	440.	430.	420.	420.	430.
Vinyl chloride	μg/L	0.2	0.02	1.1 J	<0.95 U	1.4 J	1.3 J	0.5 J	0.74 J

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

		Date	e Sampled	5/18/2016	5/18/2016	12/10/2014	12/17/2014	5/5/2015	5/5/2015
		NR140	NR140		MW-103D		MW-105S		MW-105S
	Units	ES	PAL	MW-103D	Dup	MW-105S	Dup	MW-105S	Dup
Field Parameters					•		,		
Dissolved Oxygen (DO)	mg/L			0.02	0.02	0.68	10.42	0.00	0.00
Oxidation Reduction Potential	millivolts			218	220	-27	-46	-55	-55
рН	pH-units			6.80	6.80	7.46	7.51	7.20	7.20
Specific Conductivity	umhos/cm			1110	1110		1750		2360
Temperature	deg-C		-	11.46	11.45		6.52	8.39	8.39
Turbidity	ntu			0.	0.	188.	101.	22.8	22.8
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L			450.	450.	390.	390.	380.	380.
Chloride (as Cl)	mg/L	250.	125.	180.	180.	440.	330.	510.	420.
Iron, total (unfiltered)	mg/L			0.0599 J	0.228	7.44	3.53	2.41	2.45
Iron, dissolved (filtered)	mg/L	0.3	0.15	<0.010 U	<0.010 U	0.924	0.634	1.71	1.69
Manganese, total (unfiltered)	μg/L			379.	364.	205.	217.	218.	212.
Manganese, dissolved (filtered)	μg/L	50.	25.	335.	331.	201.	178.	219.	215.
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U
Ethane	μg/L			<0.40 U	<0.40 U	2.6	4.	2.3	2.3
Ethene	μg/L			<0.50 U	<0.50 U	5.	5.4	1.5 J	1.6 J
Methane	µg/L	250	125	13.	12.	250.	330.	140.	140.
Sulfate(as SO4)	mg/L	250. 	125.	77.	74.	69. 3.3	57. 16.	56.	55.
Total Organic Carbon VOCs	mg/L			5.6	6.7	3.3	10.	2.1	2.6
1,1,1,2-Tetrachloroethane	ua/l	70.	7.	<1.3 U	<0.50 U	<3.0 U	16 J	<6.0 U	<6.0 U
1,1,1,2-Tetrachioroethane	μg/L μg/L	70. 200.	7. 40.	<1.3 U 44.	<0.50 U	<3.0 U	16 J <15 U	<6.0 U	<6.0 U
1,1-Dichloroethane	μg/L μg/L	850.	85.	7.	5.8	93.	90.	73.	71.
1,1-Dichloroethene	μg/L μg/L	7.	0.7	2.1 J	1.3 J	14.	<12 U	73. 11 J	11 J
1,2,3-Trichlorobenzene	μg/L μg/L			<1.3 U	<0.50 U	4.1 J	110.	<8.0 U	<8.0 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<1.0 U	<0.40 U	<2.9 U	100.	<5.8 U	<5.8 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<1.0 U	<0.50 U	<2.4 U	45.	<4.8 U	<4.8 U
1,2-Dichlorobenzene	μg/L	600.	60.	<1.5 U	<0.60 U	<2.5 U	56.	<5.0 U	<5.0 U
1,2-Dichloroethane	μg/L	5.	0.5	<1.0 U	<0.40 U	<2.4 U	<12 U	<4.8 U	<4.8 U
1,2-Dichloropropane	μg/L	5.	0.5	<1.5 U	<0.60 U	<3.0 U	<15 U	<6.0 U	<6.0 U
1,3,5-Trimethylbenzene	μg/L	480.	96.	<1.5 U	<0.60 U	<2.2 U	51.	<4.4 U	<4.4 U
1,3-Dichlorobenzene	μg/L	600.	120.	<1.5 U	<0.60 U	<2.1 U	54.	<4.2 U	<4.2 U
2-Chlorotoluene	μg/L			<1.5 U	<0.60 U	<2.5 U	45.	<5.0 U	<5.0 U
4-Chlorotoluene	μg/L			<1.3 U	<0.50 U	<2.9 U	41 J	<5.8 U	<5.8 U
Acetone	μg/L	9000.	1800.	660 B	230 B	<130 UZ	<650 UZ	<260 UZ	<260 UZ
Benzene	μg/L	5.	0.5	<1.5 U	<0.60 U	<1.9 U	<9.5 U	<3.8 U	<3.8 U
Bromobenzene	μg/L			<1.0 U	<0.40 U	<3.0 U	33 J	<6.0 U	<6.0 U
Chlorobenzene	μg/L			<1.0 U	<0.40 U	6.7 J	25 J	<4.8 U	<4.8 U
Chloroethane	μg/L	400.	80.	<1.5 U	<0.60 U	<4.0 U	<20 U	<8.0 U	<8.0 U
Chloromethane	μg/L	30.	3.	<1.3 U	<0.50 U	<4.0 U	<20 U	<8.0 U	<8.0 U
cis-1,2-Dichloroethene	μg/L	70.	7.	43.	33.	1000.	1000.	960.	950.
Diisopropyl ether	μg/L			<1.0 U	<0.40 U	<2.1 U	<11 U	<4.2 U	<4.2 U
Ethylbenzene	μg/L	700.	140.	<1.5 U	<0.60 U	<1.9 U	26 J	<3.8 U	<3.8 U
Hexachlorobutadiene	μg/L			<1.8 U	<0.70 U		71 J	<14 U	<14 U
Isopropylbenzene	μg/L			<1.3 U	<0.50 U	<6.0 U	41 J	<12 U	<12 U
m & p-Xylene	μg/L	2000.	400.	<3.0 U	<1.2 U	<5.0 U	46 J	<10 U	<10 U
Methyl tert-butyl ether	μg/L	60.	12.	<1.0 U	<0.40 U	<4.0 U	<20 U	<8.0 U	<8.0 U
Methylene chloride	μg/L	5.	0.5	<1.5 U	<0.60 U	<15 U	<75 U		<30 U
Naphthalene	μg/L	100.	10.	<1.3 U	<0.50 U	<4.0 U	61 J	<8.0 U	<8.0 U
n-Butylbenzene	μg/L			<1.3 U	<0.50 U	<2.1 U	92.	<4.2 U	<4.2 U
n-Propylbenzene	μg/L	2000.	400.	<1.3 U	<0.50 U <0.50 U	<2.2 U <2.7 U	53. 21 J	<4.4 U <5.4 U	<4.4 U <5.4 U
o-Xylene p-Isopropyltoluene	μg/L μg/L	2000.	400.	<1.3 U	<0.50 U	<2.7 U	64.	<5.4 U	<5.4 U
sec-Butylbenzene	μg/L μg/L			<1.5 U	<0.50 U	<3.0 U	71.	<6.0 U	<6.0 U
	μg/L μg/L	100.	10.	<1.3 U	<0.50 U	<2.4 U	7 I. 17 J	<4.8 U	<4.8 U
Styrene tert-Butylbenzene	μg/L μg/L	100.	10.	<1.3 U	<0.50 U	<2.0 U	62.	<4.0 U	<4.0 U
Tetrachloroethene	μg/L μg/L	5.	0.05	<1.5 U	<0.60 U	<3.0 U	62. 28 J	<6.0 U	<6.0 U
Tetrahydrofuran	μg/L μg/L	50.	10.	<1.5 U	<6.0 U	<70 U	<350 U	<140 U	<140 U
Toluene	μg/L μg/L	800.	160.	<1.5 U	<0.60 U	<2.7 U	<14 U		<5.4 U
trans-1,2-Dichloroethene	μg/L μg/L	100.	20.	<1.5 U	<0.60 U	280.	260.	230.	240.
Trichloroethene	μg/L	5.	0.5	390.	340.	2900.	2800.	2100.	2100.
	r 5' =	0.2	0.02	<0.40 U	0.50 J	13.	23 J		9.8 J

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				11/03/2015		5/11/2016	5/11/2016	12/10/2014	5/5/2015
	Units	NR140	NR140	MW-105S	MW-105S	MW-105S	MW-105S	MW-105D	MW-105D
Field Parameters	0.110	ES	PAL		DUP		Dup		
Dissolved Oxygen (DO)	mg/L			0.37	0.37	0.00	0.00	0.43	0.00
Oxidation Reduction Potential	millivolts			-48	-47	-17	-17	-83	-69
pH	pH-units			7.24	7.24	7.04	7.04	7.65	7.30
Specific Conductivity	umhos/cm			1910	1910	1530	1520	1050	1420
Temperature	deg-C			20.20	20.15	12.88	12.86		8.53
Turbidity	ntu			9.3	9.5	13.4	13.9	0.	7.3
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L			400.	410.	410.	410.	390.	390.
Chloride (as CI)	mg/L	250.	125.	400.	410.	320.	250.	440.	190.
Iron, total (unfiltered)	mg/L			2.27	2.27	2.27	2.34	7.44	1.78
Iron, dissolved (filtered)	mg/L	0.3	0.15	1.07	1.06	2.84 M	1.51	0.924	1.77
Manganese, total (unfiltered)	μg/L			254.	257.	174.	169.	205.	58.8
Manganese, dissolved (filtered)	μg/L	50.	25.	204.	205.	175.	172.	201.	66.9
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U
Ethane	μg/L			2.4 J	2.5 J	2.3	2.3	<0.60 U	<0.60 U
Ethene	μg/L			<1.2 U	<1.2 U	0.67 J	0.68 J		<0.90 U
Methane	μg/L			310.	330.	240.	230.	250.	59.
Sulfate(as SO4)	mg/L	250.	125.	56.	56.	56.	57.	69.	57.
Total Organic Carbon	mg/L			2.4	2.4	3.	3.8	3.3	2.
VOCs	/1	70	-	0.5.11	0.5.11	5.011	5.011	0.000.11	0.00.11
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<2.5 U	<2.5 U	<5.0 U	<5.0 U		<0.30 U
1,1,1-Trichloroethane	μg/L	200.	40.	<3 U	<3 U	<6.0 U	<6.0 U	<0.030 U	<0.30 U
1,1-Dichloroethane	μg/L	850.	85.	48.	45. 8.7 J	87. 12 J	78. 13 J	11. 1.6	6.2 1.1
1,1-Dichloroethene 1,2,3-Trichlorobenzene	μg/L	7. 	0.7	7.6 J <2.5 U		<5.0 U	<5.0 U		<0.40 U
1,2,4-Trichlorobenzene	μg/L μg/L	70.	14.	<2.5 U	<2.5 U <2 U	<4.0 U	<4.0 U		<0.40 U
1,2,4-Trimethylbenzene	μg/L μg/L	480.	96.	<2.5 U	<2.5 U	<5.0 U	<5.0 U		<0.29 U
1,2-Dichlorobenzene	μg/L μg/L	600.	60.	<3 U	<3 U	<6.0 U	<6.0 U		<0.24 U
1,2-Dichloroethane	μg/L	5.	0.5	<2 U	<2 U	<4.0 U	<4.0 U		<0.24 U
1,2-Dichloropropane	μg/L	5.	0.5	<3 U	<3 U	<6.0 U	<6.0 U		<0.30 U
1,3,5-Trimethylbenzene	μg/L	480.	96.	<3 U	<3 U	<6.0 U	<6.0 U		<0.22 U
1,3-Dichlorobenzene	μg/L	600.	120.	<3 U	<3 U	<6.0 U	<6.0 U	<0.021 U	<0.21 U
2-Chlorotoluene	μg/L			<3 U	<3 U	<6.0 U	<6.0 U		<0.25 U
4-Chlorotoluene	μg/L			<2.5 U	<2.5 U	<5.0 U	<5.0 U		<0.29 U
Acetone	μg/L	9000.	1800.	<45 U	<45 U	2900 B	3100 B	<1.3 UZ	<13 UZ
Benzene	μg/L	5.	0.5	<3 U	<3 U	<6.0 U	<6.0 U	<0.019 U	<0.19 U
Bromobenzene	μg/L			<2 U	<2 U	<4.0 U	<4.0 U	<0.030 U	<0.30 U
Chlorobenzene	μg/L			3.7 J	3 J	<4.0 U	<4.0 U	<0.024 U	<0.24 U
Chloroethane	μg/L	400.	80.	<3 U	<3 U	<6.0 U	<6.0 U		<0.40 U
Chloromethane	μg/L	30.	3.	<2.5 U					
cis-1,2-Dichloroethene	μg/L	70.	7.	710.	680.	980.	920.	110.	69.
Diisopropyl ether	μg/L			<2 U	<2 U	<4.0 U	<4.0 U	<0.021 U	<0.21 U
Ethylbenzene	μg/L	700.	140.	<3 U	<3 U	<6.0 U	<6.0 U		<0.19 U
Hexachlorobutadiene	μg/L			<3.5 U	<3.5 U	<7.0 U	<7.0 U		<0.70 U
Isopropylbenzene	μg/L		400	<2.5 U	<2.5 U	<5.0 U	<5.0 U		<0.60 U
m & p-Xylene Methyl tert-butyl ether	μg/L	2000.	400. 12.	<6 U <2 U	<6 U <2 U	<12 U <4.0 U	<12 U <4.0 U		<0.50 U <0.40 U
Methylene chloride	μg/L μg/L	60. 5.	0.5	<2 U	<2 U	4.0 U	4.0 U	<0.15 U	<0.40 U
Naphthalene	μg/L μg/L	100.	10.	<2.5 U	<2.5 U	<5.0 U	<5.0 U	<0.15 U	<0.40 U
n-Butylbenzene	μg/L μg/L			<2.5 U	<2.5 U	<5.0 U	<5.0 U		<0.40 U
n-Propylbenzene	μg/L			<2.5 U	<2.5 U	<5.0 U	<5.0 U		<0.21 U
o-Xylene	μg/L	2000.	400.	<2.5 U	<2.5 U	<5.0 U	<5.0 U		<0.27 U
p-Isopropyltoluene	μg/L			<3 U	<3 U	<6.0 U	<6.0 U		<0.30 U
sec-Butylbenzene	μg/L			<2.5 U	<2.5 U	<5.0 U	<5.0 U		<0.24 U
Styrene	μg/L	100.	10.	<2.5 U	<2.5 U	<5.0 U	<5.0 U		<0.20 U
tert-Butylbenzene	μg/L			<3 U	<3 U	<6.0 U	<6.0 U		<0.25 U
Tetrachloroethene	μg/L	5.	0.05	<3 U	<3 U	<6.0 U	<6.0 U		<0.30 U
Tetrahydrofuran	μg/L	50.	10.	<30 U	<30 U	<60 U	<60 U		<7.0 U
Toluene	μg/L	800.	160.	<3 U	<3 U	<6.0 U	<6.0 U		<0.27 U
trans-1,2-Dichloroethene	μg/L	100.	20.	110.	110.	160.	140.	1.7	2.2
Trichloroethene	μg/L	5.	0.5	1300.	1200.	1200.	1100.	1.4	1.8
Vinyl chloride	μg/L	0.2	0.02	6.6	5.6	6.4	3.0 J	2.	1.7

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				11/03/2015	5/11/2016	12/10/2014	5/5/2015	11/03/2015	5/11/2016
	Units	NR140 ES	NR140 PAL	MW-105D	MW-105D	MW-105B	MW-105B	MW-105B	MW-105B
Field Parameters									
Dissolved Oxygen (DO)	mg/L			0.29	0.00	3.53	4.60	0.40	0.00
Oxidation Reduction Potential	millivolts			-67	-53	-134	-31	-120	-(
pH	pH-units			7.46	7.16	7.86	7.18	7.71	7.57
Specific Conductivity	umhos/cm			1120	1400	756	945	791	764
Temperature	deg-C			15.53	12.41	7.54	8.91	13.02	18.52
Turbidity	ntu			5.9	48.1	0.	4.7	0.	4.1
Natural Attenuation Parameters Alkalinity, total (as CaCO ₃)	mg/L			390.	420.	370.	350.	380.	390.
Chloride (as Cl)	mg/L	250.	125.	190.	210.	110.	95.	90.	84.
Iron, total (unfiltered)	mg/L			1.52	3.68	2.82	0.311	2.8	0.389
Iron, dissolved (filtered)	mg/L	0.3	0.15	1.36	1.81	2.82	0.263	2.67 M	0.247
Manganese, total (unfiltered)	μg/L			65.6	55.4	519.	461.	394.	372.
Manganese, dissolved (filtered)	μg/L	50.	25.	51.	53.3	502.	489.	313.	225.
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 L
Ethane	μg/L			<0.9 U	<0.40 U	1.1 J	<0.60 U	1.2 J	<0.40 L
Ethene	μg/L			<1.2 U	<0.50 U	<0.90 U	<0.90 U	<1.2 U	<0.50 L
Methane	μg/L			150.	92.	1400.	190.	2600.	470.
Sulfate(as SO4)	mg/L	250.	125.	58.	61.	<1.0 U	<1.0 U	<1 U	0.73 .
Total Organic Carbon VOCs	mg/L			1.3 J	3.8	0.90 J	0.58 J	<0.4 U	1.9
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.5 U	<0.25 U	<0.030 U	<0.030 U	<0.05 U	<0.050 L
1,1,1-Trichloroethane	μg/L	200.	40.	<0.6 U	<0.30 U	<0.030 U	<0.030 U	<0.06 U	<0.060 L
1,1-Dichloroethane	μg/L	850.	85.	77.	5.8	<0.024 U	<0.024 U	<0.06 U	<0.060 L
1,1-Dichloroethene	μg/L	7.	0.7	6.9	1.1 J	<0.024 U	<0.024 U	<0.07 U	<0.070 L
1,2,3-Trichlorobenzene	μg/L			<0.5 U	<0.25 U	<0.040 U	<0.040 U	<0.05 U	<0.050 L
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.4 U	<0.20 U	<0.029 U	<0.029 U	<0.04 U	<0.040 L
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.5 U	<0.25 U	<0.024 U	<0.024 U	<0.05 U	<0.050 L
1,2-Dichlorobenzene 1,2-Dichloroethane	μg/L	600.	60. 0.5	<0.6 U 0.93 J	<0.30 U <0.20 U	<0.025 U <0.024 U	<0.025 U <0.024 U	<0.06 U <0.04 U	<0.060 L <0.040 L
1,2-Dichloropropane	μg/L μg/L	5. 5.	0.5	<0.6 U	<0.20 U	<0.024 U	<0.024 U	<0.04 U	<0.040 U
1,3,5-Trimethylbenzene	μg/L μg/L	480.	96.	<0.6 U	<0.30 U	<0.030 U	<0.030 U	<0.06 U	<0.060 L
1,3-Dichlorobenzene	μg/L	600.	120.	<0.6 U	<0.30 U	<0.021 U	<0.021 U	<0.06 U	<0.060 L
2-Chlorotoluene	μg/L			<0.6 U	<0.30 U	<0.025 U	<0.025 U	<0.06 U	<0.060 L
4-Chlorotoluene	μg/L			<0.5 U	<0.25 U	<0.029 U	<0.029 U	<0.05 U	<0.050 L
Acetone	μg/L	9000.	1800.	<9 U	110 B	<1.3 UZ	<1.3 UZ	<0.9 U	<0.90 L
Benzene	μg/L	5.	0.5	<0.6 U	<0.30 U	<0.019 U	<0.019 U	<0.06 U	<0.060 L
Bromobenzene	μg/L			<0.4 U		<0.030 U	<0.030 U	<0.04 U	<0.040 L
Chlorobenzene	μg/L			<0.4 U	<0.20 U	<0.024 U	<0.024 U	<0.04 U	<0.040 L
Chloroethane	μg/L	400.	80.	1.3 J	<0.30 U	<0.040 U	<0.040 U	<0.06 U	<0.060 L
Chloromethane	μg/L	30.	3.	<0.5 U					
cis-1,2-Dichloroethene	μg/L	70.	7.	510.	63.	0.081 J		0.075 J	<0.060 L
Diisopropyl ether	μg/L	700		<0.4 U	<0.20 U	<0.021 U	<0.021 U	<0.04 U	<0.040 L
Ethylbenzene Hexachlorobutadiene	μg/L μg/L	700. 	140.	<0.6 U <0.7 U	<0.30 U <0.35 U	<0.019 U <0.070 U	<0.019 U <0.070 U	<0.06 U <0.07 U	<0.060 L <0.070 L
Isopropylbenzene	μg/L μg/L			<0.7 U	<0.35 U	<0.070 U	<0.070 U	<0.07 U	<0.070 C
m & p-Xylene	μg/L μg/L	2000.	400.	<1.2 U		<0.050 U	<0.050 U	<0.03 U	<0.030 C
Methyl tert-butyl ether	μg/L	60.	12.	<0.4 U	0.24 J	<0.040 U	<0.040 U	<0.12 U	<0.040 L
Methylene chloride	μg/L	5.	0.5	<0.4 U	9.6	<0.15 U	<0.15 U	<0.04 U	<0.060 L
Naphthalene	μg/L	100.	10.	<0.5 U		<0.040 U	<0.040 U	<0.05 U	<0.050 L
n-Butylbenzene	μg/L			<0.5 U	<0.25 U	<0.021 U	<0.021 U	<0.05 U	<0.050 L
n-Propylbenzene	μg/L			<0.5 U	<0.25 U	<0.022 U	<0.022 U	<0.05 U	<0.050 L
o-Xylene	μg/L	2000.	400.	<0.5 U	<0.25 U	<0.027 U	<0.027 U	<0.05 U	<0.050 L
p-Isopropyltoluene	μg/L			<0.6 U	<0.30 U	<0.030 U	<0.030 U	<0.06 U	<0.060 L
sec-Butylbenzene	μg/L			<0.5 U	<0.25 U	<0.024 U	<0.024 U	<0.05 U	<0.050 L
Styrene	μg/L	100.	10.	<0.5 U		<0.020 U	<0.020 U	<0.05 U	<0.050 L
tert-Butylbenzene	μg/L			<0.6 U	<0.30 U	<0.025 U	<0.025 U	<0.06 U	<0.060 L
Tetrachloroethene	μg/L	5.	0.05	<0.6 U	<0.30 U	<0.030 U	<0.030 U	<0.06 U	<0.060 L
Tetrahydrofuran	μg/L	50.	10.	<6 U	3.1 JZ,B	<0.70 U	<0.70 U	<0.6 U	0.67 JB,Z
Toluene	μg/L	800.	160.	<0.6 U	<0.30 U	<0.027 U	<0.027 U	<0.06 U	<0.060 L
trans-1,2-Dichloroethene	μg/L	100.	20.	36.	1.6	<0.040 U	<0.040 U	<0.06 U	<0.060 L
Trichloroethene Vinyl chloride	μg/L	5.	0.5	3.5	0.56	0.056 J	<0.020 U	<0.03 U	<0.030 L
VIIIVI CHIONOE	μg/L	0.2	0.02	8.3	1.7	<0.019 U	<0.019 U	0.028 J	<0.016 L

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

			e Sampled	12/10/2014	5/5/2015	11/05/2015	5/18/2016	12/11/2014	5/6/2015
	Units	NR140 ES	NR140 PAL	TW-202I	TW-202I	TW-202I	TW-202I	OW-6	OW-6
Field Parameters									
Dissolved Oxygen (DO)	mg/L			2.63	1.40	0.37	2.55	0.53	0.38
Oxidation Reduction Potential	millivolts			-18	-14	-10	55	-119	-34
рН	pH-units			7.55	7.48	6.86	7.02	7.34	6.74
Specific Conductivity	umhos/cm			1040	1180	980	1190	731	743
Temperature	deg-C			8.66	11.28	14.54	11.28	8.73	9.88
Turbidity	ntu			8.31	24.3	12.2	0.	3.73	1.2
Natural Attenuation Parameters									
Alkalinity, total (as CaCO ₃)	mg/L			350.	310.	350.	370.	220.	260.
Chloride (as CI)	mg/L	250.	125.	230.	290.	230.	260.	160.	160.
Iron, total (unfiltered)	mg/L			0.258	0.29	0.325	0.169	1.16	0.299
Iron, dissolved (filtered)	mg/L	0.3	0.15	0.103	0.0537	0.107	0.126	0.477	0.177
Manganese, total (unfiltered)	μg/L			563.	543.	591.	486.	46.4	85.1
Manganese, dissolved (filtered)	μg/L	50.	25.	410.	468.	515.	448.	41.3	72.4
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U
Ethane	μg/L			<0.60 U	<0.60 U	<0.9 U	<0.40 U		<0.60 U
Ethene	μg/L			<0.90 U	<0.90 U	<1.2 U	<0.50 U		<0.90 U
Methane	μg/L			3.1	5.	2.6	4.4	99.	210.
Sulfate(as SO4)	mg/L	250.	125.	55.	44.	39.	51.	9.2	5.6
Total Organic Carbon VOCs	mg/L			2.9	2.	0.76 J	3.6	0.99 JY	0.4 J
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.030 U	<0.030 U	<0.05 U	<0.050 U	<0.030 U	<0.030 U
1.1.1-Trichloroethane	μg/L	200.	40.	0.32	0.29	0.27	0.24	<0.030 U	<0.030 U
1,1-Dichloroethane	μg/L	850.	85.	0.1	0.1	0.082 J	0.13 J	0.082	0.087
1,1-Dichloroethene	μg/L	7.	0.7	0.08 J	0.067 J	0.072 J	0.092 J	<0.024 U	<0.024 U
1,2,3-Trichlorobenzene	μg/L			<0.040 U	<0.040 U	<0.05 U	<0.050 U		<0.040 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.029 U	<0.029 U	<0.04 U	<0.040 U	<0.029 U	<0.029 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.024 U	<0.024 U		<0.050 U		<0.024 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.025 U	<0.025 U	<0.06 U	<0.060 U	<0.021 U	<0.025 U
1,2-Dichloroethane	μg/L	5.	0.5	<0.024 U	<0.024 U	<0.04 U	<0.040 U	0.025 J	0.029 J
1,2-Dichloropropane	μg/L	5.	0.5	<0.030 U	<0.030 U	<0.06 U	<0.060 U		<0.030 U
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.022 U	<0.022 U	<0.06 U	<0.060 U	<0.022 U	<0.022 U
1,3-Dichlorobenzene	μg/L	600.	120.	0.11	0.046 J	<0.06 U	<0.060 U	0.14	0.056 J
2-Chlorotoluene	μg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U	<0.025 U	<0.025 U
4-Chlorotoluene	μg/L			<0.029 U	<0.029 U	<0.05 U	<0.050 U	<0.029 U	<0.029 U
Acetone	μg/L	9000.	1800.	<1.3 UZ	<1.3 UZ	<0.9 U	<0.90 U	<1.3 UZ	<1.3 UZ
Benzene	μg/L	5.	0.5	<0.019 U	<0.019 U	<0.06 U	<0.060 U	<0.019 U	<0.019 U
Bromobenzene	μg/L			<0.030 U	<0.030 U	<0.04 U	<0.040 U	<0.030 U	<0.030 U
Chlorobenzene	μg/L			0.55	0.54	0.61	0.45	<0.024 U	<0.024 U
Chloroethane	μg/L	400.	80.	<0.040 U	<0.040 U	<0.06 U	<0.060 U	<0.040 U	<0.040 U
Chloromethane	μg/L	30.	3.	0.06 JB	<0.040 U	<0.05 U	0.13 J	0.08 JB	<0.040 U
cis-1,2-Dichloroethene	μg/L	70.	7.	11.	12.	8.6	19.	0.056 J	0.12
Diisopropyl ether	μg/L			<0.021 U	<0.021 U	<0.04 U	<0.040 U	<0.021 U	<0.021 U
Ethylbenzene	μg/L	700.	140.	<0.019 U	<0.019 U	<0.06 U	<0.060 U		<0.019 U
Hexachlorobutadiene	μg/L			<0.070 U	<0.070 U	<0.07 U	<0.070 U		<0.070 U
Isopropylbenzene	μg/L			<0.060 U	<0.060 U	<0.05 U	<0.050 U		<0.060 U
m & p-Xylene	μg/L	2000.	400.	<0.050 U	<0.050 U	<0.12 U	<0.12 U		<0.050 U
Methyl tert-butyl ether	μg/L	60.	12.	<0.040 U	<0.040 U	<0.04 U	<0.040 U	<0.040 U	<0.040 U
Methylene chloride	μg/L	5.	0.5	<0.15 U	<0.15 U	<0.06 U	<0.060 U		<0.15 U
Naphthalene	μg/L	100.	10.	<0.040 U	<0.040 U		<0.050 U		<0.040 U
n-Butylbenzene	μg/L			<0.021 U	<0.021 U	<0.05 U	<0.050 U	<0.021 U	<0.021 U
n-Propylbenzene	μg/L			<0.022 U	<0.022 U	<0.05 U	<0.050 U	<0.022 U	<0.022 U
o-Xylene	μg/L	2000.	400.	<0.027 U	<0.027 U	<0.05 U	<0.050 U	<0.027 U	<0.027 U
p-Isopropyltoluene	μg/L			<0.030 U	<0.030 U	<0.06 U	<0.060 U	<0.030 U	<0.030 U
sec-Butylbenzene	μg/L			<0.024 U	<0.024 U	<0.05 U	<0.050 U		<0.024 U
Styrene	μg/L	100.	10.	<0.020 U	<0.020 U	<0.05 U	<0.050 U	<0.020 U	<0.020 U
tert-Butylbenzene	μg/L			<0.025 U	<0.025 U	<0.06 U	<0.060 U		<0.025 U
Tetrachloroethene	μg/L	5.	0.05	<0.030 U	<0.030 U	<0.06 U	<0.060 U		<0.030 U
Tetrahydrofuran	μg/L	50.	10.	<0.70 U	<0.70 U	<0.6 U	<0.60 U	<0.70 U	<0.70 U
Toluene	μg/L	800.	160.	<0.027 U	<0.027 U	<0.06 U	<0.060 U	<0.027 U	<0.027 U
trans-1,2-Dichloroethene	μg/L	100.	20.	1.	1.	0.98	1.5	<0.040 U	<0.040 U
Trichloroethene	μg/L	5.	0.5	13.	12.	11.	12.	0.042 J	<0.020 U
Vinyl chloride	μg/L	0.2	0.02	0.023 J	0.023 J	0.022 J	<0.016 U	<0.019 U	<0.019 U

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Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

				11/04/2015	5/18/2016	12/15/2014	5/7/2015
	Units	NR140 ES	NR140 PAL	OW-06	OW-6	MW-14DR	MW-14DR
Field Parameters							
Dissolved Oxygen (DO)	mg/L			0.24	3.40	11.86	0.00
Oxidation Reduction Potential	millivolts			-150	163	94	60
рН	pH-units			9.51	9.18	7.57	6.69
Specific Conductivity	umhos/cm			485	637	917	84
Temperature	deg-C			18.83	12.40	10.03	11.4
Turbidity	ntu			0.	0.	79.5	0.4
Natural Attenuation Parameters				400	0.40	240	200
Alkalinity, total (as CaCO ₃) Chloride (as Cl)	mg/L mg/L	250.	 125.	190. 120.	240. 130.	310. 140 M	290. 170.
Iron, total (unfiltered)	mg/L	230.	123.	0.13	0.416	0.252 M	0.067
Iron, dissolved (filtered)	mg/L	0.3	0.15	0.0923	<0.010 U	<0.010 U	0.0233
Manganese, total (unfiltered)	μg/L			9.9	16.6	5.2 M	205.
Manganese, dissolved (filtered)	μg/L	50.	25.	6.3	4.8 J	123.	113.
Acetylene	μg/L			<0.23 U	<0.23 U	<0.23 U	<0.23 l
Ethane	μg/L			<0.9 U	<0.40 U	<0.60 U	<0.60 l
Ethene	μg/L			<1.2 U	<0.50 U	<0.90 U	<0.90 l
Methane	μg/L			36.	54.	0.37 J	<0.30 l
Sulfate(as SO4)	mg/L	250.	125.	8.2	9.7	40.	36.
Total Organic Carbon	mg/L			<0.4 U	0.53 J	5.	1.7
<u>VOCs</u>							
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.05 U	<0.050 U	<0.030 U	<0.030 l
1,1,1-Trichloroethane	μg/L	200.	40.	<0.06 U	<0.060 U	<0.030 U	<0.030 l
1,1-Dichloroethane	μg/L	850. 7.	85. 0.7	<0.06 U <0.07 U	<0.060 U <0.070 U	<0.024 U <0.024 U	<0.024 l <0.024 l
1,1-Dichloroethene 1,2,3-Trichlorobenzene	μg/L μg/L			<0.07 U	<0.070 U	<0.024 U	<0.024 t
1,2,4-Trichlorobenzene	μg/L μg/L	70.	14.	<0.03 U	<0.030 U	<0.040 U	<0.040 t
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.04 U	<0.050 U	<0.029 U	<0.029 l
1,2-Dichlorobenzene	μg/L	600.	60.	<0.06 U	<0.060 U	<0.025 U	<0.025 l
1,2-Dichloroethane	μg/L	5.	0.5	<0.04 U	<0.040 U	<0.024 U	<0.024 \
1,2-Dichloropropane	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.030 U	<0.030 l
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.06 U	<0.060 U	<0.022 U	<0.022 l
1,3-Dichlorobenzene	μg/L	600.	120.	0.075 J	0.091 J	<0.021 U	<0.021 l
2-Chlorotoluene	μg/L			<0.06 U	<0.060 U	<0.025 U	<0.025 l
4-Chlorotoluene	μg/L			<0.05 U	<0.050 U	<0.029 U	<0.029 l
Acetone	μg/L	9000.	1800.	<0.9 U	<0.90 U	<1.3 UZ	<1.3 l
Benzene	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.019 U	<0.019 l
Bromobenzene	μg/L			<0.04 U	<0.040 U	<0.030 U	<0.030 l
Chlorobenzene	μg/L	400		<0.04 U	<0.040 U	<0.024 U	<0.024 \
Chloroethane Chloromethane	μg/L	400. 30.	80. 3.	<0.06 U <0.05 U	<0.060 U 0.17 J	<0.040 U 0.081 JB	<0.040 l <0.040 l
cis-1,2-Dichloroethene	μg/L μg/L	70.	7.	<0.05 U	<0.060 U	0.081 JB 0.074 J	0.053
Diisopropyl ether	μg/L μg/L	70.		<0.06 U	<0.040 U	<0.074 J	<0.033 l
Ethylbenzene	μg/L μg/L	700.	140.	<0.04 U	<0.040 U	<0.021 U	<0.021 C
Hexachlorobutadiene	μg/L			<0.07 U	<0.070 U	<0.070 U	<0.070 l
Isopropylbenzene	μg/L			<0.05 U	<0.050 U	<0.060 U	<0.060 l
m & p-Xylene	μg/L	2000.	400.	<0.12 U	<0.12 U	<0.050 U	<0.050 l
Methyl tert-butyl ether	μg/L	60.	12.	<0.04 U	<0.040 U	<0.040 U	<0.040 l
Methylene chloride	μg/L	5.	0.5	<0.06 U	<0.060 U	<0.15 U	<0.15 l
Naphthalene	μg/L	100.	10.	<0.05 U	<0.050 U	<0.040 U	<0.040 l
n-Butylbenzene	μg/L			<0.05 U	<0.050 U	<0.021 U	<0.021 l
n-Propylbenzene	μg/L			<0.05 U	<0.050 U	<0.022 U	<0.022 l
o-Xylene	μg/L	2000.	400.	<0.05 U	<0.050 U	<0.027 U	<0.027 l
p-Isopropyltoluene	μg/L			<0.06 U	<0.060 U	<0.030 U	<0.030 (
sec-Butylbenzene	μg/L			<0.05 U	<0.050 U	<0.024 U	<0.024 (
Styrene tort Butulbanzana	μg/L	100.	10.	<0.05 U	<0.050 U	<0.020 U	<0.020
tert-Butylbenzene	μg/L	 5		<0.06 U	<0.060 U	<0.025 U	<0.025
Tetrachloroethene Tetrahydrofuran	μg/L	5.	0.05	<0.06 U	<0.060 U	<0.030 U	<0.030
Tetrahydrofuran Toluene	μg/L μg/L	50. 800.	10. 160.	<0.6 U <0.06 U	<0.60 U	<0.70 U <0.027 U	<0.70 l <0.027 l
trans-1,2-Dichloroethene	μg/L μg/L	100.	20.	<0.06 U	<0.060 U	<0.027 U	<0.027 (<0.040 (
Trichloroethene	μg/L μg/L	5.	0.5	<0.00 U	<0.000 U	0.3	0.19
Vinyl chloride	μg/L	0.2	0.02	<0.016 U	<0.016 U	<0.019 U	<0.019 l



Table 3. Groundwater Quality Data, Oconomowoc Electroplating Company Inc. (OECI) Superfund Site Monitoring Wells

Notes:

mg/L: milligrams per liter

umhos/cm: micromhos per centimeter

deg-C: degress Celsius

ntu: nephelometric turbidity units

μg/L: micrograms per liter

NR140 ES: Chapter NR140 Wisconsin Administrative Enforcement Standard

NR140 PAL: Chapter NR140 Wisconsin Administrative Code Preventive Action Limit

Dup: Duplicate sample

Laboratory Quality Control Qualifiers

B: Analyte detected in the associated Method Blank.

D: Diluted Out.

H: Holding time exceeded.

J: Estimated value.

M: Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.

Q: Laboratory Control Sample outside acceptance limits.

U: Analyte concentration was below detection limit.

Y: Replicate/Duplicate precision outside acceptance limits.

Z: Specified calibration criteria was not met.

Table 4. Residential Wells Groundwater Sample Results

			ate Sampled	12/9/2014	11/4/2015	11/3/2015
	Units	NR140 ES	NR140 PAL	PW-03	PW-03	PW-04
VOCs						
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.030 U	<0.05 U	<0.05 U
1,1,1-Trichloroethane	μg/L	200.	40.	<0.030 U	<0.06 U	<0.06 U
1,1-Dichloroethane	μg/L	850.	85.	<0.024 U	<0.06 U	<0.06 U
1,1-Dichloroethene	μg/L	7.	0.7	<0.024 U	<0.07 U	<0.07 U
1,2,3-Trichlorobenzene	μg/L			<0.040 U	<0.05 U	<0.05 U
1,2,3-Trichloropropane	μg/L	60.	12.	<0.080 U	<0.04 U	<0.04 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.029 U	<0.04 U	<0.04 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.024 U	<0.05 U	<0.05 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.025 U	<0.06 U	<0.06 U
1,2-Dichloroethane	μg/L	5.	0.5	0.031 J	<0.04 U	<0.04 U
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.022 U	<0.06 U	<0.06 U
1,3-Dichlorobenzene	μg/L	600.	120.	<0.021 U	<0.06 U	<0.06 U
2-Chlorotoluene	μg/L			<0.025 U	<0.06 U	<0.06 U
4-Chlorotoluene	μg/L			<0.029 U	<0.05 U	<0.05 U
Acetone	μg/L	9000.	1800.	<1.3 UZ	<0.9 U	<0.9 U
Benzene	μg/L	5.	0.5	<0.019 U	<0.06 U	<0.06 U
Bromobenzene	μg/L			<0.030 U	<0.04 U	<0.04 U
Chlorobenzene	μg/L			<0.024 U	<0.04 U	<0.04 U
Chloroethane	μg/L	400.	80.	<0.040 U	<0.06 U	<0.06 U
Chloromethane	μg/L	30.	3.	0.054 JB	<0.05 U	<0.05 U
cis-1,2-Dichloroethene	μg/L	70.	7.	1.3	1.8	1.2
Diisopropyl ether	μg/L			<0.021 U	<0.04 U	<0.04 U
Ethylbenzene	μg/L	700.	140.	<0.019 U	<0.06 U	<0.06 U
Hexachlorobutadiene	μg/L			<0.070 U	<0.07 U	<0.07 U
Isopropylbenzene	μg/L			<0.060 U	<0.05 U	<0.05 U
m & p-Xylene	μg/L	2000.	400.	<0.050 U	<0.12 U	<0.12 U
Methyl tert-butyl ether	μg/L	60.	12.	0.57	0.6	0.48
Methylene chloride	μg/L	5.	0.5	<0.15 U	<0.06 U	<0.06 U
Naphthalene	μg/L	100.	10.	<0.040 U	<0.05 U	<0.05 U
n-Butylbenzene	μg/L			<0.021 U	<0.05 U	<0.05 U
n-Propylbenzene	μg/L			<0.022 U	<0.05 U	<0.05 U
o-Xylene	μg/L	2000.	400.	<0.027 U	<0.05 U	<0.05 U
p-Isopropyltoluene	μg/L			<0.030 U	<0.06 U	<0.06 U
sec-Butylbenzene	μg/L			<0.024 U	<0.05 U	<0.05 U
Styrene	μg/L	100.	10.	<0.020 U	<0.05 U	<0.05 U
tert-Butylbenzene	μg/L			<0.025 U	<0.06 U	<0.06 U
Tetrachloroethene	μg/L	5.	0.05	<0.030 U	<0.06 U	<0.06 U
Toluene	μg/L	800.	160.	<0.027 U	<0.06 U	<0.06 U
trans-1,2-Dichloroethene	μg/L	100.	20.	0.074 J	0.088 J	0.066 J
Trichloroethene	μg/L	5.	0.5	0.62	0.69	0.086 J
Vinyl chloride	μg/L	0.2	0.02	<0.019 U	<0.016 U	<0.016 U



Table 4. Residential Wells Groundwater Sample Results

			ate Sampled	12/9/2014	11/5/2015	12/9/2014
	Units	NR140 ES	NR140 PAL	PW-07	PW-07	PW-08
VOCs						
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.030 U	<0.05 U	<0.030 U
1,1,1-Trichloroethane	μg/L	200.	40.	<0.030 U	<0.06 U	<0.030 U
1,1-Dichloroethane	μg/L	850.	85.	<0.024 U	<0.06 U	<0.024 U
1,1-Dichloroethene	μg/L	7.	0.7	<0.024 U	<0.07 U	<0.024 U
1,2,3-Trichlorobenzene	μg/L			<0.040 U	<0.05 U	<0.040 U
1,2,3-Trichloropropane	μg/L	60.	12.	<0.080 U	<0.04 U	<0.080 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.029 U	<0.04 U	<0.029 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.024 U	<0.05 U	<0.024 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.025 U	<0.06 U	<0.025 U
1,2-Dichloroethane	μg/L	5.	0.5	<0.024 U	<0.04 U	<0.024 U
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.022 U	<0.06 U	<0.022 U
1,3-Dichlorobenzene	μg/L	600.	120.	<0.021 U	<0.06 U	<0.021 U
2-Chlorotoluene	μg/L			<0.025 U	<0.06 U	<0.025 U
4-Chlorotoluene	μg/L			<0.029 U	<0.05 U	<0.029 U
Acetone	μg/L	9000.	1800.	<1.3 UZ	<0.9 U	<1.3 UZ
Benzene	μg/L	5.	0.5	<0.019 U	<0.06 U	<0.019 U
Bromobenzene	μg/L			<0.030 U	<0.04 U	<0.030 U
Chlorobenzene	μg/L			<0.024 U	<0.04 U	<0.024 U
Chloroethane	μg/L	400.	80.	<0.040 U	<0.06 U	<0.040 U
Chloromethane	μg/L	30.	3.	0.056 JB	<0.05 U	0.06 JB
cis-1,2-Dichloroethene	μg/L	70.	7.	0.34	3.	2.2
Diisopropyl ether	μg/L			<0.021 U	<0.04 U	<0.021 U
Ethylbenzene	μg/L	700.	140.	<0.019 U	<0.06 U	<0.019 U
Hexachlorobutadiene	μg/L			<0.070 U	<0.07 U	<0.070 U
Isopropylbenzene	μg/L			<0.060 U	<0.05 U	<0.060 U
m & p-Xylene	μg/L	2000.	400.	<0.050 U	<0.12 U	<0.050 U
Methyl tert-butyl ether	μg/L	60.	12.	0.33	0.5	0.57
Methylene chloride	μg/L	5.	0.5	<0.15 U	<0.06 U	<0.15 U
Naphthalene	μg/L	100.	10.	<0.040 U	<0.05 U	<0.040 U
n-Butylbenzene	μg/L			<0.021 U	<0.05 U	<0.021 U
n-Propylbenzene	μg/L			<0.022 U	<0.05 U	<0.022 U
o-Xylene	μg/L	2000.	400.	<0.027 U	<0.05 U	<0.027 U
p-Isopropyltoluene	μg/L			<0.030 U	<0.06 U	<0.030 U
sec-Butylbenzene	μg/L			<0.024 U	<0.05 U	<0.024 U
Styrene	μg/L	100.	10.	<0.020 U	<0.05 U	<0.020 U
tert-Butylbenzene	μg/L			<0.025 U	<0.06 U	<0.025 U
Tetrachloroethene	μg/L	5.	0.05	<0.030 U	<0.06 U	<0.030 U
Toluene	μg/L	800.	160.	<0.027 U	<0.06 U	<0.027 U
trans-1,2-Dichloroethene	μg/L	100.	20.	<0.040 U	0.13 J	0.094 J
Trichloroethene	μg/L	5.	0.5	<0.020 U	0.031 J	0.083
Vinyl chloride	μg/L	0.2	0.02	0.05 J	0.053	0.045 J



Table 4. Residential Wells Groundwater Sample Results

			ate Sampled	11/5/2015	12/9/2014	11/3/2015
	Units	NR140 ES	NR140 PAL	PW-08	PW-09	PW-09
VOCs						
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.05 U	<0.030 U	<0.05 U
1,1,1-Trichloroethane	μg/L	200.	40.	<0.06 U	<0.030 U	<0.06 U
1,1-Dichloroethane	μg/L	850.	85.	<0.06 U	<0.024 U	<0.06 U
1,1-Dichloroethene	μg/L	7.	0.7	<0.07 U	<0.024 U	<0.07 U
1,2,3-Trichlorobenzene	μg/L			<0.05 U	<0.040 U	<0.05 U
1,2,3-Trichloropropane	μg/L	60.	12.	<0.04 U	<0.080 U	<0.04 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.04 U	<0.029 U	<0.04 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.05 U	<0.024 U	<0.05 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.06 U	<0.025 U	<0.06 U
1,2-Dichloroethane	μg/L	5.	0.5	<0.04 U	0.041 J	0.048 J
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.06 U	<0.022 U	<0.06 U
1,3-Dichlorobenzene	μg/L	600.	120.	<0.06 U	<0.021 U	<0.06 U
2-Chlorotoluene	μg/L			<0.06 U	<0.025 U	<0.06 U
4-Chlorotoluene	μg/L			<0.05 U	<0.029 U	<0.05 U
Acetone	μg/L	9000.	1800.	<0.9 U	<1.3 UZ	<0.9 U
Benzene	μg/L	5.	0.5	<0.06 U	<0.019 U	<0.06 U
Bromobenzene	μg/L			<0.04 U	<0.030 U	<0.04 U
Chlorobenzene	μg/L			<0.04 U	<0.024 U	<0.04 U
Chloroethane	μg/L	400.	80.	<0.06 U	<0.040 U	<0.06 U
Chloromethane	μg/L	30.	3.	<0.05 U	0.055 JB	<0.05 U
cis-1,2-Dichloroethene	μg/L	70.	7.	2.3	5.6	6.
Diisopropyl ether	μg/L			<0.04 U	<0.021 U	<0.04 U
Ethylbenzene	μg/L	700.	140.	<0.06 U	<0.019 U	<0.06 U
Hexachlorobutadiene	μg/L			<0.07 U	<0.070 U	<0.07 U
Isopropylbenzene	μg/L			<0.05 U	<0.060 U	<0.05 U
m & p-Xylene	μg/L	2000.	400.	<0.12 U	<0.050 U	<0.12 U
Methyl tert-butyl ether	μg/L	60.	12.	0.57	0.63	0.62
Methylene chloride	μg/L	5.	0.5	<0.06 U	<0.15 U	<0.06 U
Naphthalene	μg/L	100.	10.	<0.05 U	<0.040 U	<0.05 U
n-Butylbenzene	μg/L			<0.05 U	<0.021 U	<0.05 U
n-Propylbenzene	μg/L			<0.05 U	<0.022 U	<0.05 U
o-Xylene	μg/L	2000.	400.	<0.05 U	<0.027 U	<0.05 U
p-Isopropyltoluene	μg/L			<0.06 U	<0.030 U	<0.06 U
sec-Butylbenzene	μg/L			<0.05 U	<0.024 U	<0.05 U
Styrene	μg/L	100.	10.	<0.05 U	<0.020 U	<0.05 U
tert-Butylbenzene	μg/L			<0.06 U	<0.025 U	<0.06 U
Tetrachloroethene	μg/L	5.	0.05	<0.06 U	<0.030 U	<0.06 U
Toluene	μg/L	800.	160.	<0.06 U	0.088 J	0.083 J
trans-1,2-Dichloroethene	μg/L	100.	20.	0.1 J	0.23	0.26
Trichloroethene	μg/L	5.	0.5	0.069 J	0.06 J	0.068 J
Vinyl chloride	μg/L	0.2	0.02	0.043 J	0.056 J	



Table 4. Residential Wells Groundwater Sample Results

Table 4. Nesidential Wells			Date Sampled		11/5/2015	12/9/2014
	Units	NR140 ES	NR140 PAL	PW-10	PW-10	PW-11
<u>VOCs</u>						
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.030 U	<0.05 U	<0.030 U
1,1,1-Trichloroethane	μg/L	200.	40.	<0.030 U	<0.06 U	<0.030 U
1,1-Dichloroethane	μg/L	850.	85.	<0.024 U	<0.06 U	<0.024 U
1,1-Dichloroethene	μg/L	7.	0.7	<0.024 U	<0.07 U	<0.024 U
1,2,3-Trichlorobenzene	μg/L			<0.040 U	<0.05 U	<0.040 U
1,2,3-Trichloropropane	μg/L	60.	12.	<0.080 U	<0.04 U	<0.080 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.029 U	<0.04 U	<0.029 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.024 U	<0.05 U	<0.024 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.025 U	<0.06 U	<0.025 U
1,2-Dichloroethane	μg/L	5.	0.5	<0.024 U	<0.04 U	0.044 J
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.022 U	<0.06 U	<0.022 U
1,3-Dichlorobenzene	μg/L	600.	120.	<0.021 U	<0.06 U	<0.021 U
2-Chlorotoluene	μg/L			<0.025 U	<0.06 U	<0.025 U
4-Chlorotoluene	μg/L			<0.029 U	<0.05 U	<0.029 U
Acetone	μg/L	9000.	1800.	<1.3 UZ	<0.9 U	<1.3 UZ
Benzene	μg/L	5.	0.5	<0.019 U	<0.06 U	<0.019 U
Bromobenzene	μg/L			<0.030 U	<0.04 U	<0.030 U
Chlorobenzene	μg/L			<0.024 U	<0.04 U	<0.024 U
Chloroethane	μg/L	400.	80.	<0.040 U	<0.06 U	<0.040 U
Chloromethane	μg/L	30.	3.	0.046 JB	<0.05 U	0.08 JB
cis-1,2-Dichloroethene	μg/L	70.	7.	0.097 J	0.11 J	1.7
Diisopropyl ether	μg/L			<0.021 U	<0.04 U	0.13
Ethylbenzene	μg/L	700.	140.	<0.019 U	<0.06 U	<0.019 U
Hexachlorobutadiene	μg/L			<0.070 U	<0.07 U	<0.070 U
Isopropylbenzene	μg/L			<0.060 U	<0.05 U	<0.060 U
m & p-Xylene	μg/L	2000.	400.	<0.050 U	<0.12 U	<0.050 U
Methyl tert-butyl ether	μg/L	60.	12.	0.39	0.43	1.
Methylene chloride	μg/L	5.	0.5	<0.15 U	<0.06 U	<0.15 U
Naphthalene	μg/L	100.	10.	<0.040 U	<0.05 U	<0.040 U
n-Butylbenzene	μg/L			<0.021 U	<0.05 U	<0.021 U
n-Propylbenzene	μg/L			<0.022 U	<0.05 U	<0.022 U
o-Xylene	μg/L	2000.	400.	<0.027 U	<0.05 U	<0.027 U
p-Isopropyltoluene	μg/L			<0.030 U	<0.06 U	<0.030 U
sec-Butylbenzene	μg/L			<0.024 U	<0.05 U	<0.024 U
Styrene	μg/L	100.	10.	<0.020 U	<0.05 U	<0.020 U
tert-Butylbenzene	μg/L			<0.025 U	<0.06 U	<0.025 U
Tetrachloroethene	μg/L	5.	0.05	<0.030 U	<0.06 U	<0.030 U
Toluene	μg/L	800.	160.	<0.027 U	<0.06 U	<0.027 U
trans-1,2-Dichloroethene	μg/L	100.	20.	<0.040 U	<0.06 U	0.12 J
Trichloroethene	μg/L	5.	0.5	<0.020 U	<0.03 U	<0.020 U
Vinyl chloride	μg/L	0.2	0.02	<0.019 U	0.021 J	0.039 J



Table 4. Residential Wells Groundwater Sample Results

	Date Sampled 11/6/2015			
	Units	NR140 ES	NR140 PAL	PW-11
<u>VOCs</u>				
1,1,1,2-Tetrachloroethane	μg/L	70.	7.	<0.05 U
1,1,1-Trichloroethane	μg/L	200.	40.	<0.06 U
1,1-Dichloroethane	μg/L	850.	85.	<0.06 U
1,1-Dichloroethene	μg/L	7.	0.7	<0.07 U
1,2,3-Trichlorobenzene	μg/L			<0.05 U
1,2,3-Trichloropropane	μg/L	60.	12.	<0.04 U
1,2,4-Trichlorobenzene	μg/L	70.	14.	<0.04 U
1,2,4-Trimethylbenzene	μg/L	480.	96.	<0.05 U
1,2-Dichlorobenzene	μg/L	600.	60.	<0.06 U
1,2-Dichloroethane	μg/L	5.	0.5	0.065 J
1,3,5-Trimethylbenzene	μg/L	480.	96.	<0.06 U
1,3-Dichlorobenzene	μg/L	600.	120.	<0.06 U
2-Chlorotoluene	μg/L			<0.06 U
4-Chlorotoluene	μg/L			<0.05 U
Acetone	μg/L	9000.	1800.	<0.9 U
Benzene	μg/L	5.	0.5	<0.06 U
Bromobenzene	μg/L			<0.04 U
Chlorobenzene	μg/L			<0.04 U
Chloroethane	μg/L	400.	80.	<0.06 U
Chloromethane	μg/L	30.	3.	<0.05 U
cis-1,2-Dichloroethene	μg/L	70.	7.	1.9
Diisopropyl ether	μg/L			0.13 J
Ethylbenzene	μg/L	700.	140.	<0.06 U
Hexachlorobutadiene	μg/L			<0.07 U
Isopropylbenzene	μg/L			<0.05 U
m & p-Xylene	μg/L	2000.	400.	<0.12 U
Methyl tert-butyl ether	μg/L	60.	12.	1.
Methylene chloride	μg/L	5.	0.5	<0.06 U
Naphthalene	μg/L	100.	10.	<0.05 U
n-Butylbenzene	μg/L			<0.05 U
n-Propylbenzene	μg/L			<0.05 U
o-Xylene	μg/L	2000.	400.	<0.05 U
p-Isopropyltoluene	μg/L			<0.06 U
sec-Butylbenzene	μg/L			<0.05 U
Styrene	μg/L	100.	10.	<0.05 U
tert-Butylbenzene	μg/L			<0.06 U
Tetrachloroethene	μg/L	5.	0.05	<0.06 U
Toluene	μg/L	800.	160.	<0.06 U
trans-1,2-Dichloroethene	μg/L	100.	20.	0.13 J
Trichloroethene	μg/L	5.	0.5	<0.03 U
Vinyl chloride	μg/L	0.2	0.02	0.04 J



Table 4. Residential Wells Groundwater Sample Results

Notes:

mg/L: milligrams per liter

umhos/cm: micromhos per centimeter

deg-C: degress Celsius

ntu: nephelometric turbidity units µg/L: micrograms per liter

NR140 ES: Chapter NR140 Wisconsin Administrative Enforcement Standard

NR140 PAL: Chapter NR140 Wisconsin Administrative Code Preventive Action Limit

Laboratory Quality Control Qualifiers

B: Analyte detected in the associated Method Blank.

- J: Estimated value.
- M: Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
- U: Analyte concentration was below detection limit.
- Y: Replicate/Duplicate precision outside acceptance limits.
- Z: Specified calibration criteria was not met.

Table 5. Natural Biodegradation Potential Scores For May 2015 and May 2016 Sampling Event OECI Superfund Site Monitoring Wells Groundwater Samples

Event OECI Superfund Site Monitor					
		Biodegradation Potential Scores			
		May 2015	May 2016		
	Well	Sampling	Sampling		
Well ID	Туре	Event	Event		
MW-1S	WT	4.	8.		
MW-1D	BR	14.	11.		
MW-2D	BR	0.	8.		
MW-3D	BR	8.	9.		
MW-4S	WT	3.	6.		
MW-5D	MID	10.	10.		
MW-9S	WT	4.	6.		
MW-12S	WT	8.	8.		
MW-12D	MID	12.	12.		
MW-12B	BR	-3.	0.		
MW-13S	WT	-1.	3.		
MW-13D	MID	10.	10.		
MW-15S	WT	-1.	4.		
MW-15D	MID	6.	5.		
MW-15B	BR	10.	12.		
MW-16S	WT	7.	12.		
MW-101S	WT	-3.	2.		
MW-101B	BR	7.	7.		
MW-102S	WT	-3.	-3.		
MW-102D	MID	8.	13.		
MW-103S	WT	7.	5.		
MW-103D	MID	7.	9.		
MW-105S	WT	13.	13.		
MW-105D	MID	13.	13.		
MW-105B	BR	4.	8.		
TW-202I	MID	2.	- 1.		
OW-6	BR	10.	1.		
MW-14DR	MID	5.	- 3.		

Total Points	Interpretation
0-5	Inadequate evidence for biodegradation.
6-14	Limited evidence for biodegradation.
15-20	Adequate evidence for biodegradation.
>20	Strong evidence for biodegradation of chlorinated solvents.

Notes:

WT = Water table (shallow) monitoring well

MID = Mid-depth unconsolidated deposits monitoring well

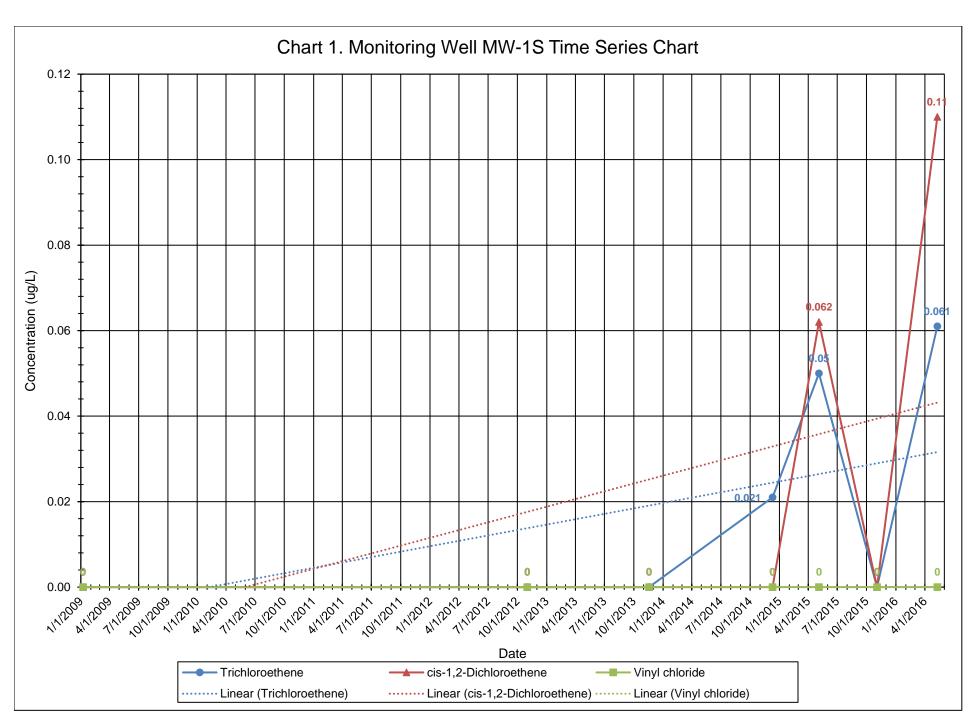
BR = Bedrock monitoring well

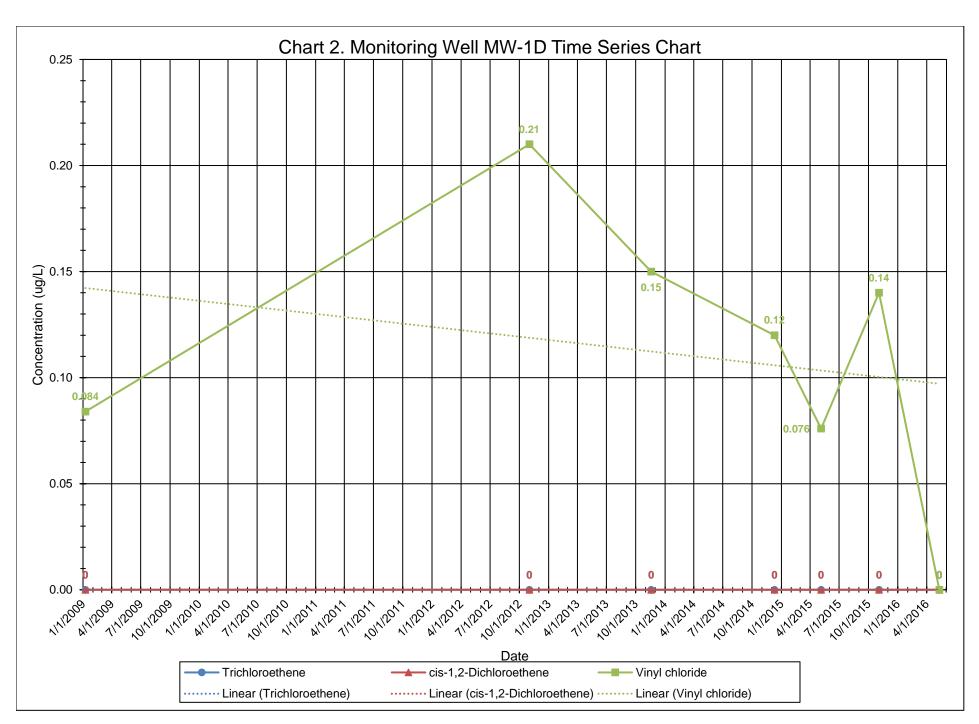
Alkalinity and chloride concentrations from monitoring well MW-102S used as background values. Scoring system and interpretation from: Chlorinated Solvents in Groundwater, June 2006, Minnesota Pollution Control Agency Site Remediation Section.

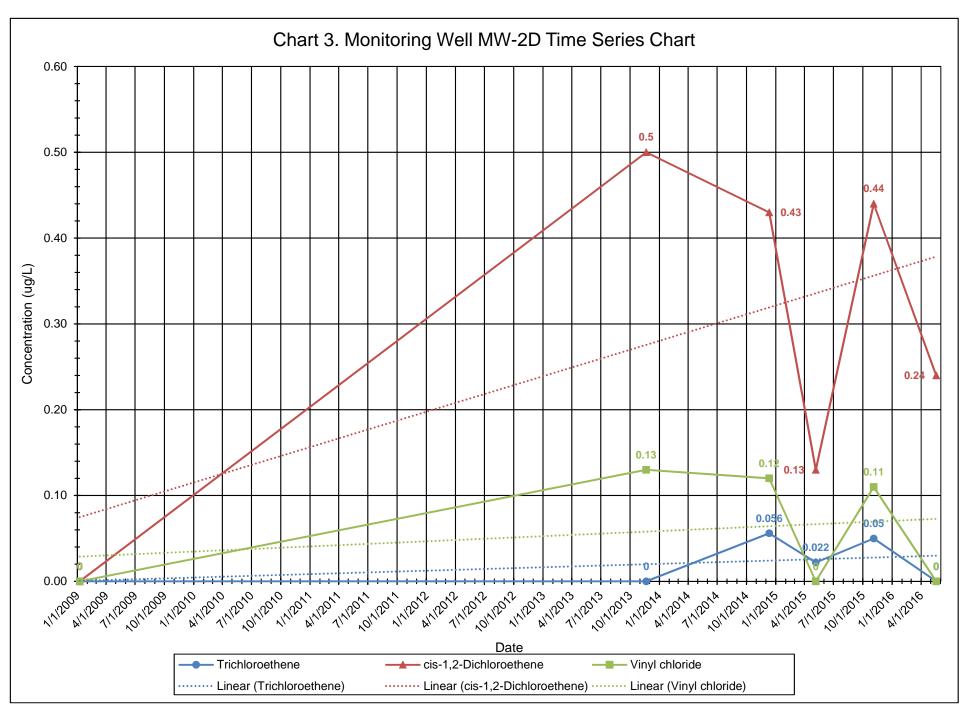
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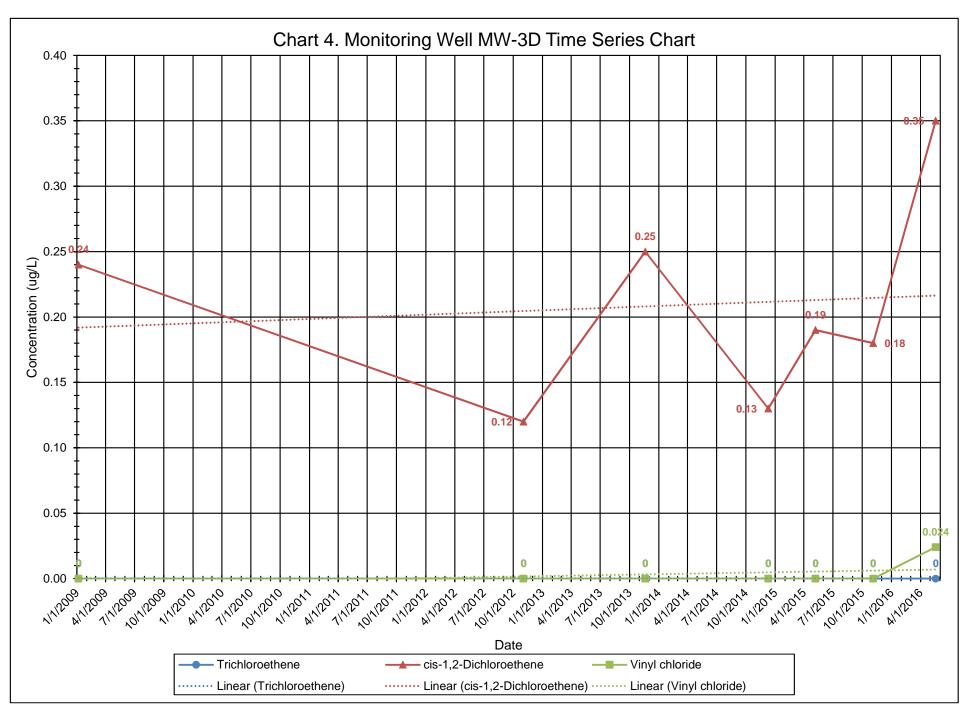


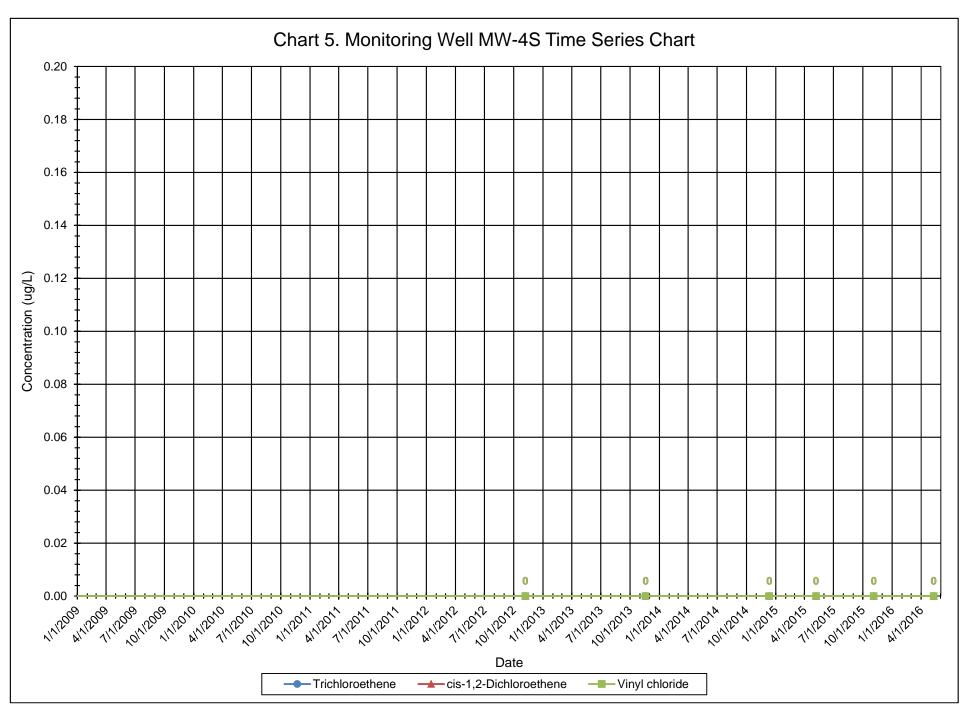
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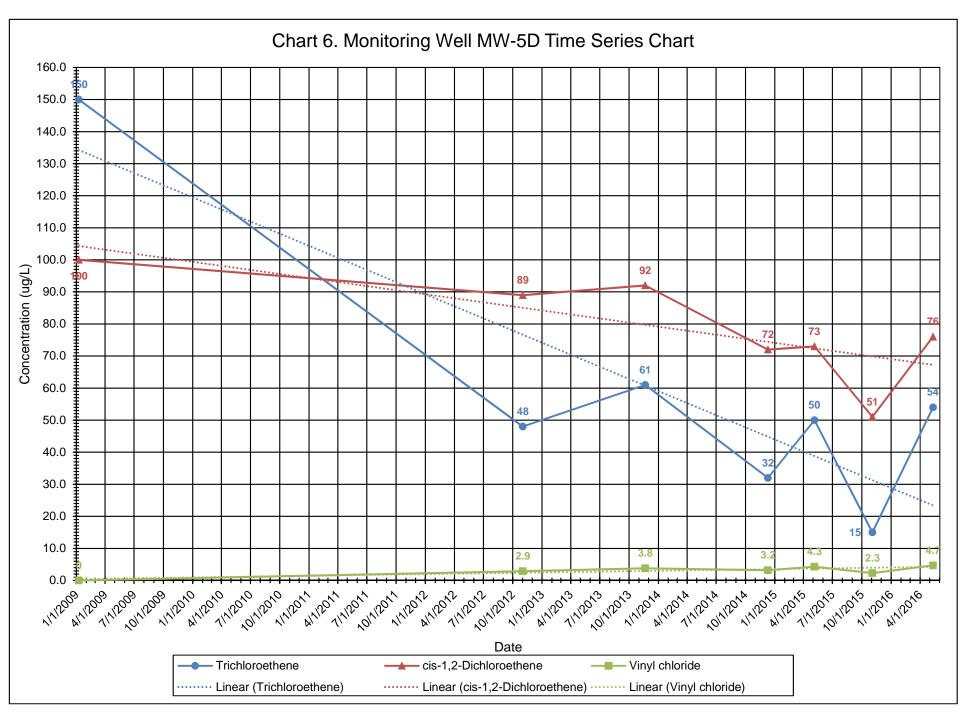


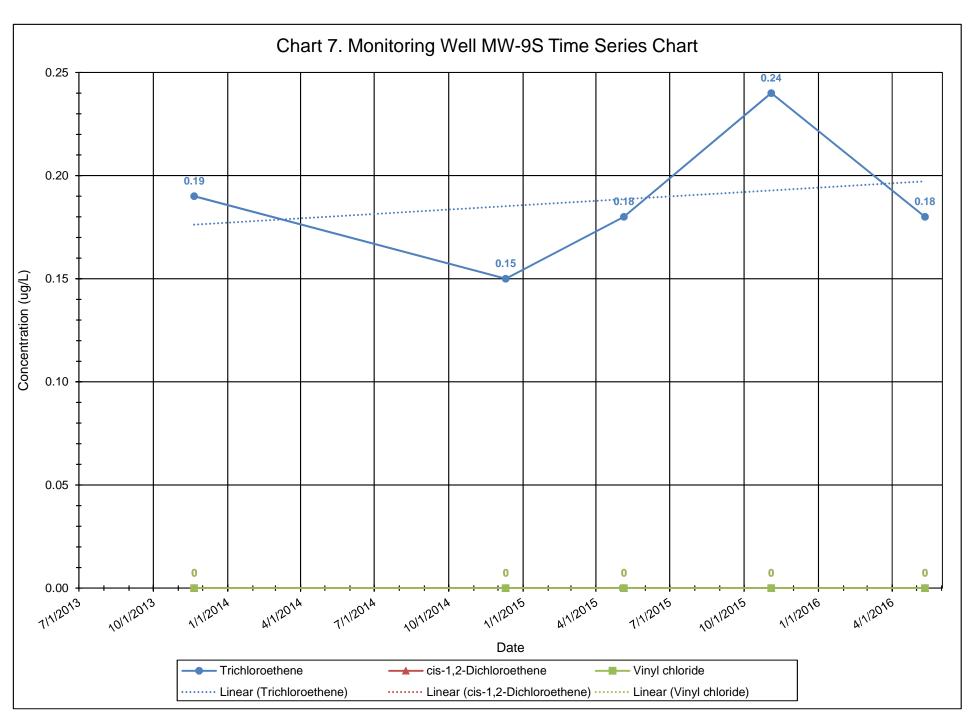


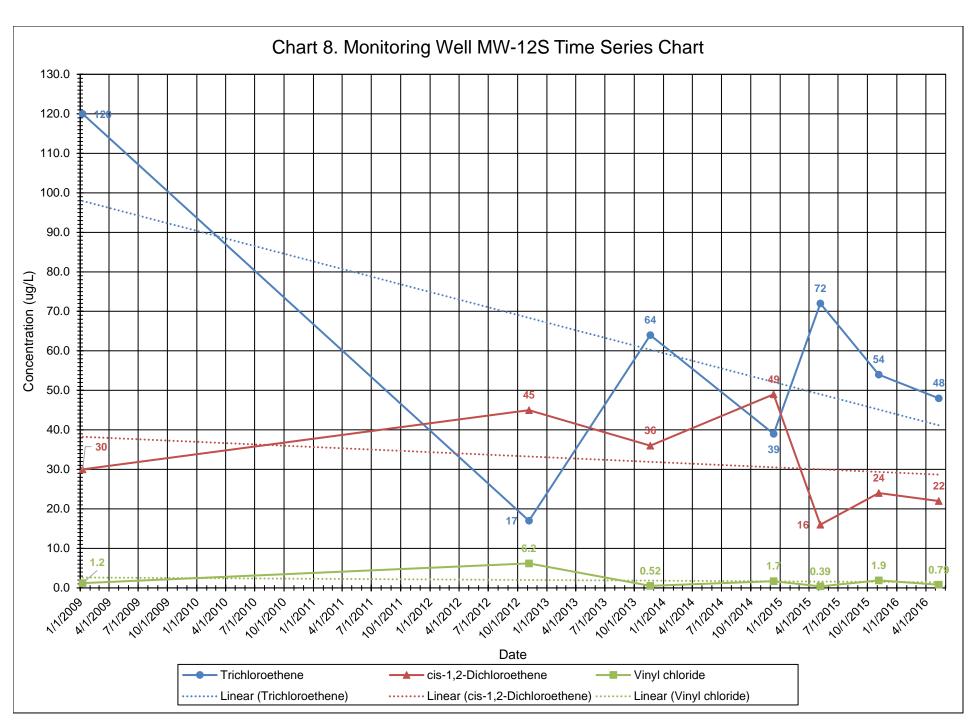


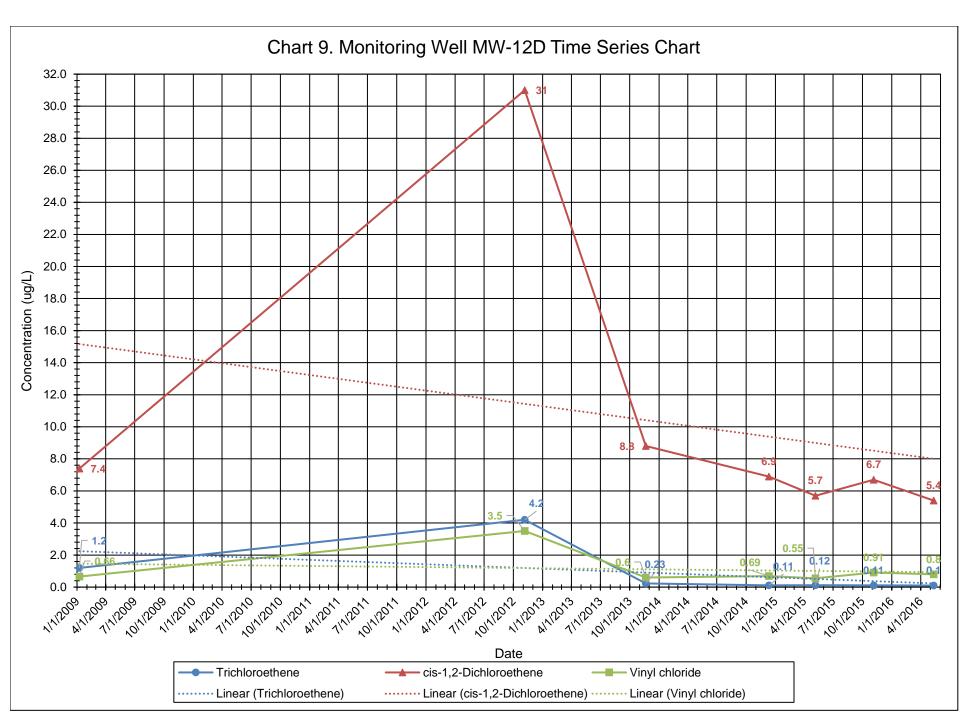


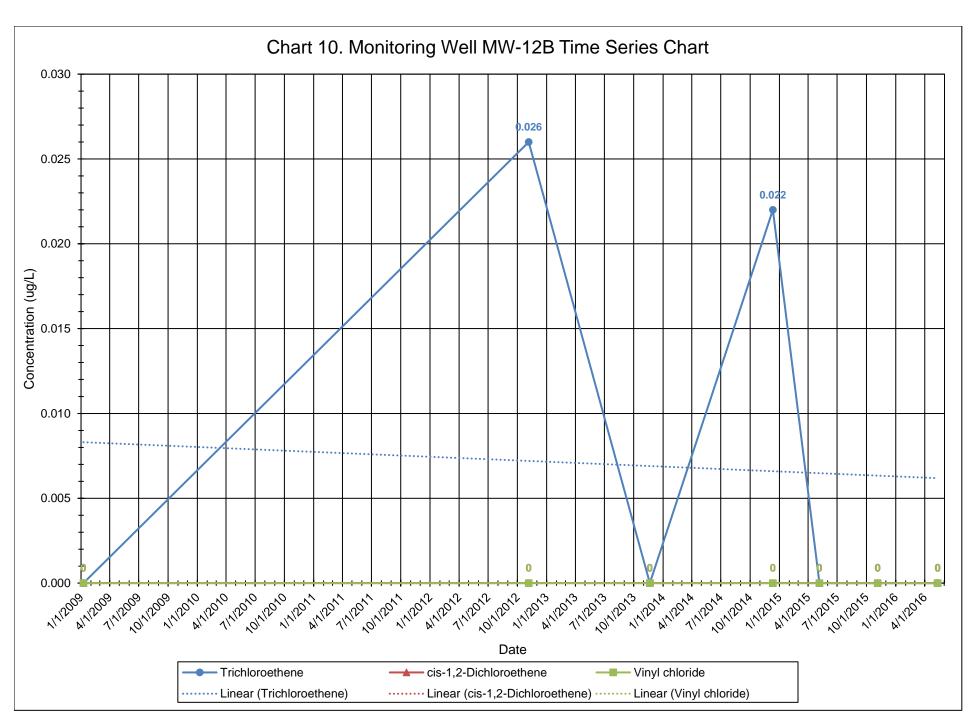


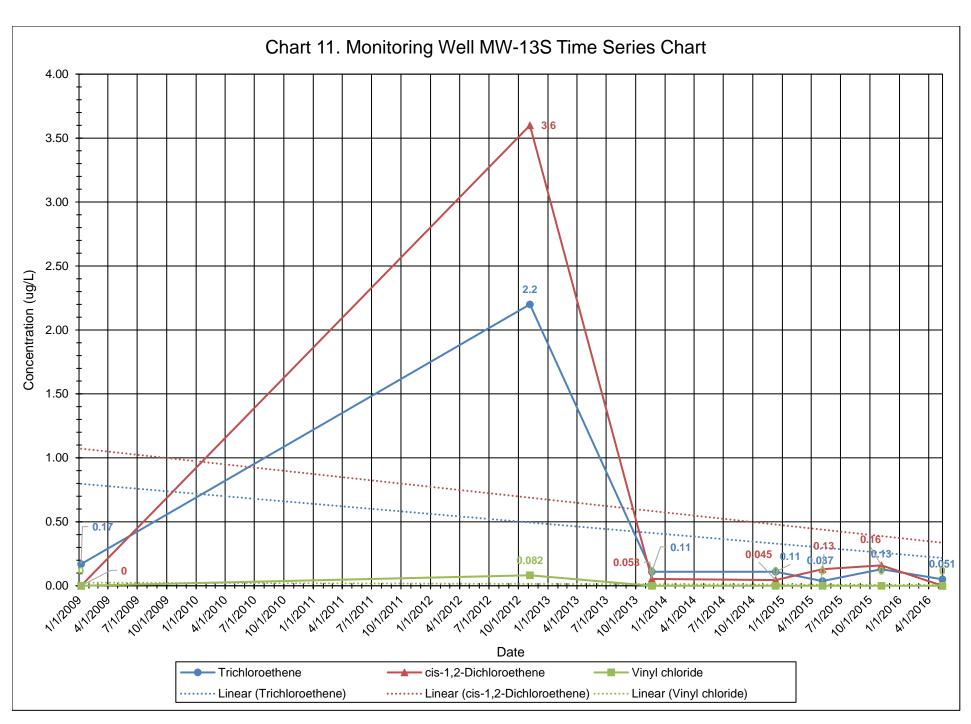


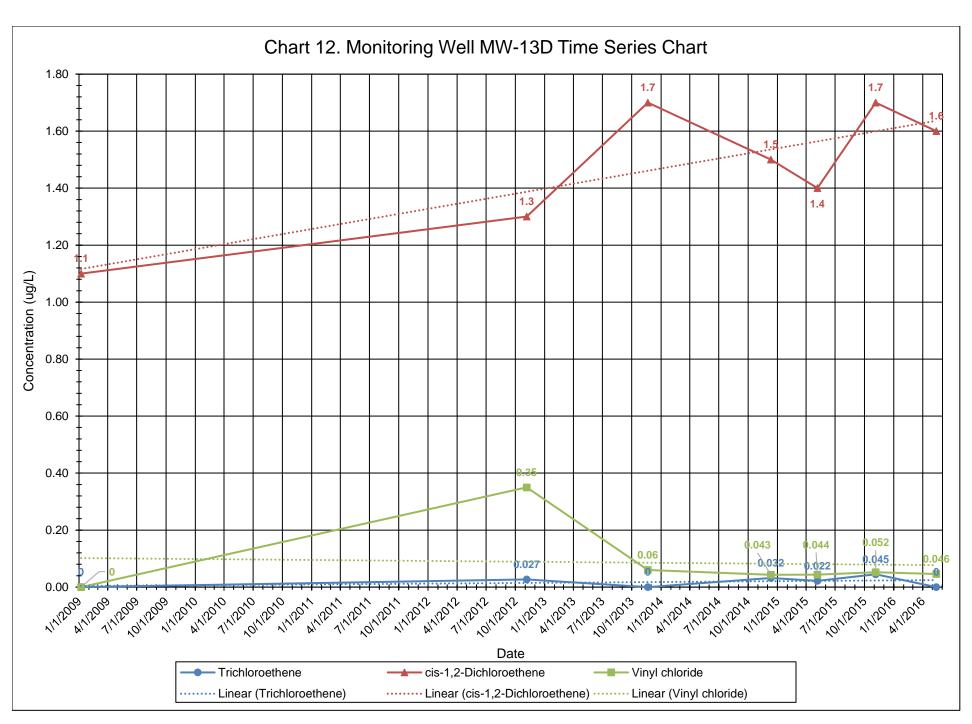


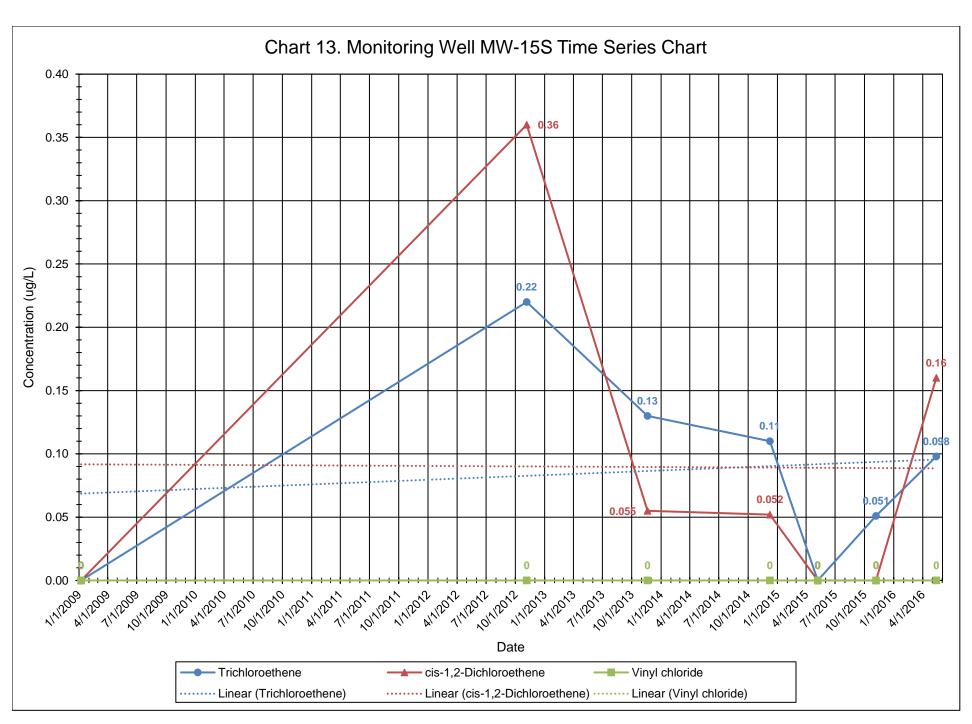


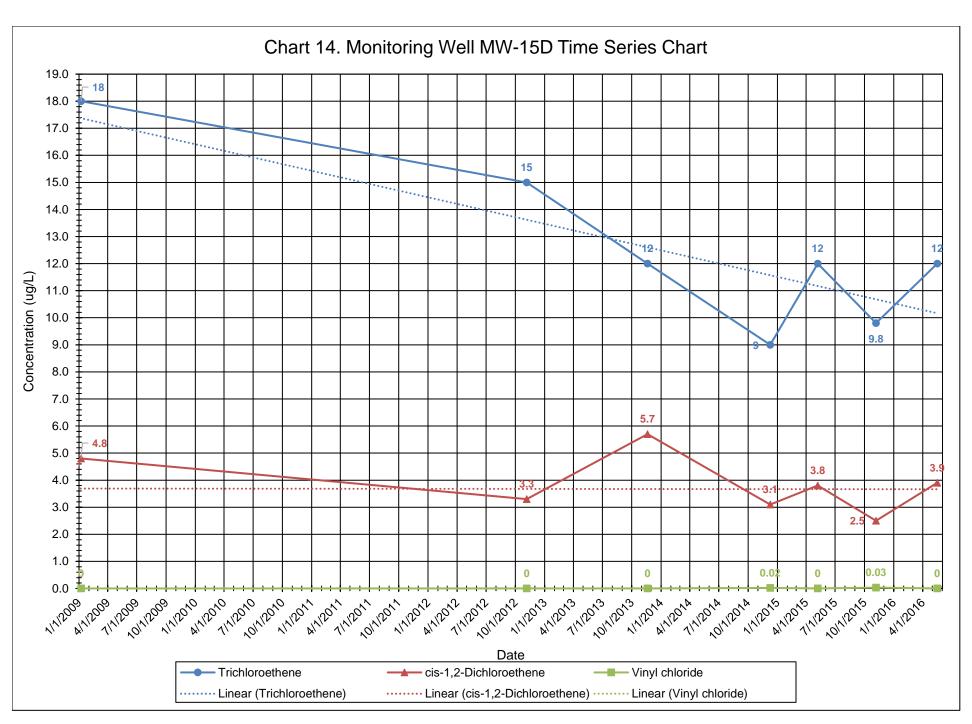


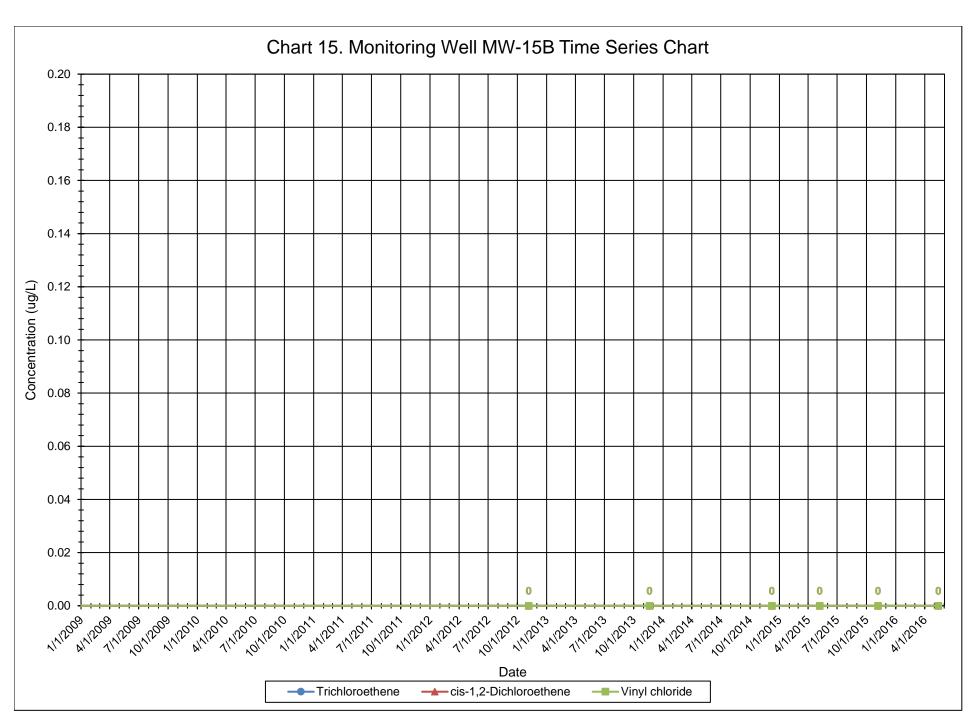


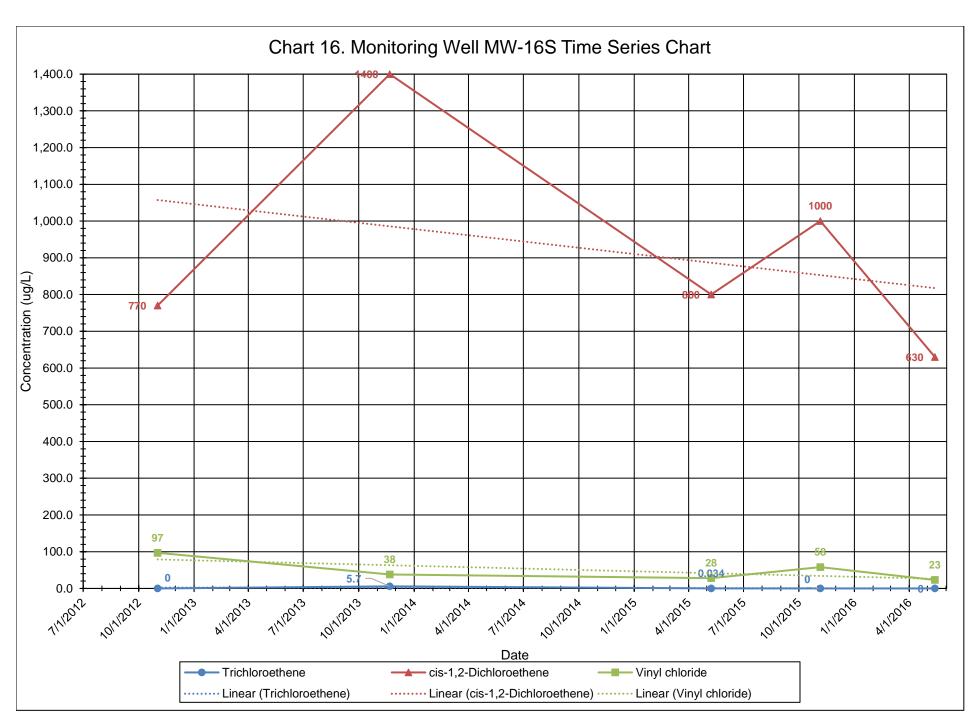


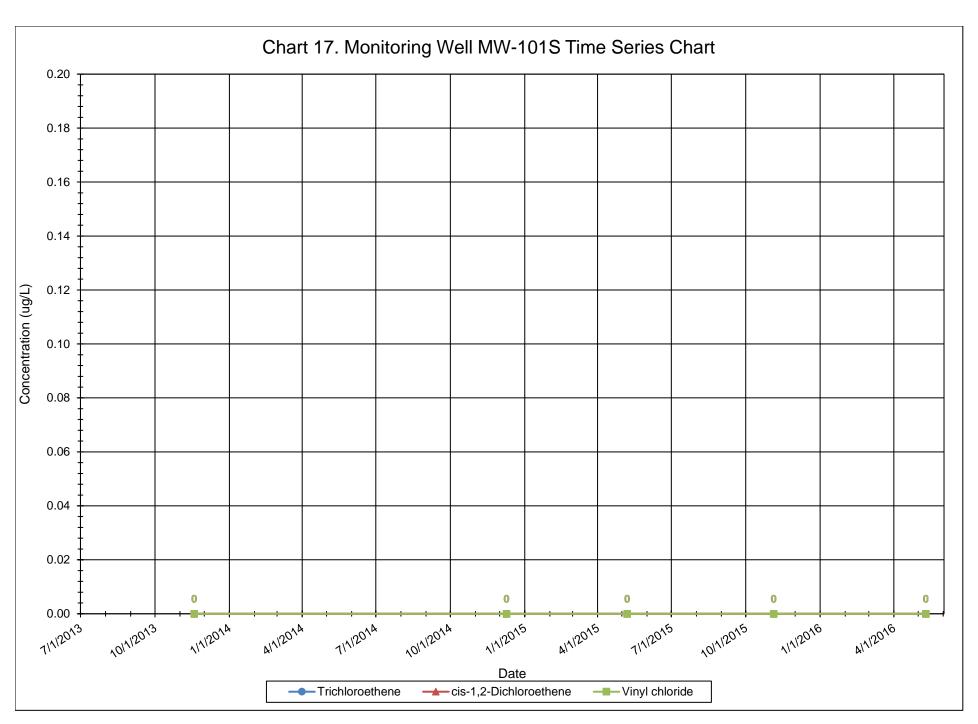


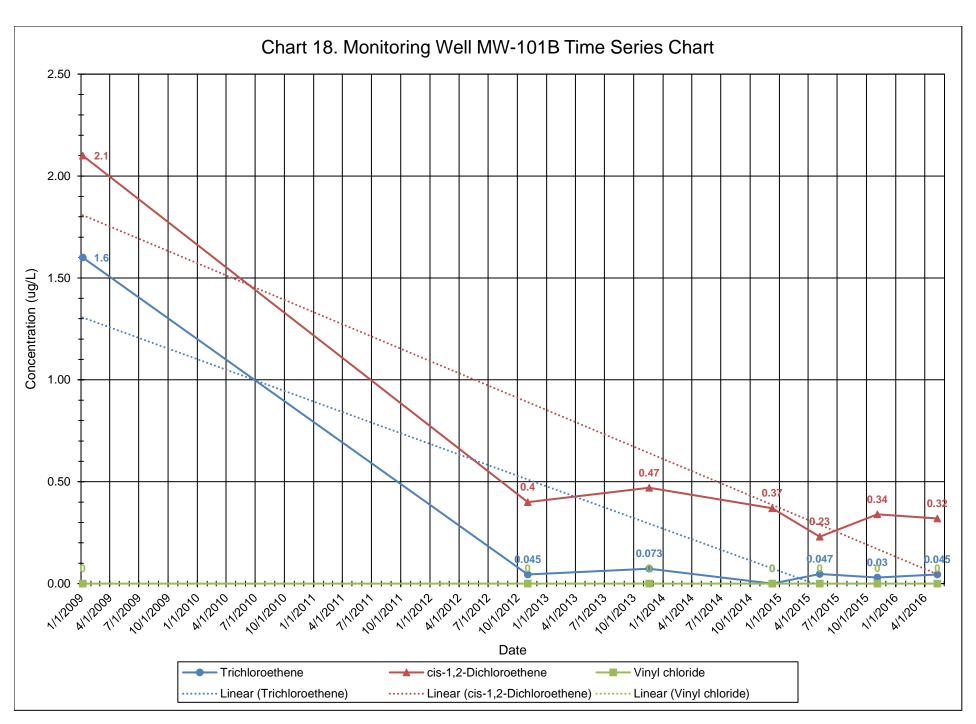


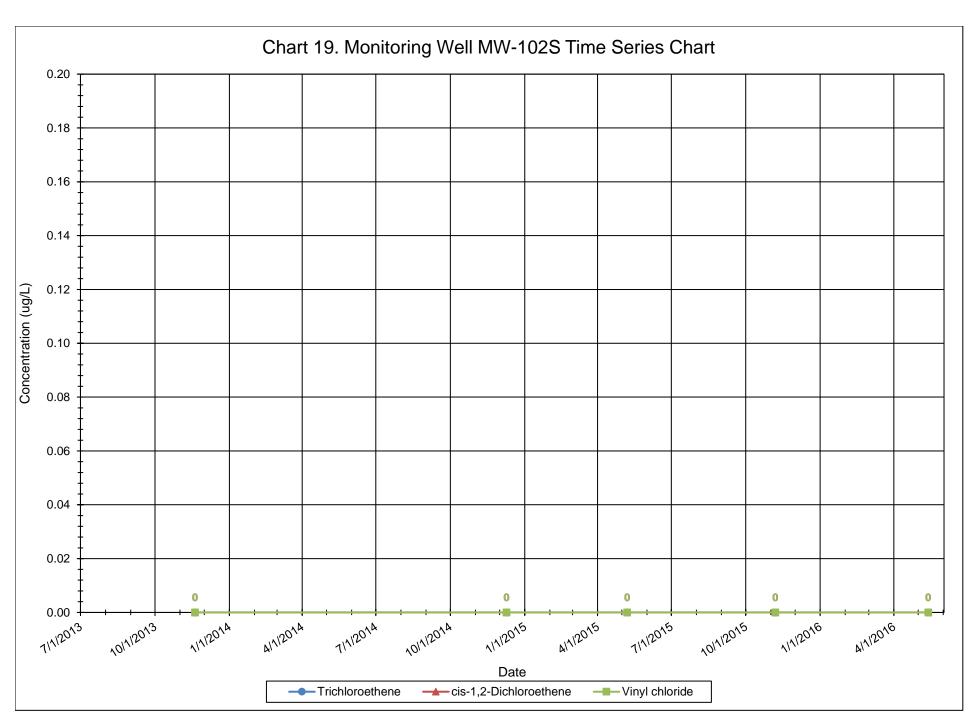


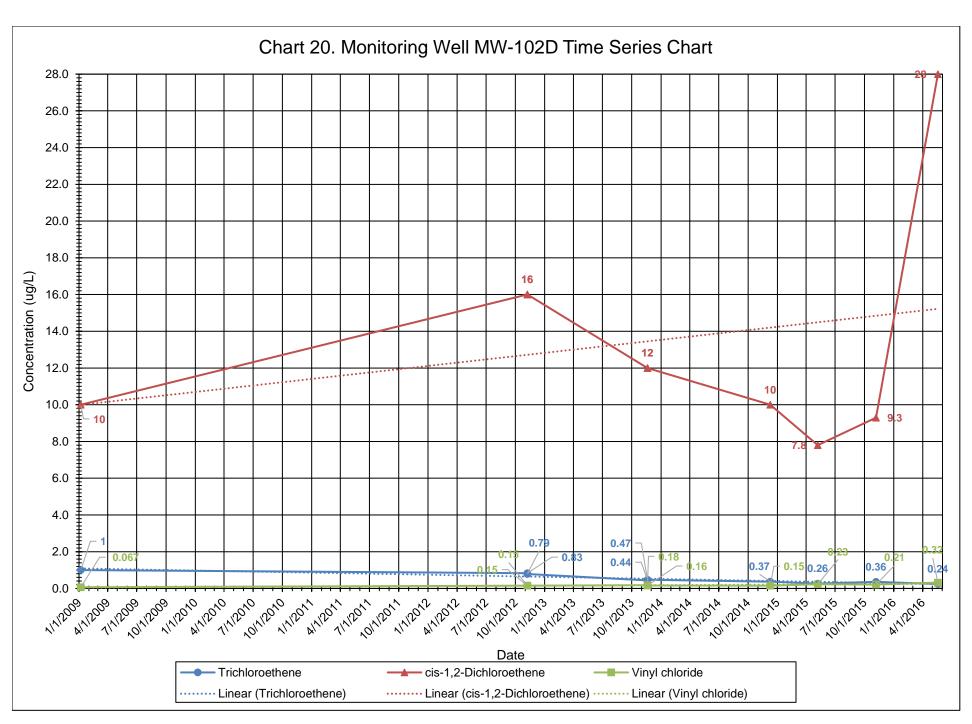


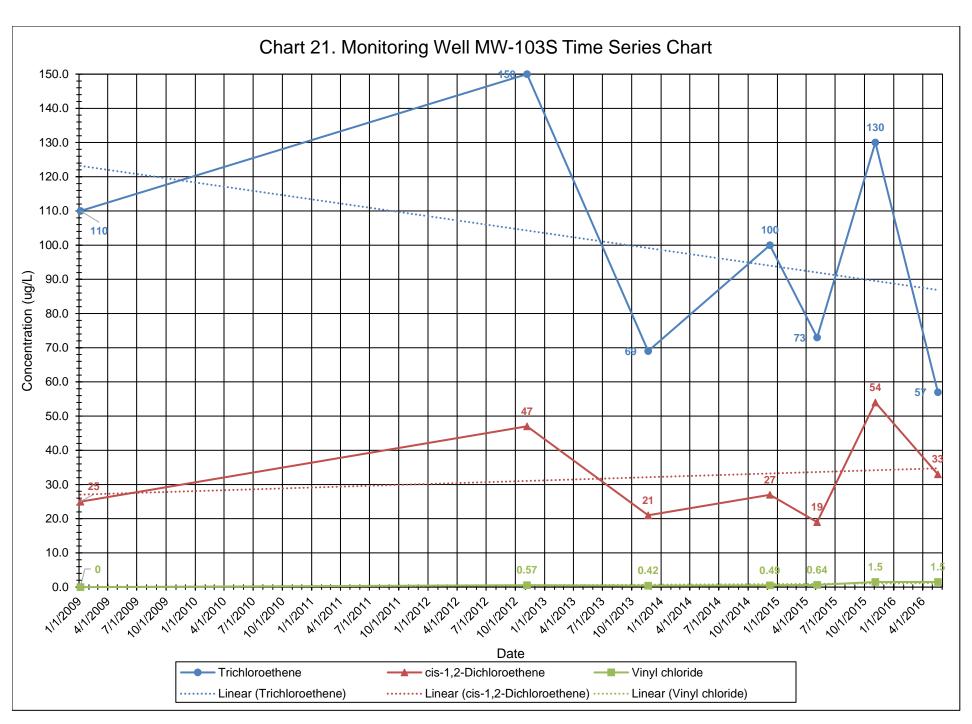


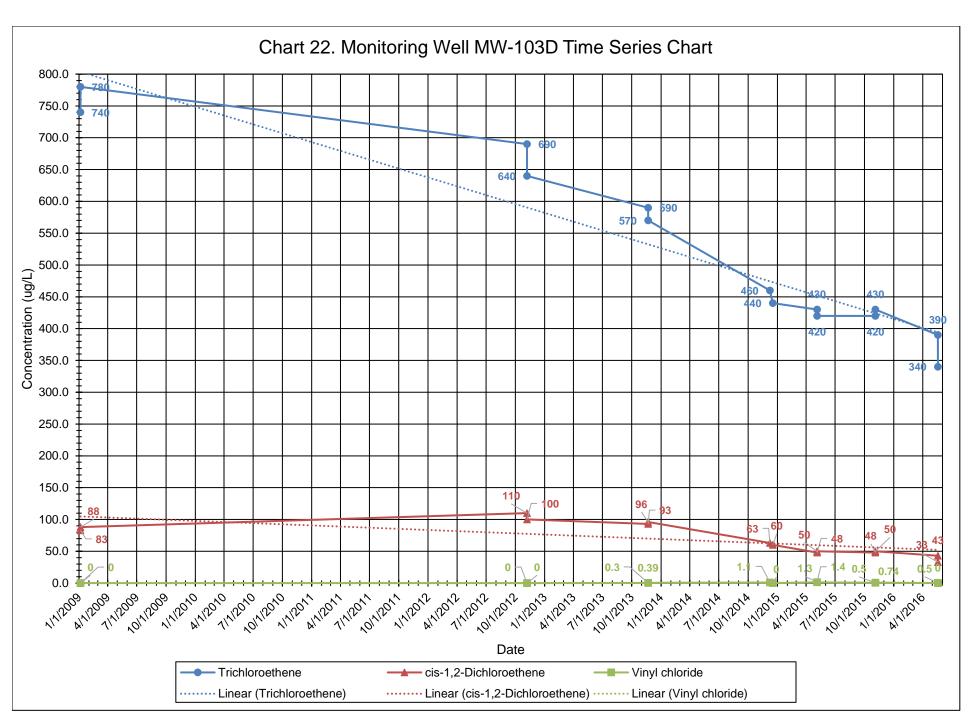


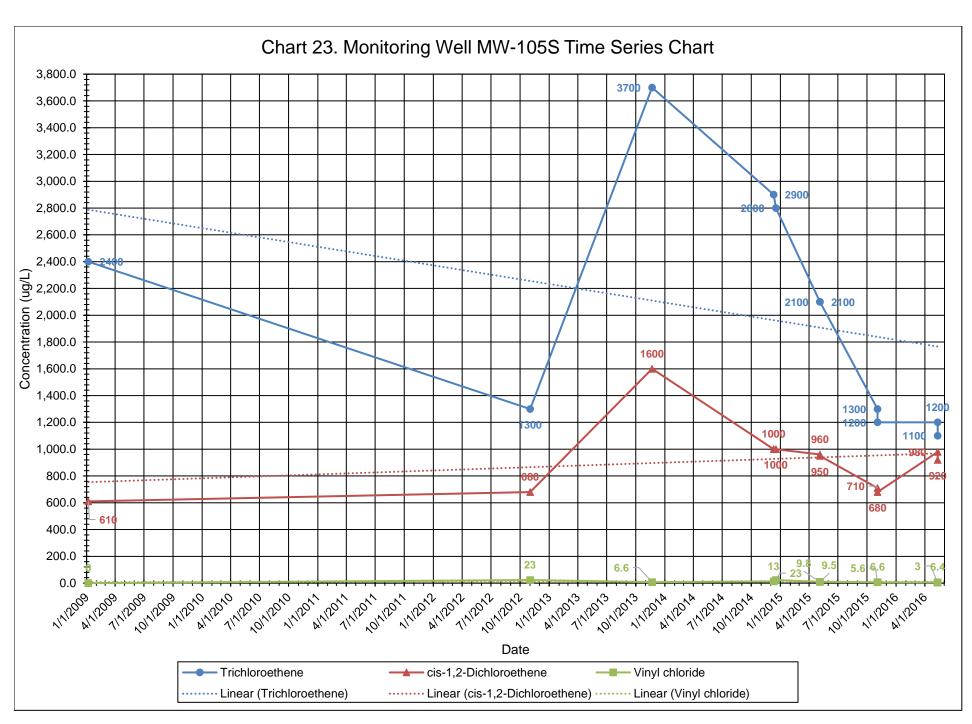


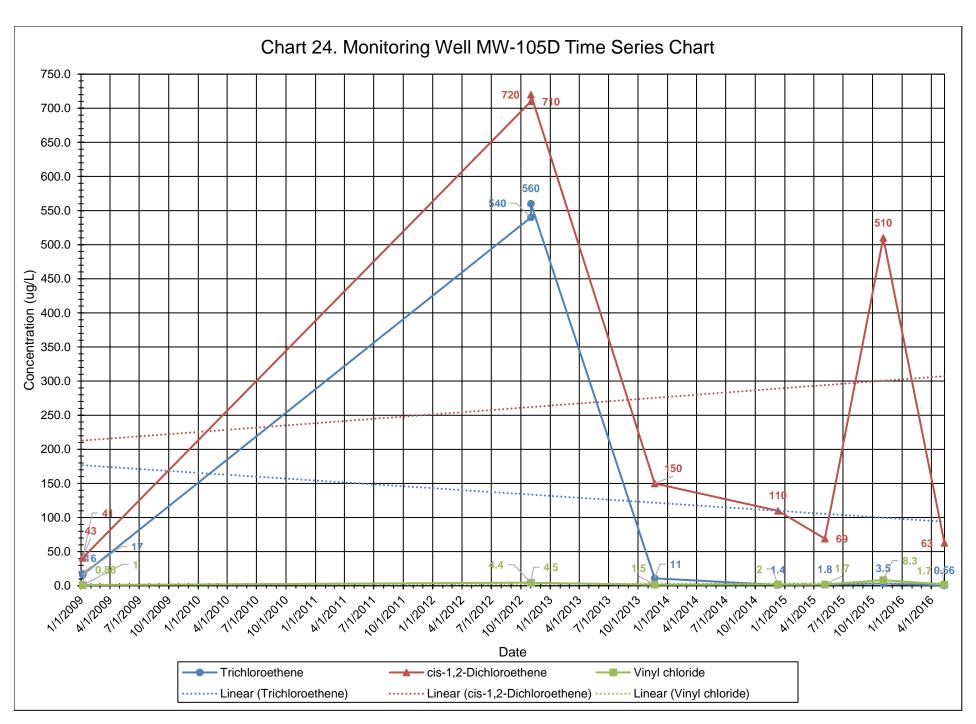


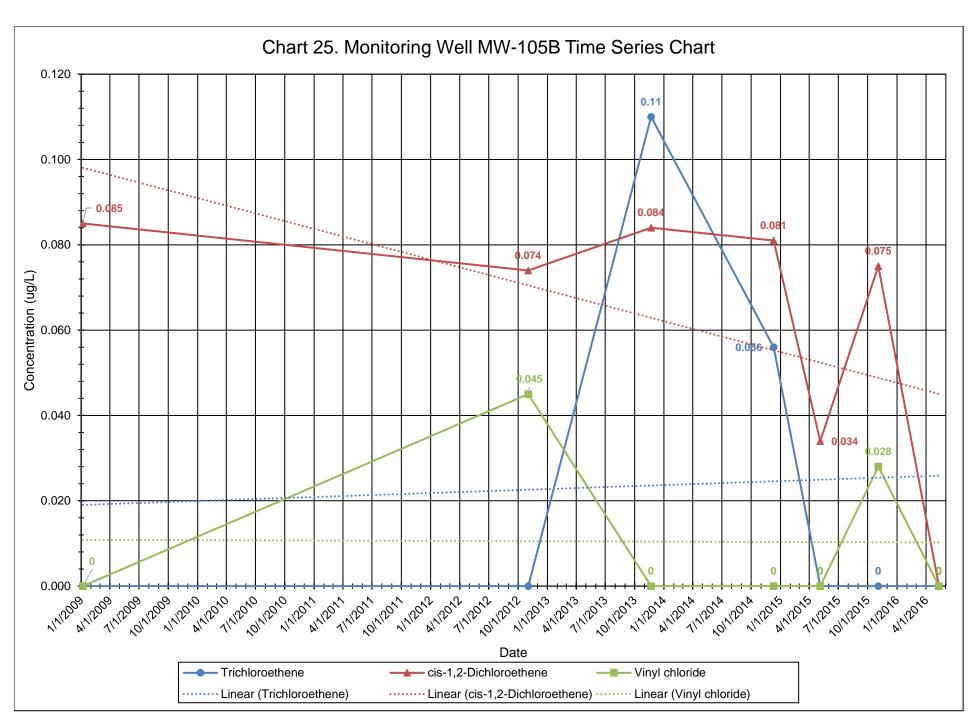


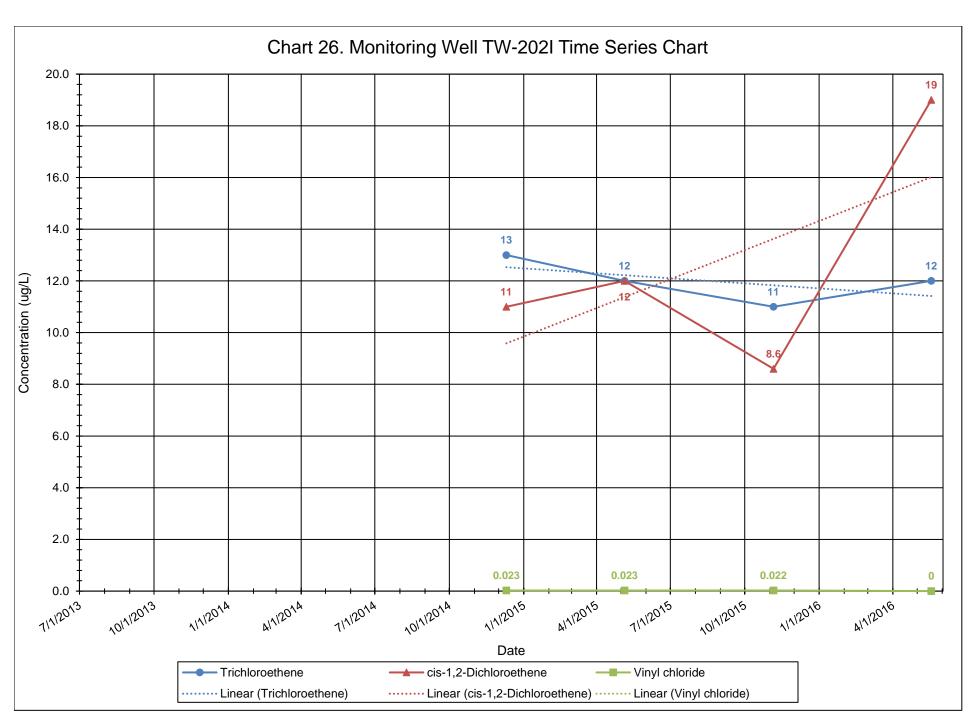


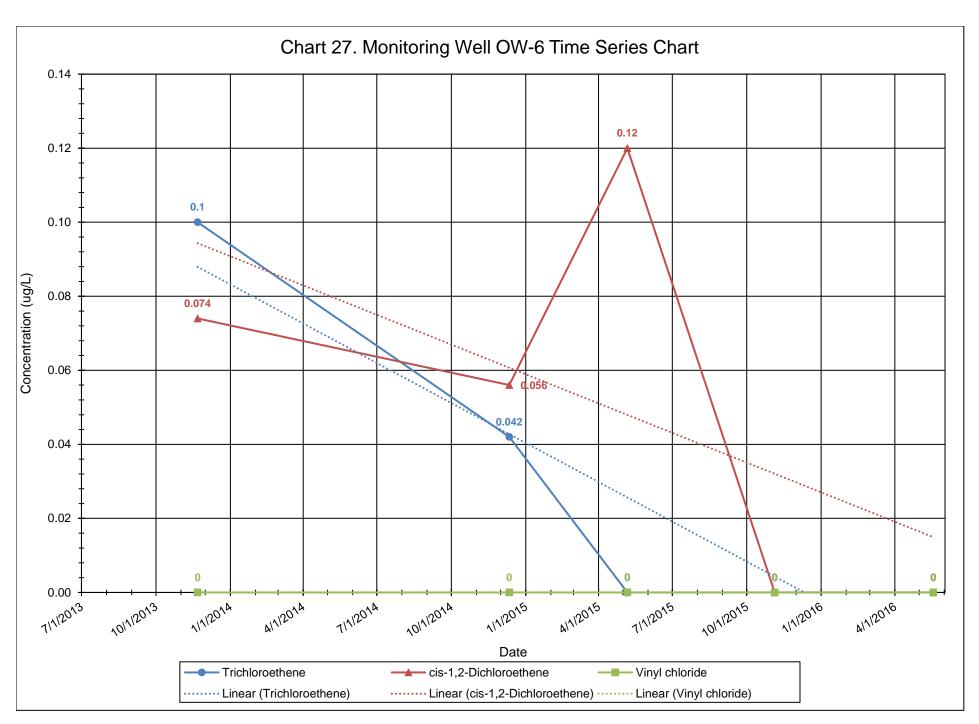


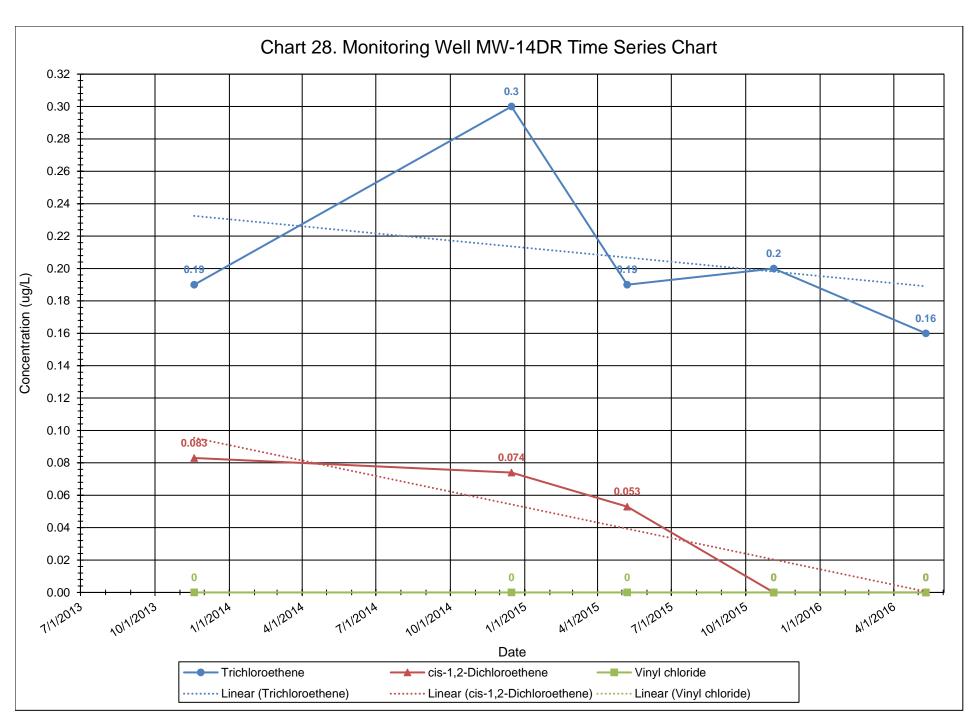






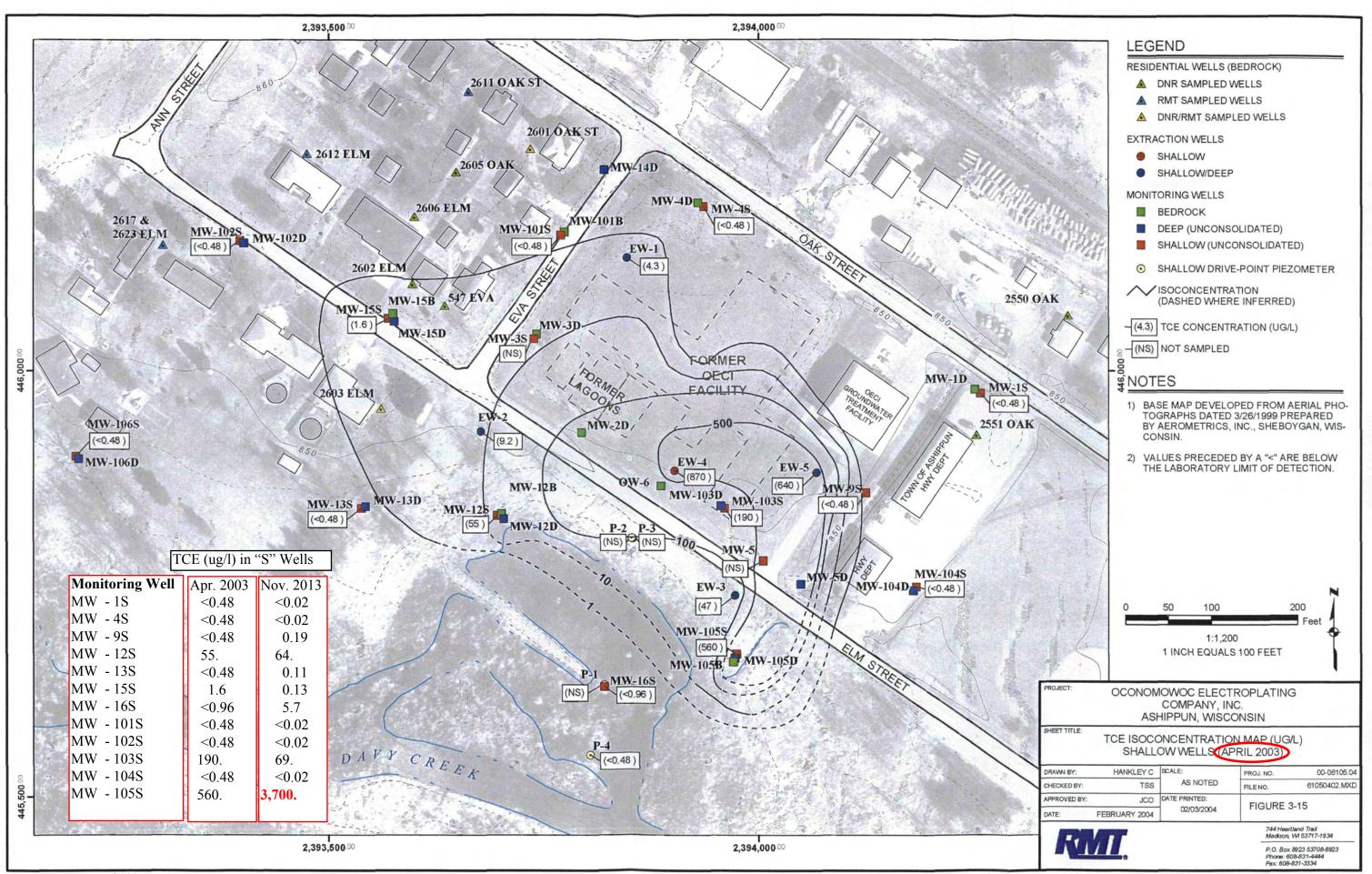


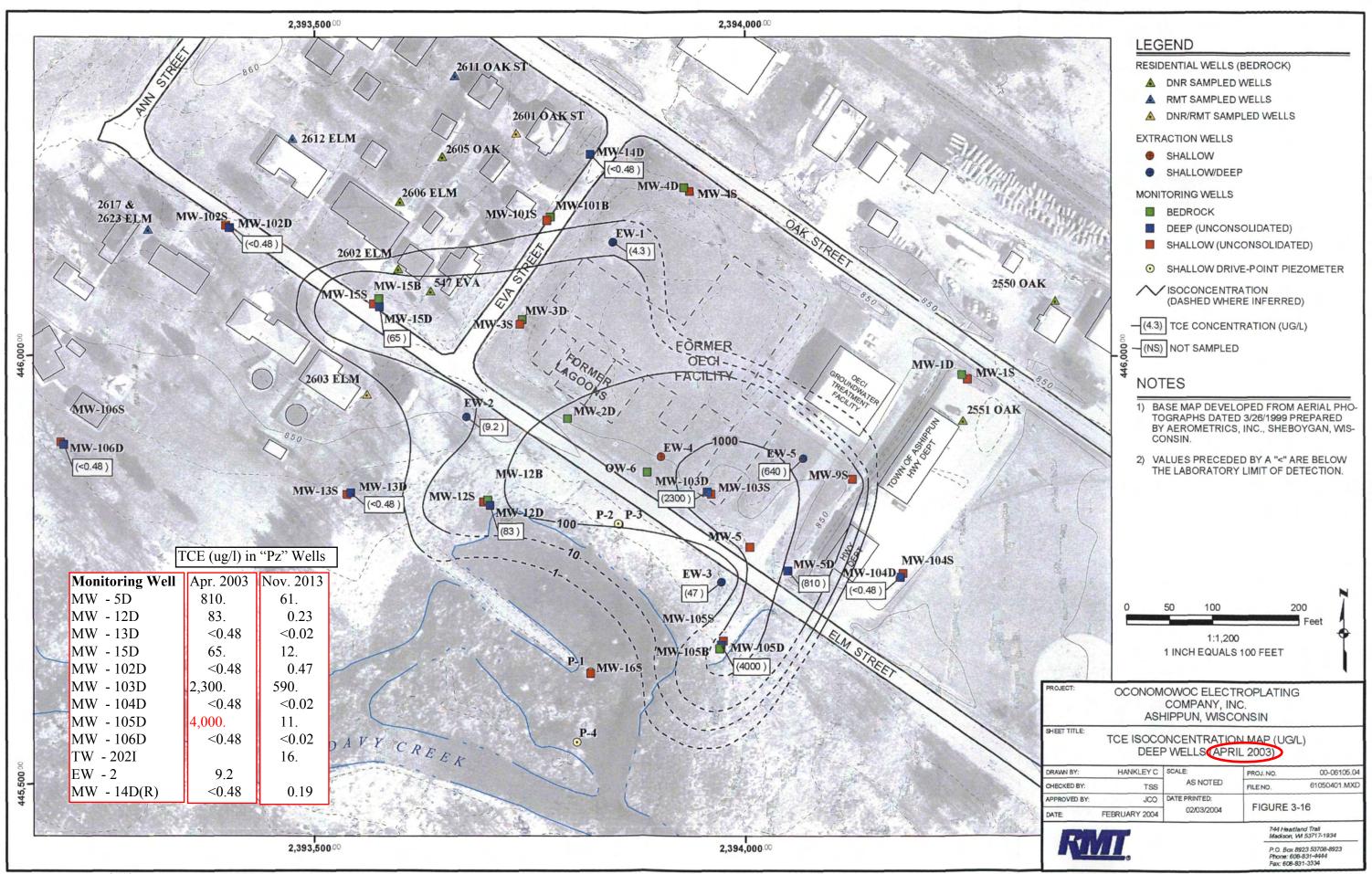


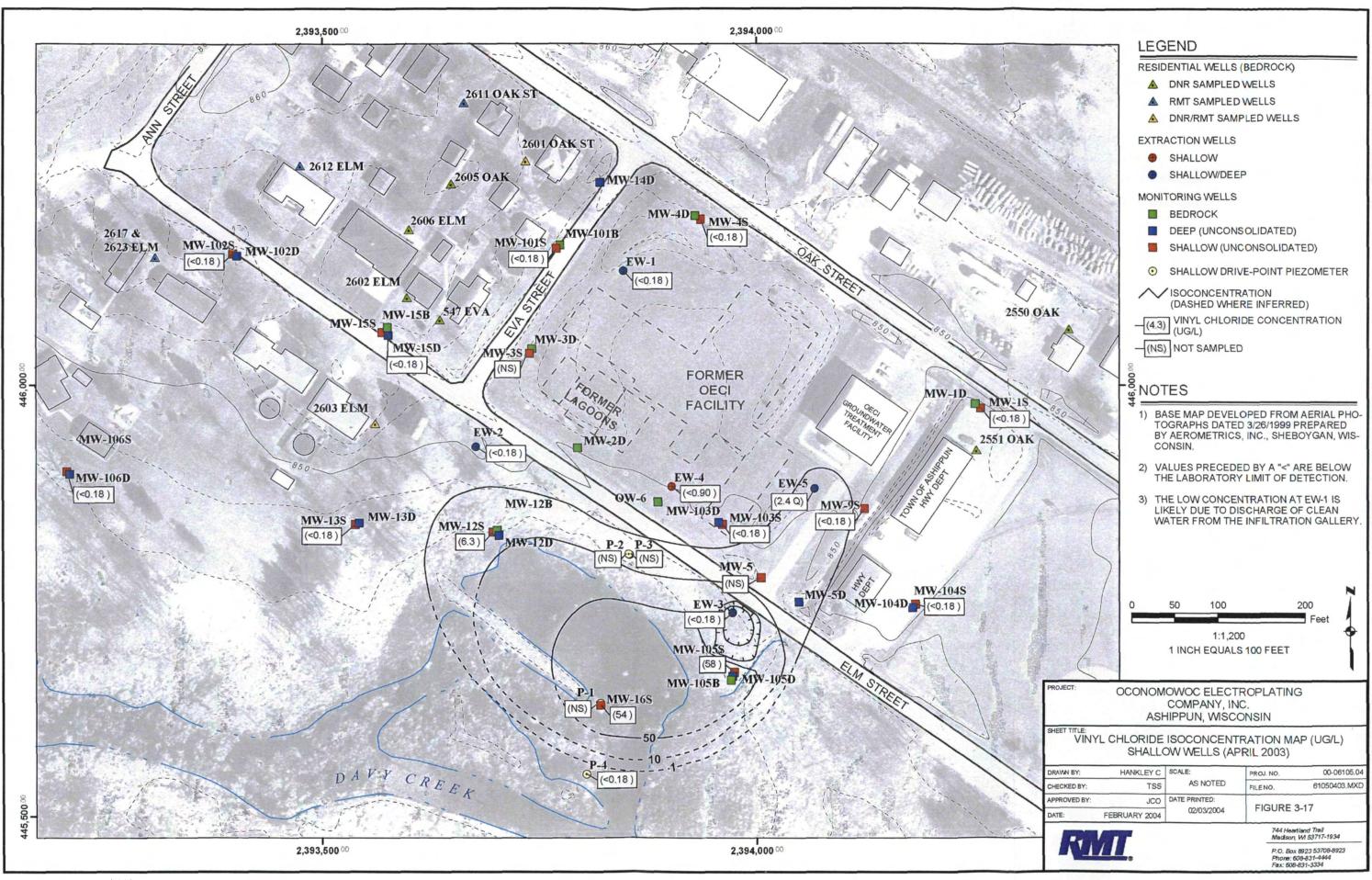


APPENDIX A

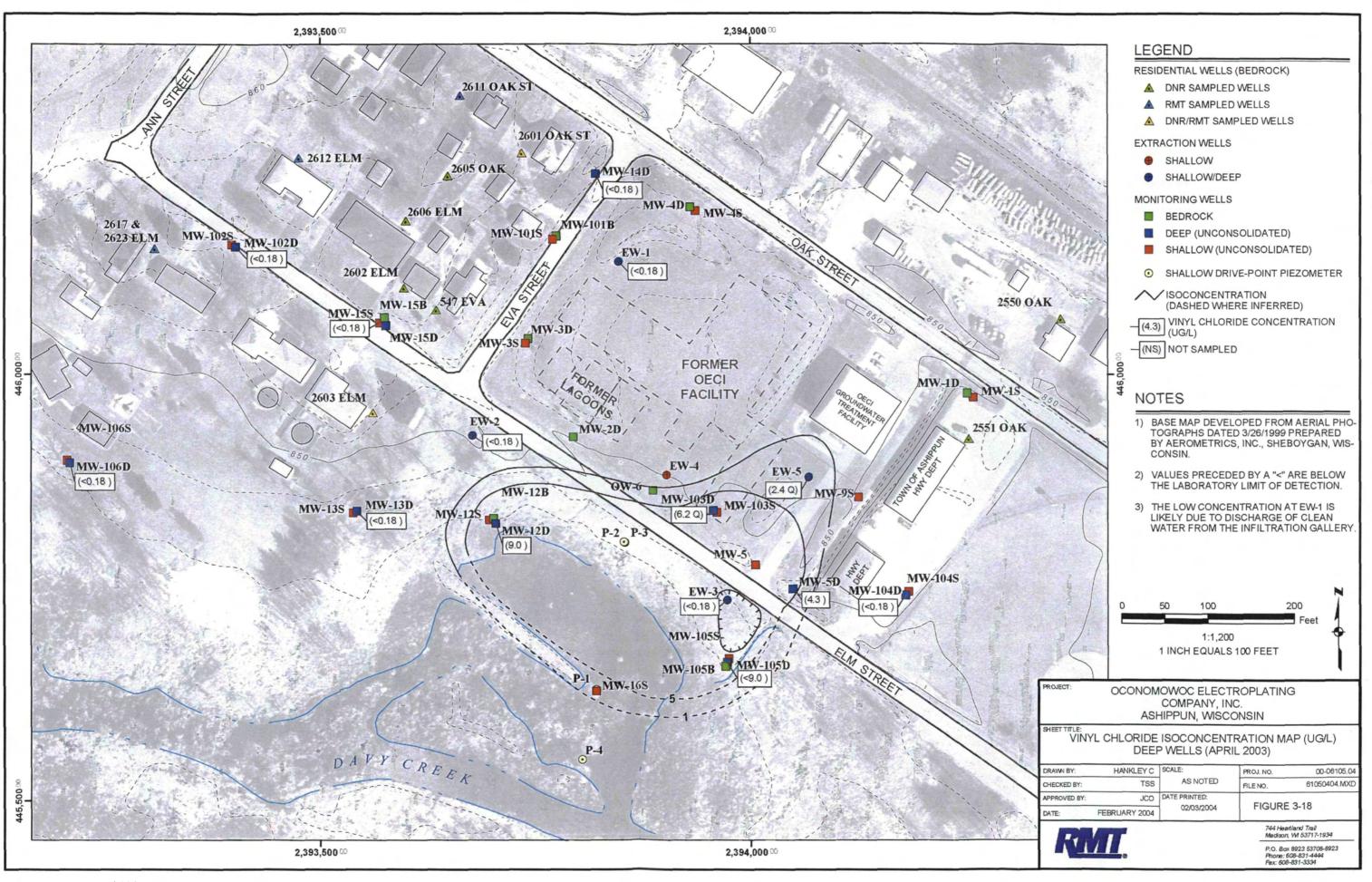
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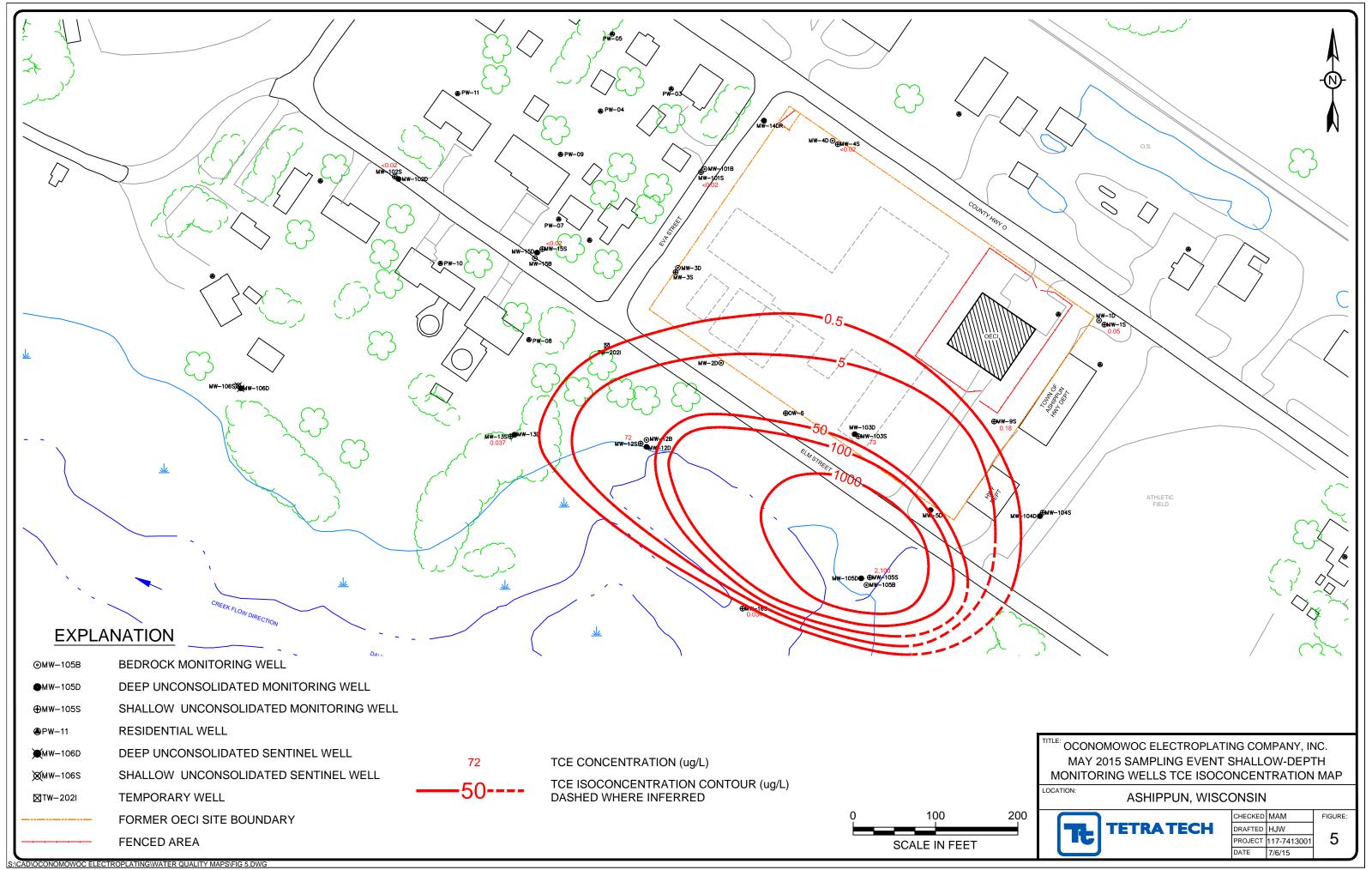


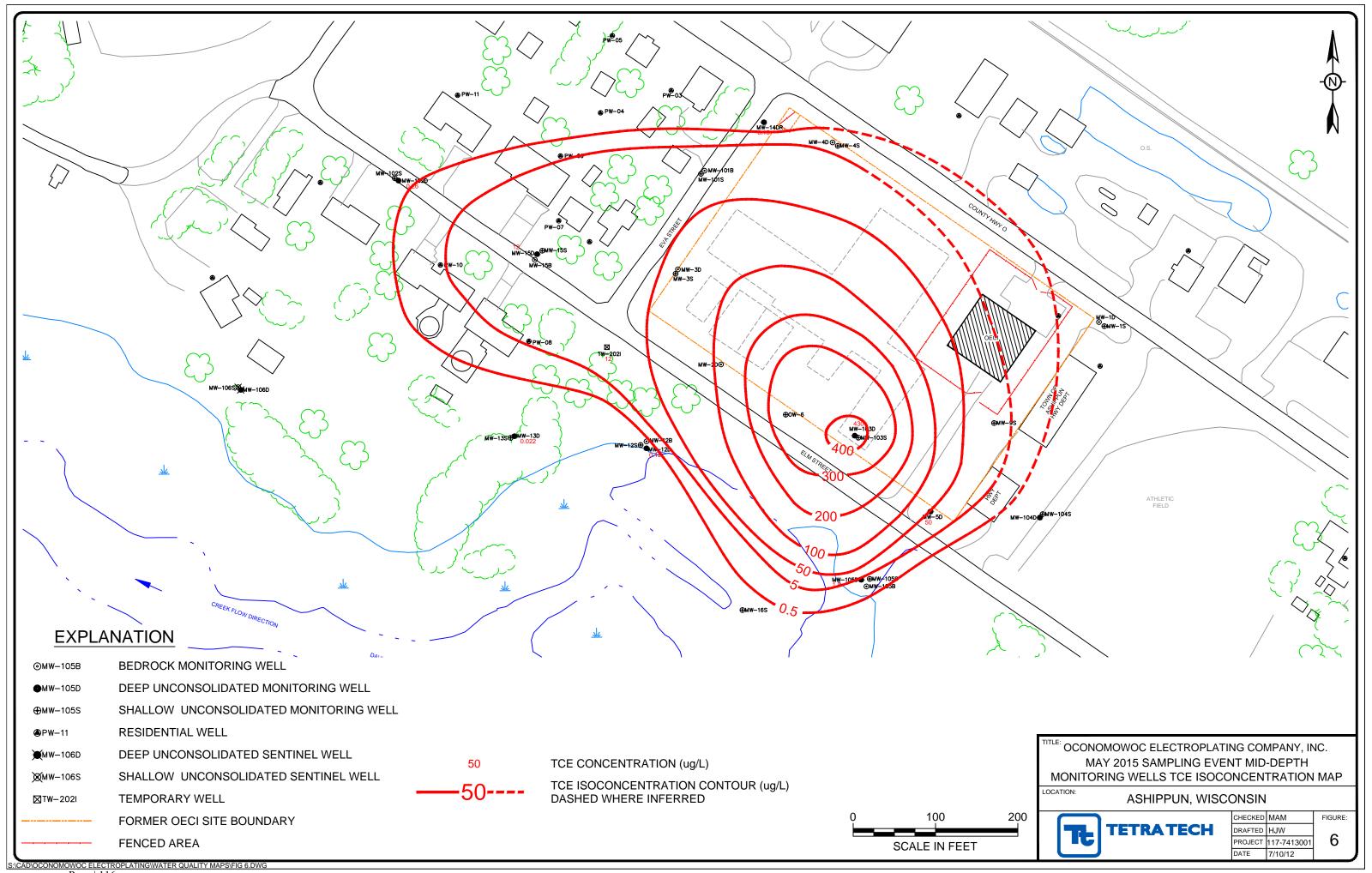


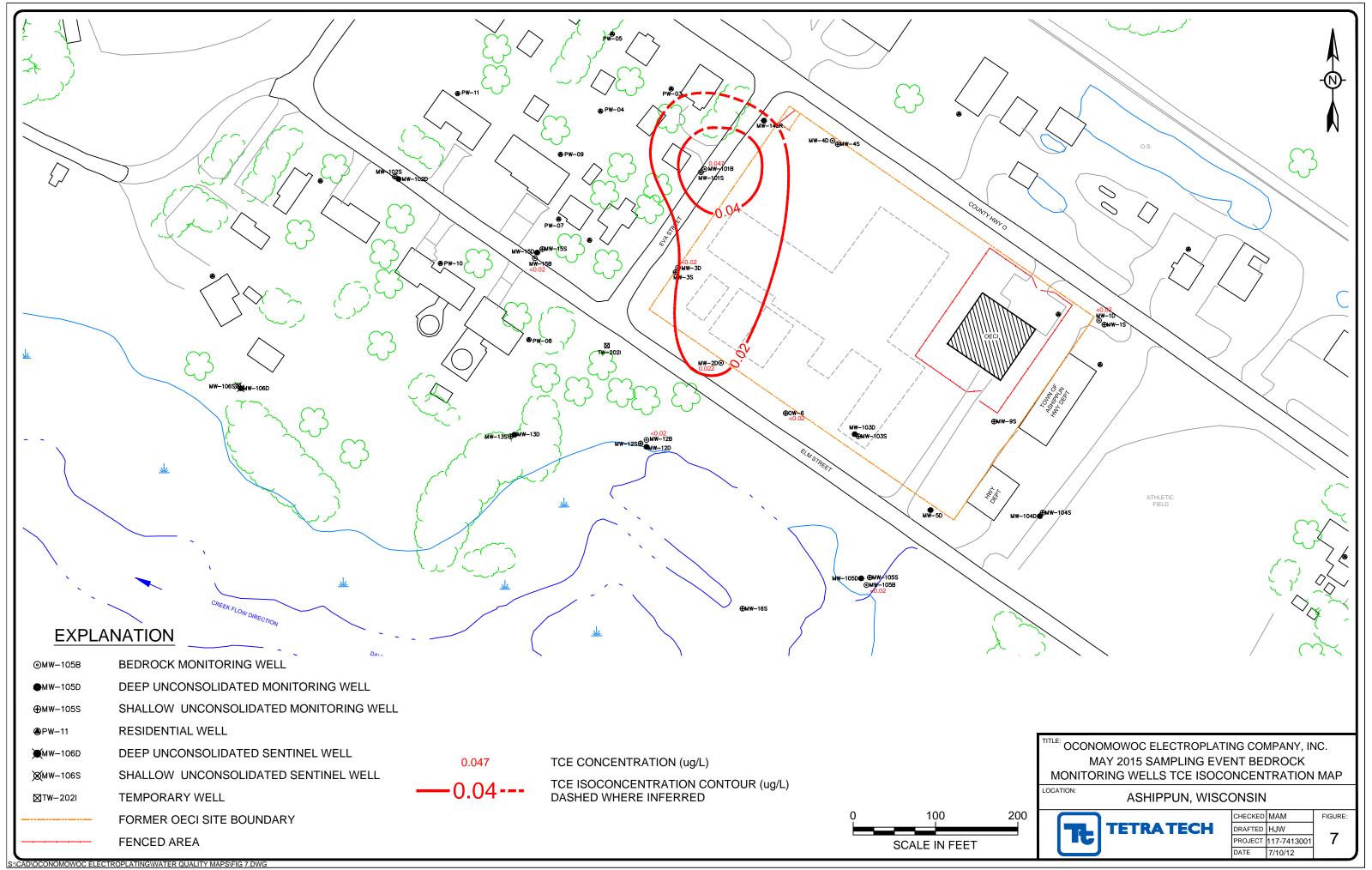


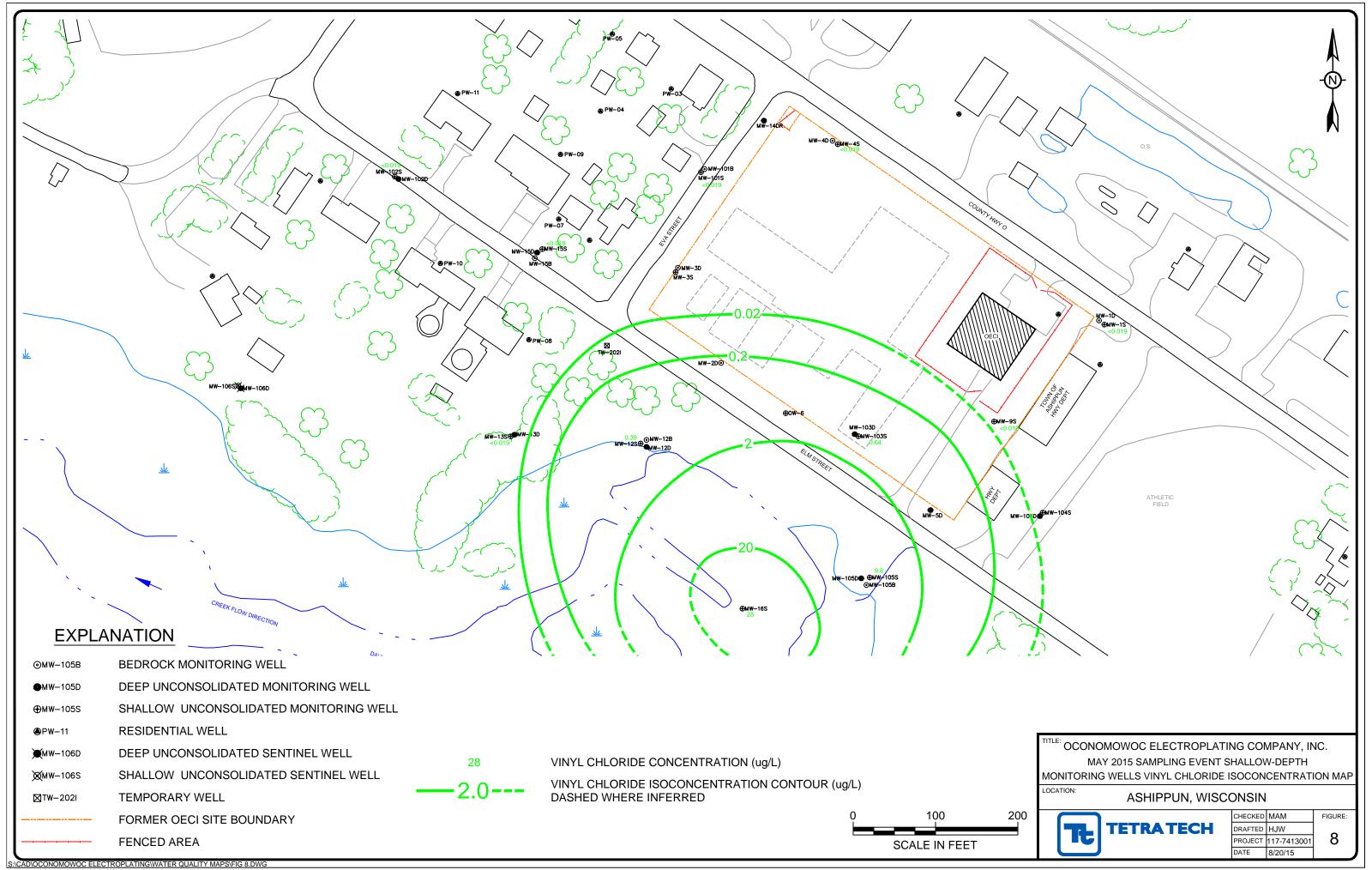
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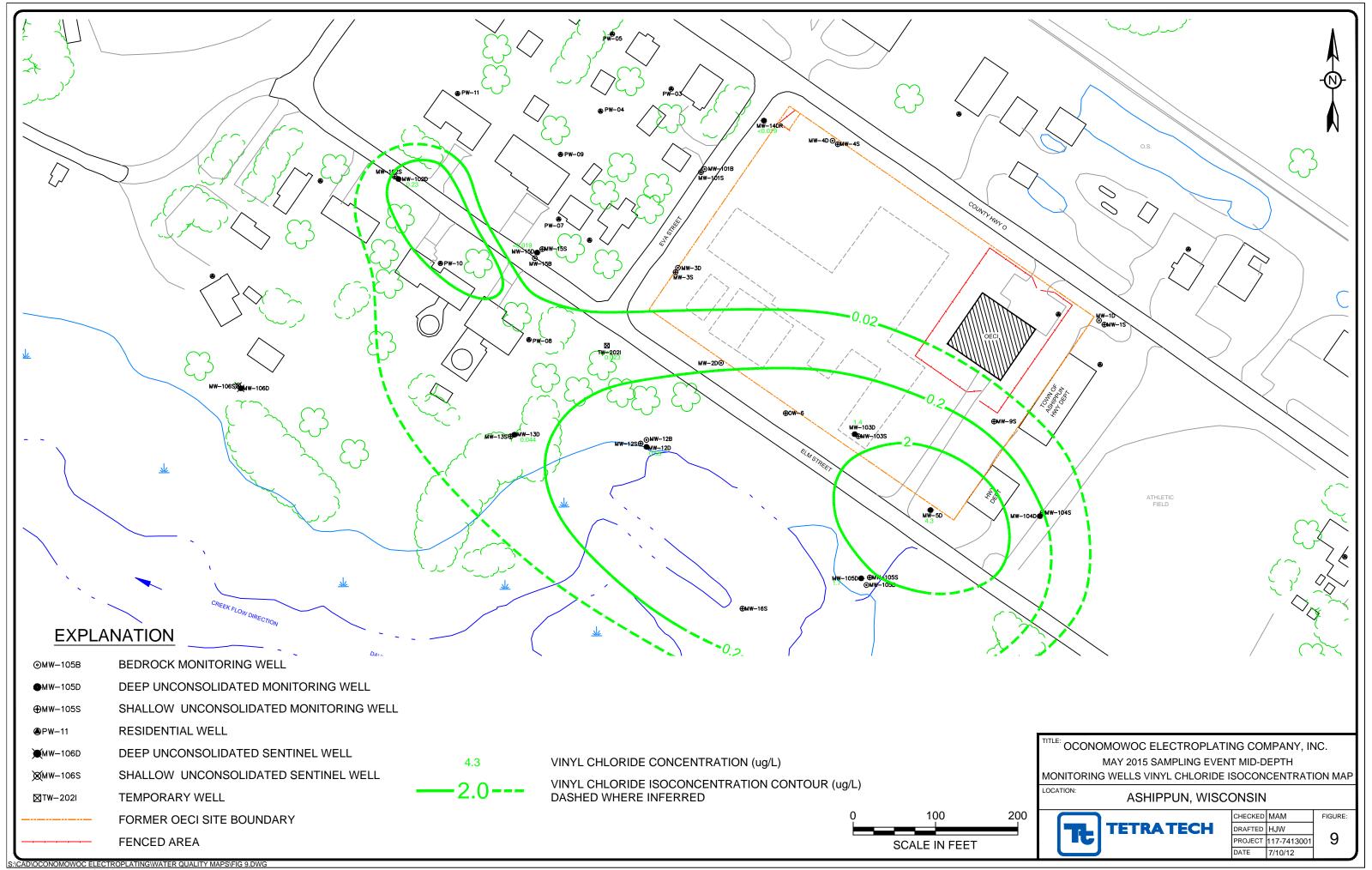


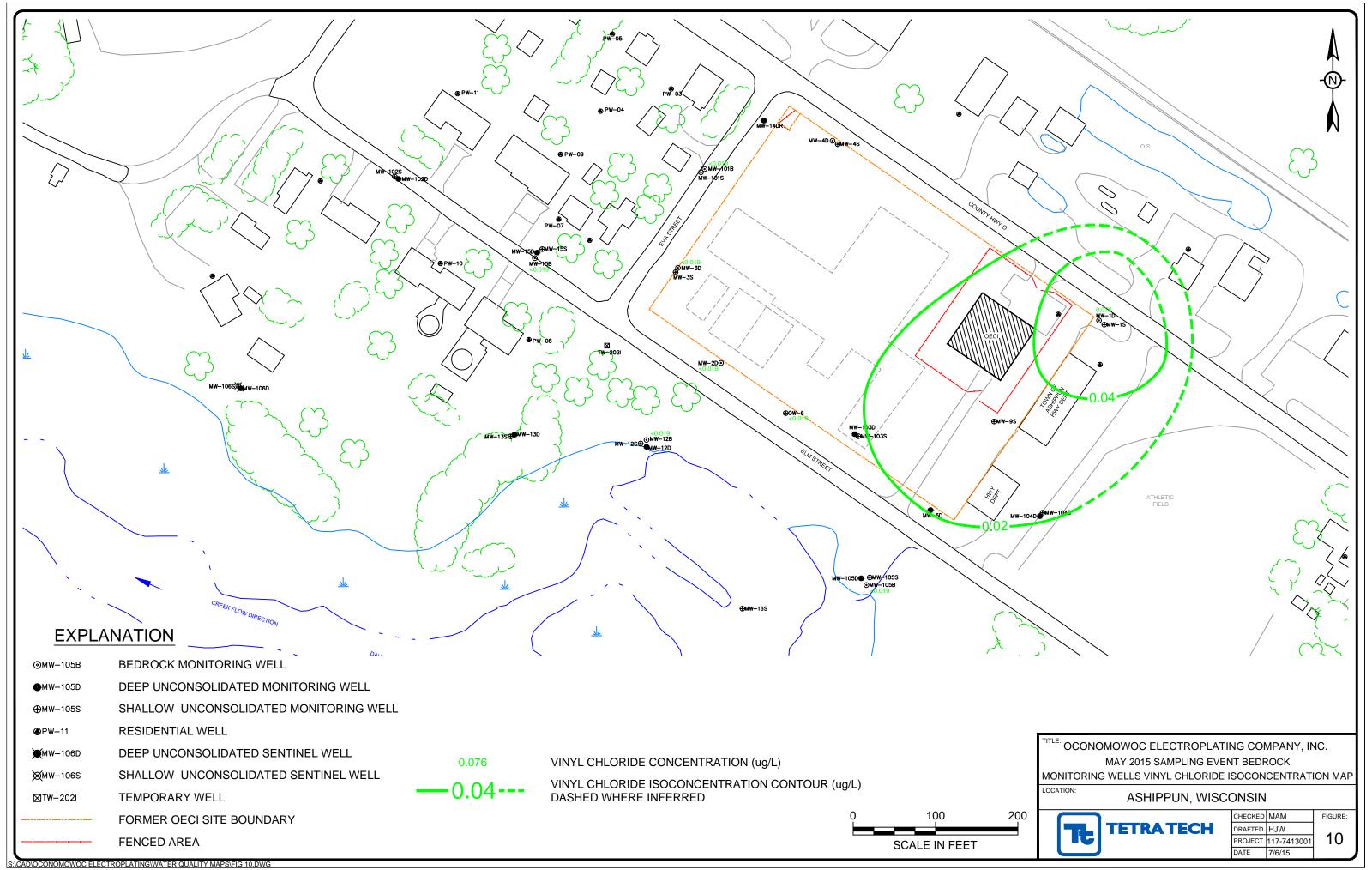












APPENDIX B

LABORATORY ANALYTICAL REPORTS

delivering more than data from your environmental analyses

ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



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ANALYTICAL REPORT

TETRA TECH
MARK MANTHEY

175 N CORPORATE DRIVE

SUITE 100

BROOKFIELD, WI 53045

Project Name: OCONOMOWOC ELECTROPLATING

Project Phase:

Contract #: 2747

Project #: 117-7413001.01

Folder #: 115169

0.050

0.030

0.040

0.060

0.040 *

Purchase Order #:

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Arrival Temperature: See COC

Report Date: 11/20/2015

Date Received: 11/4/2015

Reprint Date: 12/4/2015

11/6/2015 17:41 RLD EPA 8260C

11/6/2015 17:41 RLD EPA 8260C

11/6/2015 17:41 RLD EPA 8260C

RLD EPA 8260C

RLD EPA 8260C

11/6/2015 17:41

11/6/2015 17:41

CT LAB Sample#: 653389 Samp	ole Description: PW-0		License/W	/ell #: 4189/056 Sampled: 11/3/2015 0950				
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Organic Results								
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 17:41 RLD EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 17:41 RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/6/2015 17:41 RLD EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			11/6/2015 17:41 RLD EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			11/6/2015 17:41 RLD EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			11/6/2015 17:41 RLD EPA 8260C
1,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			11/6/2015 17:41 RLD EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 17:41 RLD EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 17:41 RLD EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/6/2015 17:41 RLD EPA 8260C

0.17

0.10

0.14

0.19

0.14

1

1

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

< 0.050

< 0.030

< 0.040

< 0.060

0.048

ug/L

ug/L

ug/L

ug/L

ug/L

1,2,4-Trimethylbenzene

1,2-Dibromoethane

1,2-Dichlorobenzene

1,2-Dichloroethane

1,2-Dibromo-3-chloropropane

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Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115169

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CT LAB Sample#: 653389 Sample Description: PW-09 License/Well #: 4189/056 Sampled: 11/3/2015 0950

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/6/2015 17:41	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/6/2015 17:41	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 17:41	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 17:41	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 17:41	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/6/2015 17:41	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/6/2015 17:41	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/6/2015 17:41	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 17:41	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/6/2015 17:41	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 17:41	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/6/2015 17:41	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/6/2015 17:41	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 17:41	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 17:41	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 17:41	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/6/2015 17:41	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/6/2015 17:41	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/6/2015 17:41	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/6/2015 17:41	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 17:41	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 17:41	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/6/2015 17:41	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 17:41	RLD	EPA 8260C
cis-1,2-Dichloroethene	6.0	ug/L	0.060	0.21	1			11/6/2015 17:41	RLD	EPA 8260C

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Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	st Method
sis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/6/2015 17:41 RL	D EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/6/2015 17:41 RL	D EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 17:41 RL	D EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 17:41 RL	D EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 17:41 RL	D EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 17:41 RL	D EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/6/2015 17:41 RL	D EPA 8260C
sopropylbenzene	< 0.050	ug/L	0.050	0.17	1			11/6/2015 17:41 RL	D EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/6/2015 17:41 RL	D EPA 8260C
Methyl tert-butyl ether	0.62	ug/L	0.040	0.15	1			11/6/2015 17:41 RL	D EPA 8260C
Methylene chloride	< 0.060	ug/L	0.060	0.21	1			11/6/2015 17:41 RL	D EPA 8260C
n-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			11/6/2015 17:41 RL	D EPA 8260C
n-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 17:41 RL	D EPA 8260C
Naphthalene	< 0.050	ug/L	0.050	0.18	1			11/6/2015 17:41 RL	D EPA 8260C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 17:41 RL	D EPA 8260C
o-Isopropyltoluene	< 0.060	ug/L	0.060	0.21	1			11/6/2015 17:41 RL	D EPA 8260C
ec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			11/6/2015 17:41 RL	D EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			11/6/2015 17:41 RL	D EPA 8260C
ert-Butylbenzene	< 0.060	ug/L	0.060	0.19	1			11/6/2015 17:41 RL	D EPA 8260C
etrachloroethene	< 0.060	ug/L	0.060	0.20	1			11/6/2015 17:41 RL	D EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/6/2015 17:41 RL	D EPA 8260C
oluene	0.083	ug/L	0.060 *	0.21	1			11/6/2015 17:41 RL	D EPA 8260C
rans-1,2-Dichloroethene	0.26	ug/L	0.060	0.20	1			11/6/2015 17:41 RL	D EPA 8260C
rans-1,3-Dichloropropene	< 0.014	ug/L	0.014	0.048	1			11/6/2015 17:41 RL	D EPA 8260C
richloroethene	0.068	ug/L	0.030 *	0.10	1			11/6/2015 17:41 RL	D EPA 8260C

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Project Name: OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 17:41 RLD EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/6/2015 17:41 RLD EPA 8260C
Vinyl chloride	0.055	ug/L	0.016	0.052	1			11/6/2015 17:41 RLD EPA 8260C
CT LAB Sample#: 653419 Sample	e Description: PW-0-	4					License/V	Vell #: 4189/052 Sampled: 11/3/2015 1010
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Organic Results								
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 12:53 RLD EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:53 RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 12:53 RLD EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 12:53 RLD EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:53 RLD EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/7/2015 12:53 RLD EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:53 RLD EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 12:53 RLD EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 12:53 RLD EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 12:53 RLD EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 12:53 RLD EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/7/2015 12:53 RLD EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 12:53 RLD EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:53 RLD EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 12:53 RLD EPA 8260C
1,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			11/7/2015 12:53 RLD EPA 8260C

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Project Name: OCONOMOWOC ELECTROPLATING

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CT LAB Sample#: 653419 Sample Description: PW-04	License/Well #: 4189/052	Sampled: 11/3/2015 1010
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 12:53 RLD E	PA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:53 RLD E	PA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 12:53 RLD E	PA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 12:53 RLD E	PA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 12:53 RLD E	PA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 12:53 RLD E	PA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:53 RLD E	PA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 12:53 RLD E	PA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 12:53 RLD E	PA 8260C
1-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 12:53 RLD E	PA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 12:53 RLD E	PA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 12:53 RLD E	PA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 12:53 RLD E	PA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 12:53 RLD E	PA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 12:53 RLD E	PA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 12:53 RLD E	PA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 12:53 RLD E	PA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 12:53 RLD E	PA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 12:53 RLD E	PA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 12:53 RLD E	PA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:53 RLD E	PA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 12:53 RLD E	PA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 12:53 RLD E	PA 8260C
cis-1,2-Dichloroethene	1.2	ug/L	0.060	0.21	1			11/7/2015 12:53 RLD E	PA 8260C
sis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 12:53 RLD E	PA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 12:53	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:53	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:53	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 12:53	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:53	RLD	EPA 8260C
Hexachlorobutadiene	< 0.070	ug/L	0.070	0.24	1			11/7/2015 12:53	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 12:53	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 12:53	RLD	EPA 8260C
Methyl tert-butyl ether	0.48	ug/L	0.040	0.15	1			11/7/2015 12:53	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:53	RLD	EPA 8260C
n-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			11/7/2015 12:53	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 12:53	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 12:53	RLD	EPA 8260C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 12:53	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:53	RLD	EPA 8260C
sec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			11/7/2015 12:53	RLD	EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			11/7/2015 12:53	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:53	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 12:53	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 12:53	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:53	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.066	ug/L	0.060 *	0.20	1			11/7/2015 12:53	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/7/2015 12:53	RLD	EPA 8260C
Trichloroethene	0.086	ug/L	0.030 *	0.10	1			11/7/2015 12:53	RLD	EPA 8260C
Trichlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			11/7/2015 12:53	RLD	EPA 8260C

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11/16/2015 21:38 NAH EPA 6010C

11/16/2015 21:38 NAH EPA 6010C

11/13/2015 11:00

11/13/2015 11:00

CT LAB Sample#: 653419 Sample	e Description: PW-0	4					License/Well #: 4189/052 Sampled: 11/3/2015 10
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Method Date/Time Date/Time
Vinyl acetate	<0.50	ug/L	0.50	1.6	1		11/7/2015 12:53 RLD EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1		11/7/2015 12:53 RLD EPA 8260C
CT LAB Sample#: 653420 Sample	e Description: MW-1	ID					License/Well #: 4189/002 Sampled: 11/3/2015 11
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Method Date/Time Date/Time
Field Results							
Conductivity (Field)	531	umhos/cm	N/A	N/A	1		12/4/2015 12:30 PML
Dissolved Oxygen (Field)	1.26	mg/L	N/A	N/A	1		12/4/2015 12:30 PML
pH (Field)	8.33	S.U.	N/A	N/A	1		12/4/2015 12:30 PML
Temperature (Field)	15.81	Deg. C	N/A	N/A	1		12/4/2015 12:30 PML
Depth to Groundwater (Field)	6.94	Feet	N/A	N/A	1		12/4/2015 12:30 PML
Groundwater Elevation (Field)	846.20	Feet MSL	N/A	N/A	1		12/4/2015 12:30 PML
Turbidity (Field)	0		N/A	N/A	1		12/4/2015 12:30 PML
OX/REDOX (Field)	-133	MV	N/A	N/A	1		12/4/2015 12:30 PML
Inorganic Results							
Alkalinity Total	370	mg/L	5.0	18	1		11/9/2015 14:08 MER EPA 310.2
Total Chloride	5.8	mg/L	1.0	3.5	1		11/7/2015 05:05 JJF EPA 9056A
Total Sulfate	<1.0	mg/L	1.0	3.4	1		11/7/2015 05:05 JJF EPA 9056A
Total Organic Carbon	0.46	mg/L	0.40 *	1.4	1		11/6/2015 23:25 JJF EPA 9060A
Metals Results							
					_		

0.065

4.7

0.020

1.4

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

mg/L

ug/L

3.14

18.2

Total Iron

Total Manganese

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TETRA TECH

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 13:11	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 13:11	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 13:11	BMS	Mod RSK 175
Methane	1900	ug/L	100	350	250		11/11/2015 07:30	11/11/2015 13:20	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 18:10	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:10	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/6/2015 18:10	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/6/2015 18:10	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:10	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/6/2015 18:10	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:10	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 18:10	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 18:10	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/6/2015 18:10	RLD	EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/6/2015 18:10	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/6/2015 18:10	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 18:10	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:10	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 18:10	RLD	EPA 8260C
1,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			11/6/2015 18:10	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/6/2015 18:10	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:10	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 18:10	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 18:10	RLD	EPA 8260C

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TETRA TECH

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	alyst	Method
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/6/2015 18:10	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/6/2015 18:10	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:10	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 18:10	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/6/2015 18:10	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 18:10	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/6/2015 18:10	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/6/2015 18:10	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 18:10	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 18:10	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 18:10	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/6/2015 18:10	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/6/2015 18:10	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/6/2015 18:10	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/6/2015 18:10	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 18:10	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:10	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/6/2015 18:10	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 18:10	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:10	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/6/2015 18:10	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/6/2015 18:10	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:10	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:10	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 18:10	RLD	EPA 8260C

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CT LAB Sample#: 653420 Sample Description: MW-1D License/Well #: 4189/002 Sampled: 11/3/2015 1120

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Ethylbenzene	0.067	ug/L	0.060 *	0.21	1			11/6/2015 18:10 RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/6/2015 18:10 RLD	EPA 8260C
Isopropylbenzene	0.071	ug/L	0.050 *	0.17	1			11/6/2015 18:10 RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/6/2015 18:10 RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 18:10 RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:10 RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 18:10 RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 18:10 RLD	EPA 8260C
Naphthalene	0.065	ug/L	0.050 *	0.18	1			11/6/2015 18:10 RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/6/2015 18:10 RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:10 RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/6/2015 18:10 RLD	EPA 8260C
Styrene	0.19	ug/L	0.050	0.15	1			11/6/2015 18:10 RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:10 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 18:10 RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/6/2015 18:10 RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:10 RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 18:10 RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/6/2015 18:10 RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			11/6/2015 18:10 RLD	EPA 8260C
Trichlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			11/6/2015 18:10 RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/6/2015 18:10 RLD	EPA 8260C
Vinyl chloride	0.14	ug/L	0.016	0.052	1			11/6/2015 18:10 RLD	EPA 8260C

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CT LAB Sample#: 653425 Sample Description: MW-1D

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Sampled: 11/3/2015 1120

License/Well #: 4189/002

CT LAB Sample#. 655425 Sample	Description: WWW 1	<u> </u>	License/Weil #. 4169/002 Sampled. 11/3/2013							
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Metals Results										
Dissolved Iron	2.88	mg/L	0.010	0.032	1			11/5/2015 19:04	NAH	EPA 6010C
Dissolved Manganese	22.8	ug/L	1.6	5.3	1			11/5/2015 19:04	NAH	EPA 6010C
CT LAB Sample#: 653427 Sample	Description: MW-1	S					License/V	Vell #: 4189/001 S	Sampled	: 11/3/2015 1200
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Field Results										
Conductivity (Field)	1380	umhos/cm	N/A	N/A	1			12/4/2015 12:30	PML	
Dissolved Oxygen (Field)	0.46	mg/L	N/A	N/A	1			12/4/2015 12:30	PML	
pH (Field)	7.09	S.U.	N/A	N/A	1			12/4/2015 12:30	PML	
Temperature (Field)	17.22	Deg. C	N/A	N/A	1			12/4/2015 12:30	PML	
Depth to Groundwater (Field)	6.57	Feet	N/A	N/A	1			12/4/2015 12:30	PML	
Groundwater Elevation (Field)	846.85	Feet MSL	N/A	N/A	1			12/4/2015 12:30	PML	
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12:30	PML	
OX/REDOX (Field)	69	MV	N/A	N/A	1			12/4/2015 12:30	PML	
Inorganic Results										
Alkalinity Total	380	mg/L	5.0	18	1			11/9/2015 14:10	MER	EPA 310.2
Total Chloride	230	mg/L	4.7	17	5			11/9/2015 12:39	JJF	EPA 9056A
Total Sulfate	49	mg/L	1.0	3.4	1			11/7/2015 05:26	JJF	EPA 9056A
Total Organic Carbon	1.7	mg/L	0.40	1.4	1			11/6/2015 23:36	JJF	EPA 9060A
Metals Results										
Total Iron	<0.020	mg/L	0.020	0.065	1		11/13/2015 11:00	11/16/2015 21:59	NAH	EPA 6010C
Total Manganese	76.7	ug/L	1.4	4.7	1	Y,M	11/13/2015 11:00	11/16/2015 21:59	NAH	EPA 6010C

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TETRA TECH

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CT LAB Sample#: 653427 Sample Description: MW-1S License/Well #: 4189/001 Sampled: 11/3/2015 1200

cetylene <0.23	Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	nalyst	Method
tithane	Organic Results										
thene	Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 09:48	BMS	Mod RSK 175
Methane 8.2 ug/L 0.40 1.4 1 11/11/2015 07:30 11/11/2015 09:48 BMS Mod RSK 1 1.1.2-Tetrachloroethane <0.050 ug/L 0.050 0.18 1 11/12/15 07:30 11/11/2015 18:40 RLD EPA 8260C 1.1.2-Tetrachloroethane <0.060 ug/L 0.060 0.21 1 11/16/2015 18:40 RLD EPA 8260C 1.2.2-Tetrachloroethane <0.050 ug/L 0.050 0.17 1 11/16/2015 18:40 RLD EPA 8260C 1.1.2-Trichloroethane <0.050 ug/L 0.050 0.17 1 11/16/2015 18:40 RLD EPA 8260C 1.1.2-Trichloroethane <0.050 ug/L 0.060 0.19 1 11/16/2015 18:40 RLD EPA 8260C 1.1.2-Trichloroethane <0.070 ug/L 0.060 0.19 1 11/16/2015 18:40 RLD EPA 8260C 1.1.2-Trichloroethane <0.050 ug/L 0.060 0.19 1 11/16/2015 18:40 RLD EPA 8260C 1.1.2-Trichloroethane <0.050 ug/L 0.060 0.19 1 11/16/2015 18:40 RLD EPA 8260C 1.2.3-Trichloroethane <0.050 ug/L 0.060 0.18 1 11/16/2015 18:40 RLD EPA 8260C 1.2.3-Trichloroethane <0.050 ug/L 0.040 0.13 1 11/16/2015 18:40 RLD EPA 8260C 1.2.3-Trichloroethane <0.040 ug/L 0.040 0.13 1 11/16/2015 18:40 RLD EPA 8260C 1.2.3-Trichloroethane <0.040 ug/L 0.040 0.13 1 11/16/2015 18:40 RLD EPA 8260C 1.2.3-Trichloroethane <0.040 ug/L 0.040 0.13 1 11/16/2015 18:40 RLD EPA 8260C 1.2.3-Trichloroethane <0.050 ug/L 0.050 0.17 1 11/16/2015 18:40 RLD EPA 8260C 1.2.2-Trichloroethane <0.050 ug/L 0.050 0.17 1 11/16/2015 18:40 RLD EPA 8260C 1.2.2-Trichloroethane <0.050 ug/L 0.040 0.14 1 11/16/2015 18:40 RLD EPA 8260C 1.2.2-Trichloroethane <0.050 ug/L 0.040 0.14 1 11/16/2015 18:40 RLD EPA 8260C 1.2-Trichloroethane <0.060 ug/L 0.060 0.20 1 11/16/2015 18:40 RLD EPA 8260C 1.2-Trichloroethane <0.060 ug/L 0.060 0.20 1 11/16/2015 18:40 RLD EPA 8260C 1.2-Trichloroethane <0.060 ug/L 0.060 0.20 1 11/16/20	Ethane	< 0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 09:48	BMS	Mod RSK 175
.1,1,2-Tetrachloroethane	Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 09:48	BMS	Mod RSK 175
.1.1-Trichloroethane	Methane	8.2	ug/L	0.40	1.4	1		11/11/2015 07:30	11/11/2015 09:48	BMS	Mod RSK 175
.1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 18:40	RLD	EPA 8260C
.1,2-Trichloroethane	1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:40	RLD	EPA 8260C
1. Dichloroethane	1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/6/2015 18:40	RLD	EPA 8260C
1. Dichloroethene	1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/6/2015 18:40	RLD	EPA 8260C
,1-Dichloropropene	1,1-Dichloroethane	0.11	ug/L	0.060 *	0.19	1			11/6/2015 18:40	RLD	EPA 8260C
,2,3-Trichlorobenzene	,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/6/2015 18:40	RLD	EPA 8260C
,2,3-Trichloropropane <0.040 ug/L 0.040 0.13 1 11/6/2015 18:40 RLD EPA 8260C ,2,4-Trichlorobenzene <0.040 ug/L 0.040 0.13 1 11/6/2015 18:40 RLD EPA 8260C ,2,4-Trimethylbenzene <0.050 ug/L 0.050 0.17 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dibromo-3-chloropropane <0.030 ug/L 0.030 0.10 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dibromoethane <0.040 ug/L 0.040 0.14 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dichlorobenzene <0.060 ug/L 0.060 0.19 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dichloropropane <0.040 ug/L 0.040 0.14 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dichloropropane <0.040 ug/L 0.040 0.14 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dichloropropane <0.040 ug/L 0.040 0.14 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dichloropropane <0.040 ug/L 0.040 0.14 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dichloropropane <0.060 ug/L 0.060 0.20 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Trimethylbenzene <0.060 ug/L 0.060 0.20 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.20 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.20 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 1 11/6/2015 18:40 RLD EP	,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:40	RLD	EPA 8260C
,2,4-Trichlorobenzene <0.040 ug/L 0.040 0.13 1 11/6/2015 18:40 RLD EPA 8260C	,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 18:40	RLD	EPA 8260C
,2,4-Trimethylbenzene <0.050 ug/L 0.050 0.17 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dibromo-3-chloropropane <0.030 ug/L 0.030 0.10 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dibromoethane <0.040 ug/L 0.040 0.14 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dichlorobenzene <0.060 ug/L 0.060 0.19 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dichloroethane <0.040 ug/L 0.040 0.14 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dichloroethane <0.040 ug/L 0.040 0.14 1 11/6/2015 18:40 RLD EPA 8260C ,2-Dichloropropane <0.060 ug/L 0.060 0.20 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Trimethylbenzene <0.060 ug/L 0.060 0.20 1 11/6/2015 18:40 RLD EPA 8260C ,3-Dichlorobenzene <0.060 ug/L 0.060 0.20 1 11/6/2015 18:40 RLD EPA 8260C ,3-Dichlorobenzene <0.060 ug/L 0.060 0.20 1 11/6/2015 18:40 RLD EPA 8260C ,3-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C	1,2,3-Trichloropropane	< 0.040	ug/L	0.040	0.13	1			11/6/2015 18:40	RLD	EPA 8260C
,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene	< 0.040	ug/L	0.040	0.13	1			11/6/2015 18:40	RLD	EPA 8260C
,2-Dibromoethane	,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/6/2015 18:40	RLD	EPA 8260C
,2-Dichlorobenzene	,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/6/2015 18:40	RLD	EPA 8260C
,2-Dichloroethane	,2-Dibromoethane	< 0.040	ug/L	0.040	0.14	1			11/6/2015 18:40	RLD	EPA 8260C
,2-Dichloropropane <0.060 ug/L 0.060 0.20 1 11/6/2015 18:40 RLD EPA 8260C ,3,5-Trimethylbenzene <0.060 ug/L 0.060 0.20 1 11/6/2015 18:40 RLD EPA 8260C ,3-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C	1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:40	RLD	EPA 8260C
,3,5-Trimethylbenzene <0.060 ug/L 0.060 0.20 1 11/6/2015 18:40 RLD EPA 8260C ,3-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 11/6/2015 18:40 RLD EPA 8260C	,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 18:40	RLD	EPA 8260C
,3-Dichlorobenzene <0.060 ug/L 0.060 0.21 1 1 11/6/2015 18:40 RLD EPA 8260C	,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/6/2015 18:40	RLD	EPA 8260C
	,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/6/2015 18:40	RLD	EPA 8260C
,3-Dichloropropane <0.040 ug/L 0.040 0.13 1 11/6/2015 18:40 RLD EPA 8260C	1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:40	RLD	EPA 8260C
	1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 18:40	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analysis Analysis Analysis	nalyst	Method
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 18:40	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/6/2015 18:40	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/6/2015 18:40	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:40	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 18:40	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/6/2015 18:40	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 18:40	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/6/2015 18:40	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/6/2015 18:40	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 18:40	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 18:40	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 18:40	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/6/2015 18:40	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/6/2015 18:40	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/6/2015 18:40	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/6/2015 18:40	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 18:40	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:40	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/6/2015 18:40	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 18:40	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:40	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/6/2015 18:40	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/6/2015 18:40	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:40	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:40	RLD	EPA 8260C

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CT LAB Sample#: 653427 Sample Description: MW-1S License/Well #: 4189/001 Sampled: 11/3/2015 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 18:40	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:40	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/6/2015 18:40	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 18:40	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/6/2015 18:40	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 18:40	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:40	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 18:40	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 18:40	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/6/2015 18:40	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/6/2015 18:40	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:40	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/6/2015 18:40	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/6/2015 18:40	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 18:40	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 18:40	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/6/2015 18:40	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 18:40	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 18:40	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/6/2015 18:40	RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			11/6/2015 18:40	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 18:40	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/6/2015 18:40	RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/6/2015 18:40	RLD	EPA 8260C

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CT LAB Sample#: 65342	Sample Description: MW-1S	License/Well #: 4189/001	Sampled: 11/3/2015 1200
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	0.406	mg/L	0.010	0.032	1			11/5/2015 19:1	0 NAH	EPA 6010C
Dissolved Manganese	97.2	ug/L	1.6	5.3	1			11/5/2015 19:1	0 NAH	EPA 6010C
CT LAB Sample#: 653429 Sample	e Description: MW-9	9S					License/V	Vell #: 4189/014	Sampled	: 11/3/2015 1255
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Conductivity (Field)	1680	umhos/cm	N/A	N/A	1			12/4/2015 12:3	0 PML	
Dissolved Oxygen (Field)	0.43	mg/L	N/A	N/A	1			12/4/2015 12:3	0 PML	
pH (Field)	7.41	S.U.	N/A	N/A	1			12/4/2015 12:3	0 PML	
Temperature (Field)	17.35	Deg. C	N/A	N/A	1			12/4/2015 12:3	0 PML	
Depth to Groundwater (Field)	5.28	Feet	N/A	N/A	1			12/4/2015 12:3	0 PML	
Groundwater Elevation (Field)	846.29	Feet MSL	N/A	N/A	1			12/4/2015 12:3	0 PML	
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12:3	0 PML	
OX/REDOX (Field)	-37	MV	N/A	N/A	1			12/4/2015 12:3	0 PML	
Inorganic Results										
Alkalinity Total	340	mg/L	5.0	18	1			11/9/2015 14:1	1 MER	EPA 310.2
Total Chloride	340	mg/L	5.0	18	5			11/7/2015 05:4	7 JJF	EPA 9056A
Total Sulfate	56	mg/L	5.0	17	5			11/7/2015 05:4	7 JJF	EPA 9056A
Total Organic Carbon	1.2	mg/L	0.40 *	1.4	1			11/6/2015 23:4	7 JJF	EPA 9060A
Metals Results										
Total Iron	0.495	mg/L	0.020	0.065	1		11/13/2015 11:00	11/16/2015 22:2	2 NAH	EPA 6010C
Total Manganese	73.7	ug/L	1.4	4.7	1		11/13/2015 11:00	11/16/2015 22:2	2 NAH	EPA 6010C

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CT LAB Sample#: 653429 Sample Description: MW-9S License/Well #: 4189/014 Sampled: 11/3/2015 1255

Analyte 	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	alyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 09:57	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 09:57	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 09:57	BMS	Mod RSK 175
Methane	6.3	ug/L	0.40	1.4	1		11/11/2015 07:30	11/11/2015 09:57	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 23:17	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:17	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/6/2015 23:17	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/6/2015 23:17	RLD	EPA 8260C
1,1-Dichloroethane	0.20	ug/L	0.060	0.19	1			11/6/2015 23:17	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/6/2015 23:17	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/6/2015 23:17	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 23:17	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 23:17	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/6/2015 23:17	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 23:17	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/6/2015 23:17	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 23:17	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 23:17	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 23:17	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/6/2015 23:17	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/6/2015 23:17	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:17	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 23:17	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 23:17 RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/6/2015 23:17 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/6/2015 23:17 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/6/2015 23:17 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 23:17 RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/6/2015 23:17 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 23:17 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/6/2015 23:17 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/6/2015 23:17 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 23:17 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 23:17 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 23:17 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/6/2015 23:17 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/6/2015 23:17 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/6/2015 23:17 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/6/2015 23:17 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 23:17 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:17 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/6/2015 23:17 RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 23:17 RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:17 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/6/2015 23:17 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/6/2015 23:17 RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 23:17 RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 23:17 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Anal Date/Time	yst Method
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 23:17 F	RLD EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:17 F	RLD EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/6/2015 23:17 F	RLD EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 23:17 F	RLD EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/6/2015 23:17 F	RLD EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 23:17 F	RLD EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:17 F	RLD EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 23:17 F	RLD EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 23:17 F	RLD EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/6/2015 23:17 F	RLD EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/6/2015 23:17 F	RLD EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:17 F	RLD EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/6/2015 23:17 F	RLD EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/6/2015 23:17 F	RLD EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 23:17 F	RLD EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 23:17 F	RLD EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/6/2015 23:17 F	RLD EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:17 F	RLD EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 23:17 F	RLD EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/6/2015 23:17 F	RLD EPA 8260C
Trichloroethene	0.24	ug/L	0.030	0.10	1			11/6/2015 23:17 F	RLD EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 23:17 F	RLD EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/6/2015 23:17 F	RLD EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/6/2015 23:17 F	RLD EPA 8260C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

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CT LAB Sample#: 653430 Sample Description: MW-9S Sampled: 11/3/2015 1255 License/Well #: 4189/014

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	nalyst Method
Metals Results									
Dissolved Iron	0.590	mg/L	0.010	0.032	1			11/5/2015 19:16	NAH EPA 6010C
Dissolved Manganese	82.2	ug/L	1.6	5.3	1			11/5/2015 19:16	NAH EPA 6010C
CT LAB Sample#: 653431 San	nple Description: MW-5	iD					License/We	ell #: 4189/010 Sa	ampled: 11/3/2015 1340

LOD LOQ Analyte Result Units Dilution Qualifier Prep Analysis Analyst Method Date/Time Date/Time

Field Results										
Conductivity (Field)	895	umhos/cm	N/A	N/A	1		12/4/2015	12:30	PML	
Dissolved Oxygen (Field)	0.59	mg/L	N/A	N/A	1		12/4/2015	12:30	PML	
pH (Field)	7.45	S.U.	N/A	N/A	1		12/4/2015	12:30	PML	
Temperature (Field)	18.15	Deg. C	N/A	N/A	1		12/4/2015	12:30	PML	
Depth to Groundwater (Field)	3.26	Feet	N/A	N/A	1		12/4/2015	12:30	PML	
Groundwater Elevation (Field)	845.54	Feet MSL	N/A	N/A	1		12/4/2015	12:30	PML	
Turbidity (Field)	9.4		N/A	N/A	1		12/4/2015	12:30	PML	
OX/REDOX (Field)	-65	MV	N/A	N/A	1		12/4/2015	12:30	PML	
Inorganic Results										
Alkalinity Total	400	mg/L	5.0	18	1		11/9/2015	14:12	MER	EPA 310.2
Total Chloride	140	mg/L	2.0	7.0	2		11/7/2015	06:07	JJF	EPA 9056A
Total Sulfate	50	mg/L	2.0	6.8	2		11/7/2015	06:07	JJF	EPA 9056A
Total Organic Carbon	0.65	mg/L	0.40 *	1.4	1		11/6/2015	23:58	JJF	EPA 9060A
Metals Results										
Total Iron	1.60	mg/L	0.020	0.065	1	11/13/2015 11:00	11/16/2015	22:28	NAH	EPA 6010C
Total Manganese	61.9	ug/L	1.4	4.7	1	11/13/2015 11:00	11/16/2015	22:28	NAH	EPA 6010C

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Analyte 	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Anal Date/Time	yst Method
Organic Results									
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 13:39 E	BMS Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 13:39 E	BMS Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 13:39 E	BMS Mod RSK 175
Methane	44	ug/L	2.0	7.0	5		11/11/2015 07:30	11/11/2015 13:48 E	BMS Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.90	5			11/7/2015 00:14 F	RLD EPA 8260C
1,1,1-Trichloroethane	<0.30	ug/L	0.30	1.1	5			11/7/2015 00:14 F	RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.10	ug/L	0.10	0.33	5			11/7/2015 00:14 F	RLD EPA 8260C
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.85	5			11/7/2015 00:14 F	RLD EPA 8260C
1,1-Dichloroethane	4.4	ug/L	0.30	0.95	5			11/7/2015 00:14 F	RLD EPA 8260C
1,1-Dichloroethene	0.35	ug/L	0.35 *	1.2	5			11/7/2015 00:14 F	RLD EPA 8260C
1,1-Dichloropropene	<0.30	ug/L	0.30	0.95	5			11/7/2015 00:14 F	RLD EPA 8260C
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.80	5			11/7/2015 00:14 F	RLD EPA 8260C
1,2,3-Trichloropropane	<0.20	ug/L	0.20	0.65	5			11/7/2015 00:14 F	RLD EPA 8260C
1,2,4-Trichlorobenzene	<0.20	ug/L	0.20	0.65	5			11/7/2015 00:14 F	RLD EPA 8260C
1,2,4-Trimethylbenzene	<0.25	ug/L	0.25	0.85	5			11/7/2015 00:14 F	RLD EPA 8260C
1,2-Dibromo-3-chloropropane	<0.15	ug/L	0.15	0.50	5			11/7/2015 00:14 F	RLD EPA 8260C
1,2-Dibromoethane	<0.20	ug/L	0.20	0.70	5			11/7/2015 00:14 F	RLD EPA 8260C
1,2-Dichlorobenzene	<0.30	ug/L	0.30	0.95	5			11/7/2015 00:14 F	RLD EPA 8260C
1,2-Dichloroethane	1.3	ug/L	0.20	0.70	5			11/7/2015 00:14 F	RLD EPA 8260C
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	5			11/7/2015 00:14 F	RLD EPA 8260C
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.0	5			11/7/2015 00:14 F	RLD EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.1	5			11/7/2015 00:14 F	RLD EPA 8260C
1,3-Dichloropropane	<0.20	ug/L	0.20	0.65	5			11/7/2015 00:14 F	RLD EPA 8260C

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CT LAB Sample#: 653431 Sample Description: MW-5D Sampled: 11/3/2015 1340 License/Well #: 4189/010

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,4-Dichlorobenzene	<0.25	ug/L	0.25	0.80	5			11/7/2015 00:14 RLD	EPA 8260C
2,2-Dichloropropane	<0.20	ug/L	0.20	0.60	5			11/7/2015 00:14 RLD	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	5			11/7/2015 00:14 RLD	EPA 8260C
2-Chlorotoluene	<0.30	ug/L	0.30	0.95	5			11/7/2015 00:14 RLD	EPA 8260C
-Hexanone	<2.0	ug/L	2.0	7.0	5			11/7/2015 00:14 RLD	EPA 8260C
-Chlorotoluene	<0.25	ug/L	0.25	0.90	5			11/7/2015 00:14 RLD	EPA 8260C
-Methyl-2-pentanone	<2.0	ug/L	2.0	7.0	5			11/7/2015 00:14 RLD	EPA 8260C
cetone	<4.5	ug/L	4.5	16	5			11/7/2015 00:14 RLD	EPA 8260C
Benzene	<0.30	ug/L	0.30	0.90	5			11/7/2015 00:14 RLD	EPA 8260C
romobenzene	<0.20	ug/L	0.20	0.70	5			11/7/2015 00:14 RLD	EPA 8260C
romochloromethane	<0.085	ug/L	0.085	0.29	5			11/7/2015 00:14 RLD	EPA 8260C
Bromodichloromethane	<0.085	ug/L	0.085	0.29	5			11/7/2015 00:14 RLD	EPA 8260C
Bromoform	<0.090	ug/L	0.090	0.30	5			11/7/2015 00:14 RLD	EPA 8260C
Bromomethane	<0.45	ug/L	0.45	1.5	5			11/7/2015 00:14 RLD	EPA 8260C
Carbon disulfide	<0.55	ug/L	0.55	1.9	5			11/7/2015 00:14 RLD	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.0	5			11/7/2015 00:14 RLD	EPA 8260C
Chlorobenzene	<0.20	ug/L	0.20	0.70	5			11/7/2015 00:14 RLD	EPA 8260C
Chloroethane	<0.30	ug/L	0.30	1.1	5			11/7/2015 00:14 RLD	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.0	5			11/7/2015 00:14 RLD	EPA 8260C
Chloromethane	<0.25	ug/L	0.25	0.90	5			11/7/2015 00:14 RLD	EPA 8260C
is-1,2-Dichloroethene	51	ug/L	0.30	1.1	5			11/7/2015 00:14 RLD	EPA 8260C
is-1,3-Dichloropropene	<0.075	ug/L	0.075	0.25	5			11/7/2015 00:14 RLD	EPA 8260C
Dibromochloromethane	<0.080	ug/L	0.080	0.27	5			11/7/2015 00:14 RLD	EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	0.95	5			11/7/2015 00:14 RLD	EPA 8260C
ichlorodifluoromethane	<0.30	ug/L	0.30	0.95	5			11/7/2015 00:14 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Diisopropyl ether	<0.20	ug/L	0.20	0.75	5			11/7/2015 00:14 RLD	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	5			11/7/2015 00:14 RLD	EPA 8260C
Hexachlorobutadiene	<0.35	ug/L	0.35	1.2	5			11/7/2015 00:14 RLD	EPA 8260C
Isopropylbenzene	<0.25	ug/L	0.25	0.85	5			11/7/2015 00:14 RLD	EPA 8260C
m & p-Xylene	<0.60	ug/L	0.60	2.0	5			11/7/2015 00:14 RLD	EPA 8260C
Methyl tert-butyl ether	0.21	ug/L	0.20 *	0.75	5			11/7/2015 00:14 RLD	EPA 8260C
Methylene chloride	<0.30	ug/L	0.30	1.1	5			11/7/2015 00:14 RLD	EPA 8260C
n-Butylbenzene	<0.25	ug/L	0.25	0.85	5			11/7/2015 00:14 RLD	EPA 8260C
n-Propylbenzene	<0.25	ug/L	0.25	0.80	5			11/7/2015 00:14 RLD	EPA 8260C
Naphthalene	<0.25	ug/L	0.25	0.90	5			11/7/2015 00:14 RLD	EPA 8260C
o-Xylene	<0.25	ug/L	0.25	0.80	5			11/7/2015 00:14 RLD	EPA 8260C
p-Isopropyltoluene	<0.30	ug/L	0.30	1.1	5			11/7/2015 00:14 RLD	EPA 8260C
sec-Butylbenzene	<0.25	ug/L	0.25	0.90	5			11/7/2015 00:14 RLD	EPA 8260C
Styrene	<0.25	ug/L	0.25	0.75	5			11/7/2015 00:14 RLD	EPA 8260C
tert-Butylbenzene	<0.30	ug/L	0.30	0.95	5			11/7/2015 00:14 RLD	EPA 8260C
Tetrachloroethene	<0.30	ug/L	0.30	1.0	5			11/7/2015 00:14 RLD	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	11	5			11/7/2015 00:14 RLD	EPA 8260C
Toluene	<0.30	ug/L	0.30	1.1	5			11/7/2015 00:14 RLD	EPA 8260C
trans-1,2-Dichloroethene	5.1	ug/L	0.30	1.0	5			11/7/2015 00:14 RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.070	ug/L	0.070	0.24	5			11/7/2015 00:14 RLD	EPA 8260C
Trichloroethene	15	ug/L	0.15	0.50	5			11/7/2015 00:14 RLD	EPA 8260C
Trichlorofluoromethane	<0.25	ug/L	0.25	0.90	5			11/7/2015 00:14 RLD	EPA 8260C
Vinyl acetate	<2.5	ug/L	2.5	8.0	5			11/7/2015 00:14 RLD	EPA 8260C
Vinyl chloride	2.3	ug/L	0.080	0.26	5			11/7/2015 00:14 RLD	EPA 8260C

CT LAB Sample#: 653432 Sample Description: MW-5D

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License/Well #: 4189/010 Sampled: 11/3/2015 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep		Analys	t Method
							Date/Time	Date/Tim	<u> </u>	
Metals Results										
Dissolved Iron	1.69	mg/L	0.010	0.032	1			11/5/2015 1	9:22 NA	H EPA 6010C
Dissolved Manganese	65.7	ug/L	1.6	5.3	1			11/5/2015 1	9:22 NA	H EPA 6010C
CT LAB Sample#: 653433 Sample	e Description: MW-1	105S					License/V	Vell #: 4189/043	Sample	ed: 11/3/2015 1505
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Tim		t Method
Field Results										
Conductivity (Field)	1910	umhos/cm	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Dissolved Oxygen (Field)	0.37	mg/L	N/A	N/A	1			12/4/2015 1	2:30 PM	L
pH (Field)	7.24	S.U.	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Temperature (Field)	20.20	Deg. C	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Depth to Groundwater (Field)	3.82	Feet	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Groundwater Elevation (Field)	845.19	Feet MSL	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Turbidity (Field)	9.3		N/A	N/A	1			12/4/2015 1	2:30 PM	L
OX/REDOX (Field)	-48	MV	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Inorganic Results										
Alkalinity Total	400	mg/L	5.0	18	1			11/9/2015 1	4:13 ME	R EPA 310.2
Total Chloride	400	mg/L	10	35	10			11/7/2015 0	6:28 JJF	EPA 9056A
Total Sulfate	56	mg/L	10	34	10			11/7/2015 0	6:28 JJF	EPA 9056A
Total Organic Carbon	2.4	mg/L	0.40	1.4	1			11/7/2015 0	0:11 JJF	EPA 9060A
Metals Results										
Total Iron	2.27	mg/L	0.020	0.065	1		11/13/2015 11:00	11/16/2015 2	2:34 NA	H EPA 6010C
Total Manganese	254	ug/L	1.4	4.7	1		11/13/2015 11:00	11/16/2015 2	2:34 NA	H EPA 6010C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	Analyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 13:57	BMS	Mod RSK 175
Ethane	2.4	ug/L	0.90 *	2.9	1		11/11/2015 07:30	11/11/2015 13:57	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 13:57	BMS	Mod RSK 175
Methane	310	ug/L	20	70	50		11/11/2015 07:30	11/11/2015 14:05	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:25	RLD	EPA 8260C
1,1,1-Trichloroethane	<3.0	ug/L	3.0	11	50			11/8/2015 10:25	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	3.3	50			11/8/2015 10:25	RLD	EPA 8260C
1,1,2-Trichloroethane	<2.5	ug/L	2.5	8.5	50			11/8/2015 10:25	RLD	EPA 8260C
1,1-Dichloroethane	48	ug/L	3.0	9.5	50			11/8/2015 10:25	RLD	EPA 8260C
1,1-Dichloroethene	7.6	ug/L	3.5 *	12	50			11/8/2015 10:25	RLD	EPA 8260C
1,1-Dichloropropene	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:25	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.5	ug/L	2.5	8.0	50			11/8/2015 10:25	RLD	EPA 8260C
1,2,3-Trichloropropane	<2.0	ug/L	2.0	6.5	50			11/8/2015 10:25	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.0	ug/L	2.0	6.5	50			11/8/2015 10:25	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.5	ug/L	2.5	8.5	50			11/8/2015 10:25	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.5	ug/L	1.5	5.0	50			11/8/2015 10:25	RLD	EPA 8260C
1,2-Dibromoethane	<2.0	ug/L	2.0	7.0	50			11/8/2015 10:25	RLD	EPA 8260C
1,2-Dichlorobenzene	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:25	RLD	EPA 8260C
1,2-Dichloroethane	<2.0	ug/L	2.0	7.0	50			11/8/2015 10:25	RLD	EPA 8260C
1,2-Dichloropropane	<3.0	ug/L	3.0	10	50			11/8/2015 10:25	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<3.0	ug/L	3.0	10	50			11/8/2015 10:25	RLD	EPA 8260C
,3-Dichlorobenzene	<3.0	ug/L	3.0	11	50			11/8/2015 10:25	RLD	EPA 8260C
,3-Dichloropropane	<2.0	ug/L	2.0	6.5	50			11/8/2015 10:25	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
,4-Dichlorobenzene	<2.5	ug/L	2.5	8.0	50			11/8/2015 10:25	RLD	EPA 8260C
2,2-Dichloropropane	<2.0	ug/L	2.0	6.0	50			11/8/2015 10:25	RLD	EPA 8260C
2-Butanone	<40	ug/L	40	140	50			11/8/2015 10:25	RLD	EPA 8260C
2-Chlorotoluene	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:25	RLD	EPA 8260C
2-Hexanone	<20	ug/L	20	70	50			11/8/2015 10:25	RLD	EPA 8260C
l-Chlorotoluene	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:25	RLD	EPA 8260C
l-Methyl-2-pentanone	<20	ug/L	20	70	50			11/8/2015 10:25	RLD	EPA 8260C
Acetone	<45	ug/L	45	160	50			11/8/2015 10:25	RLD	EPA 8260C
Benzene	<3.0	ug/L	3.0	9.0	50			11/8/2015 10:25	RLD	EPA 8260C
Bromobenzene	<2.0	ug/L	2.0	7.0	50			11/8/2015 10:25	RLD	EPA 8260C
Bromochloromethane	<0.85	ug/L	0.85	2.9	50			11/8/2015 10:25	RLD	EPA 8260C
Bromodichloromethane	<0.85	ug/L	0.85	2.9	50			11/8/2015 10:25	RLD	EPA 8260C
Bromoform	< 0.90	ug/L	0.90	3.0	50			11/8/2015 10:25	RLD	EPA 8260C
Bromomethane	<4.5	ug/L	4.5	15	50			11/8/2015 10:25	RLD	EPA 8260C
Carbon disulfide	<5.5	ug/L	5.5	19	50			11/8/2015 10:25	RLD	EPA 8260C
Carbon tetrachloride	<3.0	ug/L	3.0	10	50			11/8/2015 10:25	RLD	EPA 8260C
Chlorobenzene	3.7	ug/L	2.0 *	7.0	50			11/8/2015 10:25	RLD	EPA 8260C
Chloroethane	<3.0	ug/L	3.0	11	50			11/8/2015 10:25	RLD	EPA 8260C
Chloroform	<3.0	ug/L	3.0	10	50			11/8/2015 10:25	RLD	EPA 8260C
Chloromethane	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:25	RLD	EPA 8260C
sis-1,2-Dichloroethene	710	ug/L	3.0	11	50			11/8/2015 10:25	RLD	EPA 8260C
sis-1,3-Dichloropropene	<0.75	ug/L	0.75	2.5	50			11/8/2015 10:25	RLD	EPA 8260C
Dibromochloromethane	<0.80	ug/L	0.80	2.7	50			11/8/2015 10:25	RLD	EPA 8260C
Dibromomethane	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:25	RLD	EPA 8260C
Dichlorodifluoromethane	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:25	RLD	EPA 8260C

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ınalyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Diisopropyl ether	<2.0	ug/L	2.0	7.5	50			11/8/2015 10:25	RLD	EPA 8260C
thylbenzene	<3.0	ug/L	3.0	11	50			11/8/2015 10:25	RLD	EPA 8260C
lexachlorobutadiene	<3.5	ug/L	3.5	12	50			11/8/2015 10:25	RLD	EPA 8260C
sopropylbenzene	<2.5	ug/L	2.5	8.5	50			11/8/2015 10:25	RLD	EPA 8260C
n & p-Xylene	<6.0	ug/L	6.0	20	50			11/8/2015 10:25	RLD	EPA 8260C
Methyl tert-butyl ether	<2.0	ug/L	2.0	7.5	50			11/8/2015 10:25	RLD	EPA 8260C
Methylene chloride	<3.0	ug/L	3.0	11	50			11/8/2015 10:25	RLD	EPA 8260C
-Butylbenzene	<2.5	ug/L	2.5	8.5	50			11/8/2015 10:25	RLD	EPA 8260C
-Propylbenzene	<2.5	ug/L	2.5	8.0	50			11/8/2015 10:25	RLD	EPA 8260C
laphthalene	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:25	RLD	EPA 8260C
-Xylene	<2.5	ug/L	2.5	8.0	50			11/8/2015 10:25	RLD	EPA 8260C
-Isopropyltoluene	<3.0	ug/L	3.0	11	50			11/8/2015 10:25	RLD	EPA 8260C
ec-Butylbenzene	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:25	RLD	EPA 8260C
Styrene	<2.5	ug/L	2.5	7.5	50			11/8/2015 10:25	RLD	EPA 8260C
ert-Butylbenzene	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:25	RLD	EPA 8260C
etrachloroethene	<3.0	ug/L	3.0	10	50			11/8/2015 10:25	RLD	EPA 8260C
etrahydrofuran	<30	ug/L	30	110	50			11/8/2015 10:25	RLD	EPA 8260C
oluene	<3.0	ug/L	3.0	11	50			11/8/2015 10:25	RLD	EPA 8260C
ans-1,2-Dichloroethene	110	ug/L	3.0	10	50			11/8/2015 10:25	RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.70	ug/L	0.70	2.4	50			11/8/2015 10:25	RLD	EPA 8260C
richloroethene	1300	ug/L	15	50	500			11/7/2015 00:44	RLD	EPA 8260C
richlorofluoromethane	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:25	RLD	EPA 8260C
inyl acetate	<25	ug/L	25	80	50			11/8/2015 10:25	RLD	EPA 8260C
'inyl chloride	6.6	ug/L	0.80	2.6	50			11/8/2015 10:25	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	1.07	mg/L	0.010	0.032	1			11/5/2015 19:27	NAH	EPA 6010C
Dissolved Manganese	204	ug/L	1.6	5.3	1			11/5/2015 19:27	NAH	EPA 6010C
CT LAB Sample#: 653435 Samp	ple Description: MW-1	105S DUP					License/V	Vell #: 4189/043	Sampled	: 11/3/2015 1510
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Alkalinity Total	410	mg/L	5.0	18	1			11/9/2015 14:14	MER	EPA 310.2
Total Chloride	410	mg/L	10	35	10			11/7/2015 06:49	JJF	EPA 9056A
Total Sulfate	56	mg/L	10	34	10			11/7/2015 06:49	JJF	EPA 9056A
Total Organic Carbon	2.4	mg/L	0.40	1.4	1			11/7/2015 00:22	2 JJF	EPA 9060A
Metals Results										
Total Iron	2.27	mg/L	0.020	0.065	1		11/13/2015 11:00	11/16/2015 22:39	NAH	EPA 6010C
Total Manganese	257	ug/L	1.4	4.7	1		11/13/2015 11:00	11/16/2015 22:39	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 14:14	BMS	Mod RSK 175
Ethane	2.5	ug/L	0.90 *	2.9	1		11/11/2015 07:30	11/11/2015 14:14	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 14:14	BMS	Mod RSK 175
Methane	330	ug/L	20	70	50		11/11/2015 07:30	11/11/2015 14:24	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:54	RLD	EPA 8260C
1,1,1-Trichloroethane	<3.0	ug/L	3.0	11	50			11/8/2015 10:54	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	3.3	50			11/8/2015 10:54	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,1,2-Trichloroethane	<2.5	ug/L	2.5	8.5	50			11/8/2015 10:54 RLD	EPA 8260C
1,1-Dichloroethane	45	ug/L	3.0	9.5	50			11/8/2015 10:54 RLD	EPA 8260C
1,1-Dichloroethene	8.7	ug/L	3.5 *	12	50			11/8/2015 10:54 RLD	EPA 8260C
1,1-Dichloropropene	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:54 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.5	ug/L	2.5	8.0	50			11/8/2015 10:54 RLD	EPA 8260C
1,2,3-Trichloropropane	<2.0	ug/L	2.0	6.5	50			11/8/2015 10:54 RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.0	ug/L	2.0	6.5	50			11/8/2015 10:54 RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.5	ug/L	2.5	8.5	50			11/8/2015 10:54 RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.5	ug/L	1.5	5.0	50			11/8/2015 10:54 RLD	EPA 8260C
1,2-Dibromoethane	<2.0	ug/L	2.0	7.0	50			11/8/2015 10:54 RLD	EPA 8260C
1,2-Dichlorobenzene	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:54 RLD	EPA 8260C
1,2-Dichloroethane	<2.0	ug/L	2.0	7.0	50			11/8/2015 10:54 RLD	EPA 8260C
1,2-Dichloropropane	<3.0	ug/L	3.0	10	50			11/8/2015 10:54 RLD	EPA 8260C
1,3,5-Trimethylbenzene	<3.0	ug/L	3.0	10	50			11/8/2015 10:54 RLD	EPA 8260C
1,3-Dichlorobenzene	<3.0	ug/L	3.0	11	50			11/8/2015 10:54 RLD	EPA 8260C
1,3-Dichloropropane	<2.0	ug/L	2.0	6.5	50			11/8/2015 10:54 RLD	EPA 8260C
1,4-Dichlorobenzene	<2.5	ug/L	2.5	8.0	50			11/8/2015 10:54 RLD	EPA 8260C
2,2-Dichloropropane	<2.0	ug/L	2.0	6.0	50			11/8/2015 10:54 RLD	EPA 8260C
2-Butanone	<40	ug/L	40	140	50			11/8/2015 10:54 RLD	EPA 8260C
2-Chlorotoluene	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:54 RLD	EPA 8260C
2-Hexanone	<20	ug/L	20	70	50			11/8/2015 10:54 RLD	EPA 8260C
4-Chlorotoluene	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:54 RLD	EPA 8260C
4-Methyl-2-pentanone	<20	ug/L	20	70	50			11/8/2015 10:54 RLD	EPA 8260C
Acetone	<45	ug/L	45	160	50			11/8/2015 10:54 RLD	EPA 8260C
Benzene	<3.0	ug/L	3.0	9.0	50			11/8/2015 10:54 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Anal Date/Time	yst Method
Bromobenzene	<2.0	ug/L	2.0	7.0	50			11/8/2015 10:54 F	RLD EPA 8260C
Bromochloromethane	<0.85	ug/L	0.85	2.9	50			11/8/2015 10:54 F	RLD EPA 8260C
Bromodichloromethane	<0.85	ug/L	0.85	2.9	50			11/8/2015 10:54 F	RLD EPA 8260C
Bromoform	<0.90	ug/L	0.90	3.0	50			11/8/2015 10:54 F	RLD EPA 8260C
Bromomethane	<4.5	ug/L	4.5	15	50			11/8/2015 10:54 F	RLD EPA 8260C
Carbon disulfide	<5.5	ug/L	5.5	19	50			11/8/2015 10:54 F	RLD EPA 8260C
Carbon tetrachloride	<3.0	ug/L	3.0	10	50			11/8/2015 10:54 F	RLD EPA 8260C
Chlorobenzene	3.0	ug/L	2.0 *	7.0	50			11/8/2015 10:54 F	RLD EPA 8260C
Chloroethane	<3.0	ug/L	3.0	11	50			11/8/2015 10:54 F	RLD EPA 8260C
Chloroform	<3.0	ug/L	3.0	10	50			11/8/2015 10:54 F	RLD EPA 8260C
Chloromethane	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:54 F	RLD EPA 8260C
cis-1,2-Dichloroethene	680	ug/L	3.0	11	50			11/8/2015 10:54 F	RLD EPA 8260C
cis-1,3-Dichloropropene	<0.75	ug/L	0.75	2.5	50			11/8/2015 10:54 F	RLD EPA 8260C
Dibromochloromethane	<0.80	ug/L	0.80	2.7	50			11/8/2015 10:54 F	RLD EPA 8260C
Dibromomethane	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:54 F	RLD EPA 8260C
Dichlorodifluoromethane	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:54 F	RLD EPA 8260C
Diisopropyl ether	<2.0	ug/L	2.0	7.5	50			11/8/2015 10:54 F	RLD EPA 8260C
Ethylbenzene	<3.0	ug/L	3.0	11	50			11/8/2015 10:54 F	RLD EPA 8260C
Hexachlorobutadiene	<3.5	ug/L	3.5	12	50			11/8/2015 10:54 F	RLD EPA 8260C
sopropylbenzene	<2.5	ug/L	2.5	8.5	50			11/8/2015 10:54 F	RLD EPA 8260C
m & p-Xylene	<6.0	ug/L	6.0	20	50			11/8/2015 10:54 F	RLD EPA 8260C
Methyl tert-butyl ether	<2.0	ug/L	2.0	7.5	50			11/8/2015 10:54 F	RLD EPA 8260C
Methylene chloride	<3.0	ug/L	3.0	11	50			11/8/2015 10:54 F	RLD EPA 8260C
n-Butylbenzene	<2.5	ug/L	2.5	8.5	50			11/8/2015 10:54 F	RLD EPA 8260C
n-Propylbenzene	<2.5	ug/L	2.5	8.0	50			11/8/2015 10:54 F	RLD EPA 8260C

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CT LAB Sample#: 653435	Sample Description: MW-105S DUP	License/Well #: 4189/043	Sampled: 11/3/2015 1510
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Naphthalene	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:54	RLD	EPA 8260C
o-Xylene	<2.5	ug/L	2.5	8.0	50			11/8/2015 10:54	RLD	EPA 8260C
p-Isopropyltoluene	<3.0	ug/L	3.0	11	50			11/8/2015 10:54	RLD	EPA 8260C
sec-Butylbenzene	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:54	RLD	EPA 8260C
Styrene	<2.5	ug/L	2.5	7.5	50			11/8/2015 10:54	RLD	EPA 8260C
tert-Butylbenzene	<3.0	ug/L	3.0	9.5	50			11/8/2015 10:54	RLD	EPA 8260C
Tetrachloroethene	<3.0	ug/L	3.0	10	50			11/8/2015 10:54	RLD	EPA 8260C
Tetrahydrofuran	<30	ug/L	30	110	50			11/8/2015 10:54	RLD	EPA 8260C
Toluene	<3.0	ug/L	3.0	11	50			11/8/2015 10:54	RLD	EPA 8260C
trans-1,2-Dichloroethene	110	ug/L	3.0	10	50			11/8/2015 10:54	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.70	ug/L	0.70	2.4	50			11/8/2015 10:54	RLD	EPA 8260C
Trichloroethene	1200	ug/L	15	50	500			11/7/2015 01:13	RLD	EPA 8260C
Trichlorofluoromethane	<2.5	ug/L	2.5	9.0	50			11/8/2015 10:54	RLD	EPA 8260C
Vinyl acetate	<25	ug/L	25	80	50			11/8/2015 10:54	RLD	EPA 8260C
Vinyl chloride	5.6	ug/L	0.80	2.6	50			11/8/2015 10:54	RLD	EPA 8260C

CT LAB Sample#. 000430 Sample Description. MW-1003 DOP License/Well #. 4109/043 Sampled. 11/3/2010 R	CT LAB Sample#: 653436	Sample Description: MW-105S DUP	License/Well #: 4189/043	Sampled: 11/3/2015 1510
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Metals Results								
Dissolved Iron	1.06	mg/L	0.010	0.032	1			11/5/2015 19:33 NAH EPA 6010C
Dissolved Manganese	205	ug/L	1.6	5.3	1			11/5/2015 19:33 NAH EPA 6010C

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Analyte 	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Conductivity (Field)	1120	umhos/cm	N/A	N/A	1			12/4/2015 12:30	PML	
Dissolved Oxygen (Field)	0.29	mg/L	N/A	N/A	1			12/4/2015 12:30	PML	
pH (Field)	7.46	S.U.	N/A	N/A	1			12/4/2015 12:30	PML	
Temperature (Field)	15.53	Deg. C	N/A	N/A	1			12/4/2015 12:30	PML	
Depth to Groundwater (Field)	3.60	Feet	N/A	N/A	1			12/4/2015 12:30	PML	
Groundwater Elevation (Field)	845.30	Feet MSL	N/A	N/A	1			12/4/2015 12:30	PML	
Turbidity (Field)	5.9		N/A	N/A	1			12/4/2015 12:30	PML	
OX/REDOX (Field)	-67	MV	N/A	N/A	1			12/4/2015 12:30	PML	
norganic Results										
Alkalinity Total	390	mg/L	5.0	18	1			11/9/2015 14:20	MER	EPA 310.2
Total Chloride	190	mg/L	10	35	10			11/7/2015 07:09	JJF	EPA 9056A
Total Sulfate	58	mg/L	10	34	10			11/7/2015 07:09	JJF	EPA 9056A
Total Organic Carbon	1.3	mg/L	0.40 *	1.4	1			11/7/2015 00:33	JJF	EPA 9060A
Metals Results										
Total Iron	1.52	mg/L	0.020	0.065	1		11/13/2015 11:00	11/16/2015 22:45	NAH	EPA 6010C
Total Manganese	65.6	ug/L	1.4	4.7	1		11/13/2015 11:00	11/16/2015 22:45	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 14:32	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 14:32	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 14:32	BMS	Mod RSK 175
Methane	150	ug/L	4.0	14	10		11/11/2015 07:30	11/11/2015 14:41	BMS	Mod RSK 175
,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50	1.8	10			11/7/2015 01:42	RLD	EPA 8260C
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CT LAB Sample#: 653437 Sample Description: MW-105D License/Well #: 4189/044 Sampled: 11/3/2015 1550

nalyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
,1,1-Trichloroethane	<0.60	ug/L	0.60	2.1	10			11/7/2015 01:42 RLD	EPA 8260C
,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.65	10			11/7/2015 01:42 RLD	EPA 8260C
,1,2-Trichloroethane	<0.50	ug/L	0.50	1.7	10			11/7/2015 01:42 RLD	EPA 8260C
,1-Dichloroethane	77	ug/L	0.60	1.9	10			11/7/2015 01:42 RLD	EPA 8260C
,1-Dichloroethene	6.9	ug/L	0.70	2.3	10			11/7/2015 01:42 RLD	EPA 8260C
,1-Dichloropropene	<0.60	ug/L	0.60	1.9	10			11/7/2015 01:42 RLD	EPA 8260C
,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	10			11/7/2015 01:42 RLD	EPA 8260C
,2,3-Trichloropropane	<0.40	ug/L	0.40	1.3	10			11/7/2015 01:42 RLD	EPA 8260C
,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	10			11/7/2015 01:42 RLD	EPA 8260C
,2,4-Trimethylbenzene	<0.50	ug/L	0.50	1.7	10			11/7/2015 01:42 RLD	EPA 8260C
,2-Dibromo-3-chloropropane	<0.30	ug/L	0.30	1.0	10			11/7/2015 01:42 RLD	EPA 8260C
,2-Dibromoethane	<0.40	ug/L	0.40	1.4	10			11/7/2015 01:42 RLD	EPA 8260C
,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	10			11/7/2015 01:42 RLD	EPA 8260C
,2-Dichloroethane	0.93	ug/L	0.40 *	1.4	10			11/7/2015 01:42 RLD	EPA 8260C
,2-Dichloropropane	<0.60	ug/L	0.60	2.0	10			11/7/2015 01:42 RLD	EPA 8260C
,3,5-Trimethylbenzene	<0.60	ug/L	0.60	2.0	10			11/7/2015 01:42 RLD	EPA 8260C
,3-Dichlorobenzene	<0.60	ug/L	0.60	2.1	10			11/7/2015 01:42 RLD	EPA 8260C
,3-Dichloropropane	<0.40	ug/L	0.40	1.3	10			11/7/2015 01:42 RLD	EPA 8260C
,4-Dichlorobenzene	<0.50	ug/L	0.50	1.6	10			11/7/2015 01:42 RLD	EPA 8260C
,2-Dichloropropane	<0.40	ug/L	0.40	1.2	10			11/7/2015 01:42 RLD	EPA 8260C
-Butanone	<8.0	ug/L	8.0	28	10			11/7/2015 01:42 RLD	EPA 8260C
-Chlorotoluene	<0.60	ug/L	0.60	1.9	10			11/7/2015 01:42 RLD	EPA 8260C
-Hexanone	<4.0	ug/L	4.0	14	10			11/7/2015 01:42 RLD	EPA 8260C
-Chlorotoluene	<0.50	ug/L	0.50	1.8	10			11/7/2015 01:42 RLD	EPA 8260C
-Methyl-2-pentanone	<4.0	ug/L	4.0	14	10			11/7/2015 01:42 RLD	EPA 8260C

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CT LAB Sample#: 653437 Sample Description: MW-105D License/Well #: 4189/044 Sampled: 11/3/2015 1550

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analysi Date/Time	Method
Acetone	<9.0	ug/L	9.0	31	10			11/7/2015 01:42 RLD	EPA 8260C
Benzene	<0.60	ug/L	0.60	1.8	10			11/7/2015 01:42 RLD	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.4	10			11/7/2015 01:42 RLD	EPA 8260C
Bromochloromethane	<0.17	ug/L	0.17	0.58	10			11/7/2015 01:42 RLD	EPA 8260C
Bromodichloromethane	<0.17	ug/L	0.17	0.58	10			11/7/2015 01:42 RLD	EPA 8260C
Bromoform	<0.18	ug/L	0.18	0.60	10			11/7/2015 01:42 RLD	EPA 8260C
Bromomethane	<0.90	ug/L	0.90	2.9	10			11/7/2015 01:42 RLD	EPA 8260C
Carbon disulfide	<1.1	ug/L	1.1	3.8	10			11/7/2015 01:42 RLD	EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.60	2.0	10			11/7/2015 01:42 RLD	EPA 8260C
Chlorobenzene	<0.40	ug/L	0.40	1.4	10			11/7/2015 01:42 RLD	EPA 8260C
Chloroethane	1.3	ug/L	0.60 *	2.1	10			11/7/2015 01:42 RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.60	2.0	10			11/7/2015 01:42 RLD	EPA 8260C
Chloromethane	<0.50	ug/L	0.50	1.8	10			11/7/2015 01:42 RLD	EPA 8260C
cis-1,2-Dichloroethene	510	ug/L	6.0	21	100			11/8/2015 11:24 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.15	ug/L	0.15	0.49	10			11/7/2015 01:42 RLD	EPA 8260C
Dibromochloromethane	<0.16	ug/L	0.16	0.54	10			11/7/2015 01:42 RLD	EPA 8260C
Dibromomethane	<0.60	ug/L	0.60	1.9	10			11/7/2015 01:42 RLD	EPA 8260C
Dichlorodifluoromethane	<0.60	ug/L	0.60	1.9	10			11/7/2015 01:42 RLD	EPA 8260C
Diisopropyl ether	<0.40	ug/L	0.40	1.5	10			11/7/2015 01:42 RLD	EPA 8260C
Ethylbenzene	<0.60	ug/L	0.60	2.1	10			11/7/2015 01:42 RLD	EPA 8260C
Hexachlorobutadiene	<0.70	ug/L	0.70	2.4	10			11/7/2015 01:42 RLD	EPA 8260C
Isopropylbenzene	<0.50	ug/L	0.50	1.7	10			11/7/2015 01:42 RLD	EPA 8260C
m & p-Xylene	<1.2	ug/L	1.2	4.0	10			11/7/2015 01:42 RLD	EPA 8260C
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.5	10			11/7/2015 01:42 RLE	EPA 8260C
Methylene chloride	<0.60	ug/L	0.60	2.1	10			11/7/2015 01:42 RLD	EPA 8260C

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CT LAB Sample#: 653437 Sample Description: MW-105D	License/Well #: 4189/044	Sampled: 11/3/2015 1550
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
n-Butylbenzene	<0.50	ug/L	0.50	1.7	10			11/7/2015 01:42 RLD	EPA 8260C
n-Propylbenzene	<0.50	ug/L	0.50	1.6	10			11/7/2015 01:42 RLD	EPA 8260C
Naphthalene	<0.50	ug/L	0.50	1.8	10			11/7/2015 01:42 RLD	EPA 8260C
o-Xylene	<0.50	ug/L	0.50	1.6	10			11/7/2015 01:42 RLD	EPA 8260C
o-Isopropyltoluene	<0.60	ug/L	0.60	2.1	10			11/7/2015 01:42 RLD	EPA 8260C
sec-Butylbenzene	<0.50	ug/L	0.50	1.8	10			11/7/2015 01:42 RLD	EPA 8260C
Styrene	<0.50	ug/L	0.50	1.5	10			11/7/2015 01:42 RLD	EPA 8260C
ert-Butylbenzene	<0.60	ug/L	0.60	1.9	10			11/7/2015 01:42 RLD	EPA 8260C
Tetrachloroethene	<0.60	ug/L	0.60	2.0	10			11/7/2015 01:42 RLD	EPA 8260C
Tetrahydrofuran	<6.0	ug/L	6.0	21	10			11/7/2015 01:42 RLD	EPA 8260C
Toluene	< 0.60	ug/L	0.60	2.1	10			11/7/2015 01:42 RLD	EPA 8260C
rans-1,2-Dichloroethene	36	ug/L	0.60	2.0	10			11/7/2015 01:42 RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.14	ug/L	0.14	0.48	10			11/7/2015 01:42 RLD	EPA 8260C
Trichloroethene	3.5	ug/L	0.30	1.0	10			11/7/2015 01:42 RLD	EPA 8260C
Trichlorofluoromethane	<0.50	ug/L	0.50	1.8	10			11/7/2015 01:42 RLD	EPA 8260C
/inyl acetate	<5.0	ug/L	5.0	16	10			11/7/2015 01:42 RLD	EPA 8260C
/inyl chloride	8.3	ug/L	0.16	0.52	10			11/7/2015 01:42 RLD	EPA 8260C

CT LAB Sample#: 653438 Sample Description: MW-105D License/Well #: 4189/044 Sampled: 11/3/2015 1550

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Metals Results								
Dissolved Iron	1.36	mg/L	0.010	0.032	1			11/5/2015 19:38 NAH EPA 6010C
Dissolved Manganese	51.0	ug/L	1.6	5.3	1			11/5/2015 19:38 NAH EPA 6010C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Conductivity (Field)	791	umhos/cm	N/A	N/A	1			12/4/2015 12:3	0 PML	
Dissolved Oxygen (Field)	0.40	mg/L	N/A	N/A	1			12/4/2015 12:3	0 PML	
pH (Field)	7.71	S.U.	N/A	N/A	1			12/4/2015 12:3	0 PML	
Temperature (Field)	13.02	Deg. C	N/A	N/A	1			12/4/2015 12:3	0 PML	
Depth to Groundwater (Field)	3.84	Feet	N/A	N/A	1			12/4/2015 12:3	0 PML	
Groundwater Elevation (Field)	845.06	Feet MSL	N/A	N/A	1			12/4/2015 12:3	0 PML	
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12:3	0 PML	
OX/REDOX (Field)	-120	MV	N/A	N/A	1			12/4/2015 12:3	0 PML	
norganic Results										
Alkalinity Total	380	mg/L	5.0	18	1			11/9/2015 14:2	6 MER	EPA 310.2
Total Chloride	90	mg/L	1.0	3.5	1			11/7/2015 07:3	0 JJF	EPA 9056A
Total Sulfate	<1.0	mg/L	1.0	3.4	1			11/7/2015 07:3	0 JJF	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.4	1			11/7/2015 00:4	4 JJF	EPA 9060A
Metals Results										
Total Iron	2.80	mg/L	0.020	0.065	1		11/13/2015 11:00	11/16/2015 22:5	1 NAH	EPA 6010C
Total Manganese	394	ug/L	1.4	4.7	1		11/13/2015 11:00	11/16/2015 22:5	1 NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 14:5	0 BMS	Mod RSK 175
Ethane	1.2	ug/L	0.90 *	2.9	1		11/11/2015 07:30	11/11/2015 14:5	0 BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 14:5	0 BMS	Mod RSK 175
Methane	2600	ug/L	80	280	200		11/11/2015 07:30	11/11/2015 15:1	3 BMS	Mod RSK 175
,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 23:4	6 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:46 R	LD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/6/2015 23:46 R	LD EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			11/6/2015 23:46 R	LD EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			11/6/2015 23:46 R	LD EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			11/6/2015 23:46 R	LD EPA 8260C
1,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			11/6/2015 23:46 R	LD EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 23:46 R	LD EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 23:46 R	LD EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/6/2015 23:46 R	LD EPA 8260C
,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/6/2015 23:46 R	LD EPA 8260C
,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/6/2015 23:46 R	LD EPA 8260C
,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 23:46 R	LD EPA 8260C
,2-Dichlorobenzene	< 0.060	ug/L	0.060	0.19	1			11/6/2015 23:46 R	LD EPA 8260C
,2-Dichloroethane	< 0.040	ug/L	0.040	0.14	1			11/6/2015 23:46 R	LD EPA 8260C
1,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			11/6/2015 23:46 R	LD EPA 8260C
1,3,5-Trimethylbenzene	< 0.060	ug/L	0.060	0.20	1			11/6/2015 23:46 R	LD EPA 8260C
1,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			11/6/2015 23:46 R	LD EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 23:46 R	LD EPA 8260C
,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 23:46 R	LD EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/6/2015 23:46 R	LD EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/6/2015 23:46 R	LD EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/6/2015 23:46 R	LD EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 23:46 R	LD EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/6/2015 23:46 R	LD EPA 8260C
1-Methyl-2-pentanone	< 0.40	ug/L	0.40	1.4	1			11/6/2015 23:46 R	LD EPA 8260C

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CT LAB Sample#: 653439 Sample Description: MW-105B License/Well #: 4189/045 Sampled: 11/3/2015 1625

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	lyst	Method
Acetone	<0.90	ug/L	0.90	3.1	1			11/6/2015 23:46	RLD E	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/6/2015 23:46	RLD E	PA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 23:46	RLD E	PA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 23:46	RLD E	PA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 23:46	RLD E	PA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/6/2015 23:46	RLD E	PA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/6/2015 23:46	RLD E	PA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/6/2015 23:46	RLD E	PA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/6/2015 23:46	RLD E	PA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 23:46	RLD E	PA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:46	RLD E	PA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/6/2015 23:46	RLD E	PA 8260C
Chloromethane	< 0.050	ug/L	0.050	0.18	1			11/6/2015 23:46	RLD E	PA 8260C
cis-1,2-Dichloroethene	0.075	ug/L	0.060 *	0.21	1			11/6/2015 23:46	RLD E	PA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/6/2015 23:46	RLD E	PA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/6/2015 23:46	RLD E	PA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 23:46	RLD E	PA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 23:46	RLD E	PA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 23:46	RLD E	PA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:46	RLD E	PA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/6/2015 23:46	RLD E	PA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 23:46	RLD E	PA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/6/2015 23:46	RLD E	PA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 23:46	RLD E	PA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:46	RLD E	PA 8260C

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	CT LAB Sample#: 653439	Sample Description: MW-105B		
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 23:46 R	LD EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 23:46 R	LD EPA 8260C
laphthalene	<0.050	ug/L	0.050	0.18	1			11/6/2015 23:46 R	LD EPA 8260C
-Xylene	<0.050	ug/L	0.050	0.16	1			11/6/2015 23:46 R	LD EPA 8260C
Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:46 R	LD EPA 8260C
ec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/6/2015 23:46 R	LD EPA 8260C
tyrene	<0.050	ug/L	0.050	0.15	1			11/6/2015 23:46 R	LD EPA 8260C
rt-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 23:46 R	LD EPA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 23:46 R	LD EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/6/2015 23:46 R	LD EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 23:46 R	LD EPA 8260C
ans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 23:46 R	LD EPA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/6/2015 23:46 R	LD EPA 8260C
richloroethene	<0.030	ug/L	0.030	0.10	1			11/6/2015 23:46 R	LD EPA 8260C
richlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 23:46 R	LD EPA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1			11/6/2015 23:46 R	LD EPA 8260C
nyl chloride	0.028	ug/L	0.016 *	0.052	1			11/6/2015 23:46 R	LD EPA 8260C

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Metals Results								
Dissolved Iron	2.67	mg/L	0.010	0.032	1	М		11/5/2015 19:44 NAH EPA 6010C
Dissolved Manganese	313	ug/L	1.6	5.3	1			11/5/2015 19:44 NAH EPA 6010C

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CT LAB Sample#: 653465 Sample Description: TRIP BLANK 1 License/Well #: 4189/999 Sampled: 11/3/2015

Analyte —	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	yst Method
Organic Results									
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 17:11	RLD EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 17:11	RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/6/2015 17:11	RLD EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/6/2015 17:11	RLD EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 17:11	RLD EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/6/2015 17:11	RLD EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/6/2015 17:11	RLD EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 17:11	RLD EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 17:11	RLD EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/6/2015 17:11	RLD EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 17:11	RLD EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/6/2015 17:11	RLD EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 17:11	RLD EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 17:11	RLD EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 17:11	RLD EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/6/2015 17:11	RLD EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/6/2015 17:11	RLD EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 17:11	RLD EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 17:11	RLD EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 17:11	RLD EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/6/2015 17:11	RLD EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/6/2015 17:11	RLD EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/6/2015 17:11	RLD EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 17:11	RLD EPA 8260C

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CT LAB Sample#: 653465 Sample Description: TRIP BLANK 1	License/Well #: 4189/999	Sampled: 11/3/2015
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/6/2015 17:11 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 17:11 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/6/2015 17:11 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/6/2015 17:11 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 17:11 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 17:11 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 17:11 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/6/2015 17:11 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/6/2015 17:11 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/6/2015 17:11 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/6/2015 17:11 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 17:11 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 17:11 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/6/2015 17:11 RLD	EPA 8260C
Chloromethane	< 0.050	ug/L	0.050	0.18	1			11/6/2015 17:11 RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/6/2015 17:11 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/6/2015 17:11 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/6/2015 17:11 RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 17:11 RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 17:11 RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 17:11 RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 17:11 RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/6/2015 17:11 RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 17:11 RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/6/2015 17:11 RLD	EPA 8260C

delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115169

Page 41 of 42

CT LAB Sample#: 653465 Sample Description: TRIP BLANK 1 License/Well #: 4189/999 Sampled: 11/3/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analysis Analysis Analysis Analysis	nalyst	Method
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 17:11	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/6/2015 17:11	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 17:11	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 17:11	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/6/2015 17:11	RLD	EPA 8260C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 17:11	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 17:11	RLD	EPA 8260C
sec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			11/6/2015 17:11	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/6/2015 17:11	RLD	EPA 8260C
tert-Butylbenzene	< 0.060	ug/L	0.060	0.19	1			11/6/2015 17:11	RLD	EPA 8260C
Tetrachloroethene	< 0.060	ug/L	0.060	0.20	1			11/6/2015 17:11	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/6/2015 17:11	RLD	EPA 8260C
Toluene	< 0.060	ug/L	0.060	0.21	1			11/6/2015 17:11	RLD	EPA 8260C
trans-1,2-Dichloroethene	< 0.060	ug/L	0.060	0.20	1			11/6/2015 17:11	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/6/2015 17:11	RLD	EPA 8260C
Trichloroethene	< 0.030	ug/L	0.030	0.10	1			11/6/2015 17:11	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 17:11	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/6/2015 17:11	RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/6/2015 17:11	RLD	EPA 8260C

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115169 Page 42 of 42

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by:

Pat M. Letterer Project Manager 608-356-2760

QC Qualifiers

В	Analyte detected in the associated Method Blank.	Kansas NE
С	Toxicity present in BOD sample.	Kentucky I
D	Diluted Out.	ISO/IEC 17
E	Safe, No Total Coliform detected.	North Card
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	Wisconsin
Н	Holding time exceeded.	Wisconsin
I	BOD incubator temperature was outside acceptance limits during test period.	DoD-ELAF
J	Estimated value.	GA EPD S
L	Significant peaks were detected outside the chromatographic window.	Louisiana I
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	Virginia ID
N	Insufficient BOD oxygen depletion.	Illinois NEL
0	Complete BOD oxygen depletion.	1
Р	Concentration of analyte differs more than 40% between primary and confirmation analysis.	Wisconsin
Q	Laboratory Control Sample outside acceptance limits.	Maryland I
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Υ	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications

NELAP ID# E-10368 ID# 0023

17025-2005 A2LA Cert # 3806.01

rolina ID# 674

in (WDNR) Chemistry ID# 157066030 in (DATCP) Bacteriology ID# 105-289

AP A2LA 3806.01

Stipulation ID E871111, Expires Annually

a ID # 115843

D# 7608

ELAP ID # 002413

in (WOSB) ID# WI-5499-WBE

ID# 344

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CT Laboratories Terms and Conditions

Where a purchaser (Client) pknoes an order for laboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Question, or as agreed in a negotiated contract. In the obscurse of a written agreement to the contrary, the Order constitutes an acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contract created upon acceptance of these Terms and Conditions, unless accepted by CTL in advance of the project and in writing.

1.1 The Cient may place the Order (i.e., specify a Scope of Work) either yearhaing a purchase order to CTL hweire, by teleptone (confirmed in writing) or by negotiated contract. Whichever option the Cient selects for placing the Order, the Order shall not be valid unless it contains sufficient specification to enable CTL to carry out the Cient's requirements. It is the policy of CT Laboratories that samples not meeting the acceptance criteria, outlined in the NELAC standards and Section 5.8.3.2 of the DDD QSM, will not be acceptancy or will be qualified on the final report. All samples submitted to the laboratory must. (1) be accompanied by proper, full and complete documentation, including sample identification, including sample identification, which will be conflocted in the order crashed by the higheratory or will be qualified on the chain of the properties of the policy of cample, any piece queried information, it is an experiment of the properties
2.1 Services performed by CTL, will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedute. Involves may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose content has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of involce by CTL. All overdue payments are subject to an additional interest and service change of one and one-half percent (1.5%) (or the maximum rate permissible by whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are changed or billed directly to the Client. The billing of a third parity will not be accepted without a statement, signed by the third parity that acknowledges and accepts payment responsibility. When the parity will not be accepted without a statement, signed by the third parity that acknowledges and accepts payment responsibility. When the parity will not be accepted without a statement, signed by the third parity that acknowledges and accepts payment as a support of the acceptance of collection including responsible attempts fees. CTL reserves the right to refuse to proceed work at any time based upon an uniforwarble Client credit report. e whose credit desible by law, consibility. CTL o proceed with

3. CHANGE ORDERS, TERMINATION

3.1 Changes to the Scope of Work, price, or result dolivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions, CTL will not be Client is reached on the amount of any cost, schedule change or borfused change in the Scope of Work and such agreement is documented in waiting.

3.2 Changes to the Scope of Work, Including but not initiated by increasing or decreasing the work of energing less and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance, result in a change in cost and turnaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.

3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete at work to progress and be paid in fall for all work completed. , QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with

will be documented in writing and may

4.1 Where applicable), CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it. CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals the responsibility of the industry and or CTL will not be responsible for any resampling or other changes if work must be repeated to comply with a subsequently finalized QAPP). In the overall hat samples arrive prior to agreement on a QAPP, CTL will proceed with analyses under its standard Quality Manuals then in effect, and CTL will not responsible for any resampling or other changes if work must be repeated to comply with a subsequently finalized QAPP.

4.2 CTL will use its best efforts to meet holding times and will proceed with the work provided that. In CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met holding time.

4.3 CTL warmants that it possesses and maintains all licenses and certifications which are required to perform services under those Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Otient in writing of any dependence of the provided in writing to CTL prior to Sample Acceptance. CTL will notify the Otient in writing of any dependence of the provided in writing to CTL prior to Sample Acceptance. CTL will notify the Otient in writing of any dependence of the provided of the such requirements are specified in writing

4.4 The varianty obligations set forth in Sections 4.1, 4.2 and 4.3 and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty in any way.

4.5 Ctent's sole and exclusive merely for no breach of warranty in connection with any services performed by CTL with any way.

4.6 CTL sealing for any and of cuses of action disting herounder, whether second in contract, but warranty, negoting noses, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services of the nervice performed or the nervice performed to the nervice ence, shall be deemed waived unless incidental or consequential damages . Any reanalysts requested by

ocasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, not be imitted to, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, chill disturbances, equipment breakdown, metric interference or unknown highly contaminated samples that impact instrument operation, mail or delivery services, or any other cause boyond CTL's reasonable control.

5. RESULT9, WORK PRODUCT
5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, OA/OC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL and Client's shall not decices such information to any third party.
5.2 Data and sample materials provided by Client or al Client's request, and the result obtained by CTL shall be held in confidence (unless such information is generally available to the public of his the public domain or Client has failed to pay CTL for all services rendered or is otherwise in precious in these results obtained by CTL but used by the Client or Client's permitted by the Client or Client's client's client's determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold CTL's right to independently defend its data.

5.4 CTL resonves the right to independently defend to the client to clie

all applicable warrantes, guarantees and insurance are those of the subcontracted laboratory.

5.5 CTL shall dispose of the Client samples 30 days after the analytical report is based, unless instructed to store them for an afternate period of time or to return such samples to the Client, in a manner consistent with U.S. state or local equivernents. Any samples for projects that are cancelled or not accepted, or for which return was requested, will be returned to the Client either own expense. CTL reserves the right to return to the Client eny sample or or the capabilities of CTL to designated waste disposal vendor(s). . Environmental Protection Agency regulations or other applicable Foderal, runused portion of a sample that is not within CTL's permitted capability

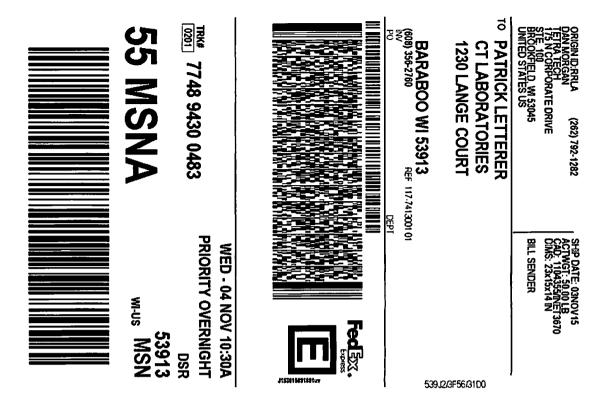
to retain all records for five (5) years. to reimburse CTL for hourly charges

5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records 5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL appearances related to the legal process, timel and all resconable expenses associated with the fligation. for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and

Page | 166

6. INSURPANCE
6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liabay insurance in accordance with the states having jurisdiction over CTL's employees who are origaged in the performance of the work. CTL shall also maintain during such period, Comprehensive General and Contractual Liability (limit of \$2,000,000 per occurrence) aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7. AUDIT
7.1 Upon prior notice to CT not be required to provide to CTL, the Client may audit and inspect CTL's records and accounts covering retimbursable costs related to work ovide access to cost records where prices are expressed as fixed fees or published unit prices done for the Ctart, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for vertication of such costs, and CTL shall



After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Ice Present Yes No
Temperature 2. | # / |
Initials | Date (1/9/15 Time /0:5)
Cooler # 5723



QC SUMMARY REPORT

TETRA TECH Project Name: OCONOMOWOC

ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Dupl	licate

Analytical Run #:	120630	Analysis Date:	11/12/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	657932	Analysis Time:	14:50	Prep Date/Time:	Method:	SW9056A
Parent Sample #:	653420	Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Chloride	5.43	mg/L	5.8					7	20
Total Sulfate	1.00	mg/L	0	U				0	20

ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #:	120630	Analysis Date:	11/10/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	656666	Analysis Time:	10:21	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

·				-						
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Chloride	15.28	mg/L			15.00	102	80 120			
Sulfate	24.55	mg/L			25.00	98	80 120			

ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Lab Control S	Spike Water
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Analytical Run #:	120630	Analysis Date:	11/7/2015	Prep Batch #:	Matrix:	LIQUID	
CTLab #:	656672	Analysis Time:	01:15	Prep Date/Time:	Method:	SW9056A	
Parent Sample #:		Analyst:	JJF	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Con Lim		RPD	RPD Limit
Chloride	15.20	mg/L			15.00	101	80 -	- 120		
Sulfate	24.31	mg/L			25.00	97	80 -	- 120		

ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Method Blank Water		Water	nk	la	В	od	hc	llet l	٨
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Analytical Run #:	120630	Analysis Date:	11/10/2015	Prep Batch #:	Matrix:	LIQUID	
CTLab #:	656319	Analysis Time:	10:42	Prep Date/Time:	Method:	SW9056A	
Parent Sample #:		Analyst:	JJF	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	1.0	mg/L		U	0		1.0		
Sulfate	1.0	mg/L		U	0		1.0		

Date Printed: 12/4/2015

ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Meth	nnd	Rla	nk	Wa	ter
IVICLI	w	ыa	IIN	vva	LCI

Analytical Run #:	120630	Analysis Date:	11/7/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	656669	Analysis Time:	01:36	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	1.0	mg/L		U	0		1.0		
Sulfate	1.0	mg/L		U	0		1.0		

Date Printed: 12/4/2015

Folder #: 115169

ELECTROPLATING

Project Number: 117-7413001.01

Matrix Spike	Water
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Analytical Run #:	120630	Analysis Date:	11/12/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	657934	Analysis Time:	15:11	Prep Date/Time:	Method:	SW9056A
Parent Sample #:	653420	Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Chloride	13.5	mg/L	5.8		8.00	96	80 120		20
Total Sulfate	8.38	mg/L	BDL		8.00	105	80 120		20

SDG #: 0

ELECTROPLATING

				Lab Contro	ol Spike Wate	r					
Analytical Run #: 120671 CTLab #: 655860 Parent Sample #:		•		11/6/2015 16:23 JJF	16:23 Prep Date/Time:			Matrix: Method:		LIQUID SW9060	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Contro Limits	-	RPD	RPD Limit
otal Organic Carbon		53.25	mg/L			50.00	106	85	111		

0.4

mg/L

	Method Blank Water													
Analytical Run #: CTLab #: Parent Sample #:	120671 655861	,	sis Date: sis Time: st:	11/6/2015 16:38 JJF	Prep Batch #: Prep Date/Tin Prep Analyst:	ne:		Matrix: Method:	LIQUII SW900					
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit				

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Total Organic Carbon

TETRA TECH

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

SDG #: 0 Folder #: 115169

Dii	plicat	6

Analytical Run #:	120730	Analysis Date:	11/9/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	655525	Analysis Time:	14:09	Prep Date/Time:	Method:	E310.2
Parent Sample #:	653420	Analyst:	DC	Prep Analyst:		

· ·	•									
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Alkalinity Dissolved	364	mg/L	370					2	10	
Alkalinity Total	364	mg/L	370					2	7	

ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

	Lab Control Spike Water												
Analytical Run #: CTLab #:	120730 655257	•	is Date:	11/9/2015 14:02	Prep Batch #:			Matrix: Method:		LIQUIE E310.2			
Parent Sample #:		Analys		MER	Prep Analyst:								
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Contro Limits	-	RPD	RPD Limit		
kalinity		370.0	mg/L			375.0	99	90	110				

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7

mg/L

Method Blank Water													
Analytical Run #: CTLab #: Parent Sample #:	120730 655258	,	sis Date: sis Time: st:	11/9/2015 14:03 MER	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix: Method:	LIQUIE E310.2				
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit			

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0

7

Alkalinity

ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Analytical Run #:	120599	Analysis Date:	11/5/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	656121	Analysis Time:	20:11	Prep Date/Time:	Method:	SW6010
Parent Sample #:	656120	Analyst:	DC	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imit		RPD	RPD Limit
Iron	5.16	mg/L	2.67		2.00	124	72		113	4	18
Manganese	1100	ug/L	313		1000	79	67		121	6	13

Date Printed: 12/4/2015

TETRA TECH

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

SDG #: 0 Folder #: 115169

Matrix Spike Water

ſ	Analytical Run #: CTLab #:	120599 656120	Analysis Date: Analysis Time:	11/5/2015 20:05	Prep Batch #: Prep Date/Time:	Matrix: Method:	GROUND WATER SW6010
	Parent Sample #:	653440	Analyst:	DC	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imit		RPD	RPD Limit
Iron	4.94	mg/L	2.67		2.00	114	72		113		18
Manganese	1040	ug/L	313		1000	73	67		121		13

ELECTROPLATING

Lab Control Spike Water	Lab	b Contro	l Spike	Water	
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Analytical Run #:	120955	Analysis Date:	11/16/2015	Prep Batch #:	55082	Matrix:	LIQUID
CTLab #:	657986	Analysis Time:	21:27	Prep Date/Time:	11/13/201511:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample	Units	Parent (Qualifier(s)	Spike Amount	% Recovery	Control Limits	RPD	RPD Limit
	result		result		Added	Recovery	Lillits		LIIIII
Iron	0.3980	mg/L			0.4000	100	80 115		
Manganese	192.0	ug/L			200.0	96	86 112		

ELECTROPLATING

Analytical Run #:	120955	Analysis Date:	11/16/2015	Prep Batch #:	55082	Matrix:	LIQUID
CTLab #:	657985	Analysis Time:	21:33	Prep Date/Time:	11/13/201511:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.02	mg/L		U	0		0.02		
Manganese	1.4	ug/L		U	0		1.4		

ELECTROPLATING

Matrix	Cailea	Dunlingto	14/040#
watrix	SDIKE	Duplicate	vvater

Analytical Run #:	120955	Analysis Date:	11/16/2015	Prep Batch #:	55082	Matrix:	GROUND WATER
CTLab #:	657988	Analysis Time:	22:11	Prep Date/Time:	11/13/201511:00	Method:	SW6010
Parent Sample #:	657987	Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.344	mg/L	BDL		0.400	86	72 118	7	11
Manganese	267	ug/L	76.7		200	95	84 111	8	7

			Matrix S	pike Water			
Analytical Run #: CTLab #:	120955 657987	Analysis Date: Analysis Time:	11/16/2015 22:05	Prep Batch #: Prep Date/Time	55082 : 11/13/2015/1:00	Matrix: Method:	GROUND WATER SW6010
Parent Sample #:	653427	Analyst:	NAH	Prep Analyst:	LJF		
nalyte		QC Units sample	Parent sample	Qualifier(s)	Spike % Amount Recovery	Control Limits	RPD RPD Limit

	****	- , -			-17					
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron		0.320	mg/L	BDL		0.400	80	72 11	8	
Manganese		246	ug/L	76.7		200	85	84 11	1	

ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #:	120653	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	655040	Analysis Time:	15:44	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits			RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.26	ug/L			4.00	106	74		127		
1,1,1-Trichloroethane	4.28	ug/L			4.00	107	73		132		
1,1,2,2-Tetrachloroethane	4.14	ug/L			4.00	104	67		129		
1,1,2-Trichloroethane	4.14	ug/L			4.00	104	73		129		
1,1-Dichloroethane	4.14	ug/L			4.00	104	73		129		
1,1-Dichloroethene	4.36	ug/L			4.00	109	73		132		
1,1-Dichloropropene	4.22	ug/L			4.00	106	75		125		
1,2 Dichloroethane-d4	97.0	% Recovery			100	97.0	68		120		
1,2,3-Trichlorobenzene	4.39	ug/L			4.00	110	72		125		
1,2,3-Trichloropropane	3.98	ug/L			4.00	100	68		136		
1,2,4-Trichlorobenzene	4.29	ug/L			4.00	107	67		124		
1,2,4-Trimethylbenzene	4.37	ug/L			4.00	109	77		123		
1,2-Dibromo-3-chloropropane	4.22	ug/L			4.00	106	56		138		
1,2-Dibromoethane	4.20	ug/L			4.00	105	76		127		
1,2-Dichlorobenzene	4.27	ug/L			4.00	107	82		120		
1,2-Dichloroethane	4.10	ug/L			4.00	102	72		134		
1,2-Dichloropropane	4.08	ug/L			4.00	102	76		124		
1,3,5-Trimethylbenzene	4.42	ug/L			4.00	110	77		124		
1,3-Dichlorobenzene	4.34	ug/L			4.00	108	81		120		
1,3-Dichloropropane	4.07	ug/L			4.00	102	76		125		
1,4-Dichlorobenzene	4.16	ug/L			4.00	104	80		120		
2,2-Dichloropropane	4.16	ug/L			4.00	104	54		144		
2-Butanone	38.7	ug/L			40.0	97	57		144		
2-Chlorotoluene	4.25	ug/L			4.00	106	77		123		
2-Hexanone	39.4	ug/L			40.0	98	61		132		
4-Chlorotoluene	4.33	ug/L			4.00	108	76		124		
4-Methyl-2-pentanone	41.0	ug/L			40.0	102	64		135		
Acetone	32.5	ug/L			40.0	81	51		152		
Benzene	4.26	ug/L			4.00	106	80		122		
Bromobenzene	4.30	ug/L			4.00	108	81		120		
Bromochloromethane	4.05	ug/L			4.00	101	78		126		
Bromodichloromethane	4.25	ug/L			4.00	106	67		132		
Bromofluorobenzene	100	% Recovery			100	100	68		120		
Bromoform	4.09	ug/L			4.00	102	55		132		
Bromomethane	4.19	ug/L			4.00	105	65		141		
Carbon disulfide	8.52	ug/L			8.00	106	61		140		
Carbon tetrachloride	4.36	ug/L			4.00	109	72		133		
Chlorobenzene	4.20	ug/L			4.00	105	80		122		
Chloroethane	4.09	ug/L			4.00	102	71		134		
Chloroform	4.18	ug/L			4.00	104	73		127		
Chloromethane	3.93	ug/L			4.00	98	72		128		
cis-1,2-Dichloroethene	4.27	ug/L			4.00	107	76		127		

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ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #:	120653	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	655040	Analysis Time:	15:44	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC Units sample result				Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	4.23	ug/L			4.00	106	72 125		
d8-Toluene	100	% Recovery			100	100	71 117		
Dibromochloromethane	4.18	ug/L			4.00	104	60 131		
Dibromofluoromethane	98.0	% Recovery			100	98.0	67 121		
Dibromomethane	3.98	ug/L			4.00	100	76 129		
Dichlorodifluoromethane	4.17	ug/L			4.00	104	64 149		
Diisopropyl ether	4.19	ug/L			4.00	105	62 137		
Ethylbenzene	4.30	ug/L			4.00	108	80 121		
Hexachlorobutadiene	4.09	ug/L			4.00	102	71 131		
sopropylbenzene	4.39	ug/L			4.00	110	75 122		
n & p-Xylene	8.63	ug/L			8.00	108	80 121		
Methyl tert-butyl ether	4.13	ug/L			4.00	103	63 135		
Methylene chloride	4.10	ug/L			4.00	102	38 174		
-Butylbenzene	4.25	ug/L			4.00	106	71 125		
-Propylbenzene	4.41	ug/L			4.00	110	76 122		
laphthalene	4.34	ug/L			4.00	108	64 126		
-Xylene	4.26	ug/L			4.00	106	77 120		
-Isopropyltoluene	4.39	ug/L			4.00	110	76 122		
ec-Butylbenzene	4.33	ug/L			4.00	108	75 122		
Styrene	4.35	ug/L			4.00	109	76 121		
ert-Butylbenzene	4.43	ug/L			4.00	111	77 120		
etrachloroethene	4.28	ug/L			4.00	107	75 127		
etrahydrofuran	39.9	ug/L			40.0	100	60 131		
oluene	4.32	ug/L			4.00	108	80 122		
ans-1,2-Dichloroethene	4.26	ug/L			4.00	106	68 136		
ans-1,3-Dichloropropene	4.31	ug/L			4.00	108	65 126		
richloroethene	4.35	ug/L			4.00	109	78 126		
richlorofluoromethane	4.28	ug/L			4.00	107	70 145		
inyl acetate	44.4	ug/L			40.0	111	38 152		
'inyl chloride	4.24	ug/L			4.00	106	71 135		

ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	120653	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	655094	Analysis Time:	16:42	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

r drent Gampie II.	Analyst. NED			r rep / trialyst.								
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit			
1,1,1,2-Tetrachloroethane	0.05	ug/L		U	0		0.05					
1,1,1-Trichloroethane	0.06	ug/L		U	0		0.06					
1,1,2,2-Tetrachloroethane	0.020	ug/L		U	0		0.020					
1,1,2-Trichloroethane	0.05	ug/L		U	0		0.05					
1,1-Dichloroethane	0.06	ug/L		U	0		0.06					
,1-Dichloroethene	0.07	ug/L		U	0		0.07					
,1-Dichloropropene	0.06	ug/L		U	0		0.06					
,2 Dichloroethane-d4	103	% Recovery			100	103	68 120					
,2,3-Trichlorobenzene	0.05	ug/L		U	0		0.05					
1,2,3-Trichloropropane	0.04	ug/L		U	0		0.04					
1,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04					
1,2,4-Trimethylbenzene	0.05	ug/L		U	0		0.05					
1,2-Dibromo-3-chloropropane	0.03	ug/L		U	0		0.03					
,2-Dibromoethane	0.04	ug/L		U	0		0.04					
1,2-Dichlorobenzene	0.06	ug/L		U	0		0.06					
1,2-Dichloroethane	0.04	ug/L		U	0		0.04					
,2-Dichloropropane	0.06	ug/L		U	0		0.06					
,3,5-Trimethylbenzene	0.06	ug/L		U	0		0.06					
,3-Dichlorobenzene	0.06	ug/L		U	0		0.06					
,3-Dichloropropane	0.04	ug/L		U	0		0.04					
,4-Dichlorobenzene	0.05	ug/L		U	0		0.05					
2,2-Dichloropropane	0.04	ug/L		U	0		0.04					
2-Butanone	8.0	ug/L		U	0		0.8					
2-Chlorotoluene	0.06	ug/L		U	0		0.06					
2-Hexanone	0.4	ug/L		U	0		0.4					
-Chlorotoluene	0.05	ug/L		U	0		0.05					
-Methyl-2-pentanone	0.4	ug/L		U	0		0.4					
Acetone	0.9	ug/L		U	0		0.9					
Benzene	0.06	ug/L		U	0		0.06					
Bromobenzene	0.04	ug/L		U	0		0.04					
Bromochloromethane	0.017	ug/L		U	0		0.017					
Bromodichloromethane	0.017	ug/L		U	0		0.017					
Bromofluorobenzene	100	% Recovery			100	100	68 120					
Bromoform	0.018	ug/L		U	0		0.018					
Bromomethane	0.09	ug/L		U	0		0.09					
Carbon disulfide	0.11	ug/L		U	0		0.11					
Carbon tetrachloride	0.06	ug/L		U	0		0.06					
Chlorobenzene	0.04	ug/L		U	0		0.04					
Chloroethane	0.06	ug/L		U	0		0.06					
Chloroform	0.06	ug/L		U	0		0.06					
Chloromethane	0.0667	ug/L			0		0.05					
cis-1,2-Dichloroethene	0.06	ug/L		U	0		0.06					

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ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	120653	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	655094	Analysis Time:	16:42	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.015	ug/L		U	0		0.015		
d8-Toluene	101	% Recovery			100	101	71 117		
Dibromochloromethane	0.016	ug/L		U	0		0.016		
Dibromofluoromethane	101	% Recovery			100	101	67 122		
Dibromomethane	0.06	ug/L		U	0		0.06		
Dichlorodifluoromethane	0.06	ug/L		U	0		0.06		
Diisopropyl ether	0.04	ug/L		U	0		0.04		
Ethylbenzene	0.06	ug/L		U	0		0.06		
Hexachlorobutadiene	0.07	ug/L		U	0		0.07		
sopropylbenzene	0.05	ug/L		U	0		0.05		
m & p-Xylene	0.12	ug/L		U	0		0.12		
Methyl tert-butyl ether	0.04	ug/L		U	0		0.04		
Methylene chloride	0.06	ug/L		U	0		0.06		
n-Butylbenzene	0.05	ug/L		U	0		0.05		
n-Propylbenzene	0.05	ug/L		U	0		0.05		
Naphthalene	0.05	ug/L		U	0		0.05		
o-Xylene	0.05	ug/L		U	0		0.05		
o-Isopropyltoluene	0.06	ug/L		U	0		0.06		
sec-Butylbenzene	0.05	ug/L		U	0		0.05		
Styrene	0.05	ug/L		U	0		0.05		
ert-Butylbenzene	0.06	ug/L		U	0		0.06		
Tetrachloroethene	0.06	ug/L		U	0		0.06		
Tetrahydrofuran	0.6	ug/L		U	0		0.6		
Toluene	0.06	ug/L		U	0		0.06		
rans-1,2-Dichloroethene	0.06	ug/L		U	0		0.06		
rans-1,3-Dichloropropene	0.014	ug/L		U	0		0.014		
Γrichloroethene	0.03	ug/L		U	0		0.03		
Trichlorofluoromethane	0.05	ug/L		U	0		0.05		
Vinyl acetate	0.5	ug/L		U	0		0.5		
Vinyl chloride	0.016	ug/L		U	0		0.016		

ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analytical Run #: Analysis Date: Prep Batch #: 120653 11/8/2015 Matrix: **GROUND WATER** CTLab #: Analysis Time: Prep Date/Time: Method: 655157 14:46 SW8260C Parent Sample #: 655156 Analyst: RLD Prep Analyst:

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery				RPD	RPD Limit	
1,1,1,2-Tetrachloroethane	3.52	ug/L	BDL		4.00	88	71		136	11	21	_
1,1,1-Trichloroethane	3.80	ug/L	BDL		4.00	95	77		150	12	20	
1,1,2,2-Tetrachloroethane	3.33	ug/L	BDL		4.00	83	68		139	9	22	
1,1,2-Trichloroethane	3.47	ug/L	BDL		4.00	87	70		139	5	25	
1,1-Dichloroethane	3.65	ug/L	0.11		4.00	88	65		149	12	25	
1,1-Dichloroethene	3.95	ug/L	BDL		4.00	99	56		164	12	24	
1,1-Dichloropropene	4.00	ug/L	BDL		4.00	100	65		146	9	21	
1,2 Dichloroethane-d4	92.0	% Recovery			100	92.0	65		128		7	
1,2,3-Trichlorobenzene	3.68	ug/L	BDL		4.00	92	62		135	8	31	
1,2,3-Trichloropropane	3.17	ug/L	BDL		4.00	79	66		145	4	26	
1,2,4-Trichlorobenzene	3.62	ug/L	BDL		4.00	90	61		132	6	29	
1,2,4-Trimethylbenzene	3.79	ug/L	BDL		4.00	95	1		154	13	36	
1,2-Dibromo-3-chloropropane	3.06	ug/L	BDL		4.00	76	49		144	4	34	
1,2-Dibromoethane	3.40	ug/L	BDL		4.00	85	76		132	10	22	
1,2-Dichlorobenzene	3.62	ug/L	BDL		4.00	90	78		128	9	23	
1,2-Dichloroethane	3.36	ug/L	BDL		4.00	84	70		147	8	21	
1,2-Dichloropropane	3.40	ug/L	BDL		4.00	85	72		138	11	19	
1,3,5-Trimethylbenzene	3.81	ug/L	BDL		4.00	95	1		151	11	34	
1,3-Dichlorobenzene	3.67	ug/L	BDL		4.00	92	78		127	11	22	
1,3-Dichloropropane	3.42	ug/L	BDL		4.00	86	73		136	6	23	
1,4-Dichlorobenzene	3.54	ug/L	BDL		4.00	88	78		127	10	22	
2,2-Dichloropropane	3.48	ug/L	BDL		4.00	87	50		165	14	21	
2-Butanone	31.3	ug/L	BDL		40.0	78	45		160	3	29	
2-Chlorotoluene	3.67	ug/L	BDL		4.00	92	74		130	11	20	
2-Hexanone	31.5	ug/L	BDL		40.0	79	55		143	9	28	
4-Chlorotoluene	3.69	ug/L	BDL		4.00	92	57		131	10	22	
4-Methyl-2-pentanone	34.2	ug/L	BDL		40.0	86	58		146	7	29	
Acetone	23.1	ug/L	BDL		40.0	58	27		172	7	39	
Benzene	3.67	ug/L	BDL		4.00	92	81		134	11	17	
Bromobenzene	3.53	ug/L	BDL		4.00	88	80		127	11	20	
Bromochloromethane	3.49	ug/L	BDL		4.00	87	73		143	10	22	
Bromodichloromethane	3.51	ug/L	BDL		4.00	88	64		139	11	20	
Bromofluorobenzene	97.0	% Recovery			100	97.0	67		120		7	
Bromoform	3.25	ug/L	BDL		4.00	81	49		125	11	28	
Bromomethane	3.68	ug/L	BDL		4.00	92	59		167	18	34	
Carbon disulfide	7.68	ug/L	BDL		8.00	96	12		140	11	31	
Carbon tetrachloride	4.01	ug/L	BDL		4.00	100	74		153	11	20	
Chlorobenzene	3.57	ug/L	BDL		4.00	89	82		130	11	21	
Chloroethane	3.89	ug/L	BDL		4.00	97	64		165	10	26	
Chloroform	3.58	ug/L	BDL		4.00	90	73		138	11	18	
Chloromethane	3.41	ug/L	BDL		4.00	85	62		157	15	21	
cis-1,2-Dichloroethene	3.64	ug/L	BDL		4.00	91	75		152	10	21	

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ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analytical Run #:	120653	Analysis Date:	11/8/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	655157	Analysis Time:	14:46	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	655156	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imits		RPD	RPD Limit
cis-1,3-Dichloropropene	3.40	ug/L	BDL		4.00	85	61		129	9	21
d8-Toluene	100	% Recovery			100	100	60		119		7
Dibromochloromethane	3.36	ug/L	BDL		4.00	84	56		130	9	23
Dibromofluoromethane	102	% Recovery			100	102	65		128		7
Dibromomethane	3.27	ug/L	BDL		4.00	82	71		142	11	21
Dichlorodifluoromethane	3.95	ug/L	BDL		4.00	99	62		196	12	22
Diisopropyl ether	3.47	ug/L	BDL		4.00	87	46		161	11	27
Ethylbenzene	3.71	ug/L	BDL		4.00	93	52		139	12	24
Hexachlorobutadiene	3.92	ug/L	BDL		4.00	98	66		147	9	30
sopropylbenzene	3.81	ug/L	BDL		4.00	95	50		135	12	24
m & p-Xylene	7.51	ug/L	BDL		8.00	94	1		156	12	28
Methyl tert-butyl ether	3.40	ug/L	BDL		4.00	85	46		161	9	33
Methylene chloride	3.18	ug/L	BDL		4.00	80	10		181	12	36
n-Butylbenzene	3.88	ug/L	BDL		4.00	97	46		144	10	24
n-Propylbenzene	3.84	ug/L	BDL		4.00	96	51		139	13	23
Naphthalene	3.47	ug/L	BDL		4.00	87	45		135	5	31
o-Xylene	3.60	ug/L	BDL		4.00	90	11		148	13	26
o-Isopropyltoluene	3.90	ug/L	BDL		4.00	98	18		148	11	27
sec-Butylbenzene	3.99	ug/L	BDL		4.00	100	57		138	10	23
Styrene	3.67	ug/L	BDL		4.00	92	1		159	10	40
ert-Butylbenzene	3.93	ug/L	BDL		4.00	98	74		132	11	22
Tetrachloroethene	3.93	ug/L	BDL		4.00	98	79		144	11	21
Tetrahydrofuran	31.8	ug/L	BDL		40.0	80	51		139	6	28
Toluene	3.77	ug/L	BDL		4.00	94	56		141	11	19
rans-1,2-Dichloroethene	3.72	ug/L	BDL		4.00	93	53		161	13	28
rans-1,3-Dichloropropene	3.36	ug/L	BDL		4.00	84	57		124	9	21
richloroethene	3.78	ug/L	BDL		4.00	94	74		138	11	19
Trichlorofluoromethane	4.06	ug/L	BDL		4.00	102	83		174	15	23
√inyl acetate	36.4	ug/L	BDL		40.0	91	0		198	8	25
/inyl chloride	4.04	ug/L	BDL		4.00	101	65		168	11	21

ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Matrix Spike Water

Analytical Run #: Prep Batch #: 120653 Analysis Date: 11/8/2015 Matrix: **GROUND WATER** CTLab #: Analysis Time: Prep Date/Time: Method: 655156 14:17 SW8260C Parent Sample #: 653427 Analyst: RLD Prep Analyst:

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imits		RPD	RPD Limit
,1,1,2-Tetrachloroethane	3.94	ug/L	BDL		4.00	98	71		136		21
,1,1-Trichloroethane	4.30	ug/L	BDL		4.00	108	77		150		20
,1,2,2-Tetrachloroethane	3.63	ug/L	BDL		4.00	91	68		139		22
,1,2-Trichloroethane	3.63	ug/L	BDL		4.00	91	70		139		25
,1-Dichloroethane	4.11	ug/L	0.11		4.00	100	65		149		25
,1-Dichloroethene	4.47	ug/L	BDL		4.00	112	56		164		24
,1-Dichloropropene	4.37	ug/L	BDL		4.00	109	65		146		21
,2 Dichloroethane-d4	90.0	% Recovery			100	90.0	65		128		7
,2,3-Trichlorobenzene	3.97	ug/L	BDL		4.00	99	62		135		31
,2,3-Trichloropropane	3.28	ug/L	BDL		4.00	82	66		145		26
,2,4-Trichlorobenzene	3.85	ug/L	BDL		4.00	96	61		132		29
,2,4-Trimethylbenzene	4.30	ug/L	BDL		4.00	108	1		154		36
,2-Dibromo-3-chloropropane	3.17	ug/L	BDL		4.00	79	49		144		34
,2-Dibromoethane	3.74	ug/L	BDL		4.00	94	76		132		22
,2-Dichlorobenzene	3.97	ug/L	BDL		4.00	99	78		128		23
,2-Dichloroethane	3.64	ug/L	BDL		4.00	91	70		147		21
,2-Dichloropropane	3.78	ug/L	BDL		4.00	94	72		138		19
,3,5-Trimethylbenzene	4.24	ug/L	BDL		4.00	106	1		151		34
,3-Dichlorobenzene	4.08	ug/L	BDL		4.00	102	78		127		22
,3-Dichloropropane	3.64	ug/L	BDL		4.00	91	73		136		23
,4-Dichlorobenzene	3.92	ug/L	BDL		4.00	98	78		127		22
,2-Dichloropropane	4.00	ug/L	BDL		4.00	100	50		165		21
-Butanone	32.1	ug/L	BDL		40.0	80	45		160		29
-Chlorotoluene	4.10	ug/L	BDL		4.00	102	74		130		20
-Hexanone	34.4	ug/L	BDL		40.0	86	55		143		28
-Chlorotoluene	4.09	ug/L	BDL		4.00	102	57		131		22
-Methyl-2-pentanone	36.6	ug/L	BDL		40.0	92	58		146		29
Acetone	24.9	ug/L	BDL		40.0	62	27		172		39
Benzene	4.12	ug/L	BDL		4.00	103	81		134		17
Bromobenzene	3.93	ug/L	BDL		4.00	98	80		127		20
Bromochloromethane	3.86	ug/L	BDL		4.00	96	73		143		22
Bromodichloromethane	3.92	ug/L	BDL		4.00	98	64		139		20
Bromofluorobenzene	96.0	% Recovery			100	96.0	67		120		7
Bromoform	3.62	ug/L	BDL		4.00	90	49		125		28
Bromomethane	4.41	ug/L	BDL		4.00	110	59		167		34
arbon disulfide	8.58	ug/L	BDL		8.00	107	12		140		31
Carbon tetrachloride	4.46	ug/L	BDL		4.00	112	74		153		20
Chlorobenzene	4.01	ug/L	BDL		4.00	100	82		130		21
Chloroethane	4.29	ug/L	BDL		4.00	107	64		165		26
Chloroform	4.01	ug/L	BDL		4.00	100	73		138		18
Chloromethane	3.97	ug/L	BDL		4.00	99	62		157		21
is-1,2-Dichloroethene	4.04	ug/L	BDL		4.00	101	75		152		21

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ELECTROPLATING

SDG #: 0 Folder #: 115169 Project Number: 117-7413001.01

Matrix Spike Water

Analytical Run #:	120653	Analysis Date:	11/8/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	655156	Analysis Time:	14:17	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	653427	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro Limit		RPD	RPD Limit
cis-1,3-Dichloropropene	3.74	ug/L	BDL		4.00	94	61		129		21
d8-Toluene	101	% Recovery			100	101	60		119		7
Dibromochloromethane	3.68	ug/L	BDL		4.00	92	56		130		23
Dibromofluoromethane	100	% Recovery			100	100	65		128		7
Dibromomethane	3.65	ug/L	BDL		4.00	91	71		142		21
Dichlorodifluoromethane	4.47	ug/L	BDL		4.00	112	62		196		22
Diisopropyl ether	3.87	ug/L	BDL		4.00	97	46		161		27
Ethylbenzene	4.17	ug/L	BDL		4.00	104	52		139		24
Hexachlorobutadiene	4.27	ug/L	BDL		4.00	107	66		147		30
sopropylbenzene	4.31	ug/L	BDL		4.00	108	50		135		24
n & p-Xylene	8.50	ug/L	BDL		8.00	106	1		156		28
Methyl tert-butyl ether	3.73	ug/L	BDL		4.00	93	46		161		33
Methylene chloride	3.57	ug/L	BDL		4.00	89	10		181		36
n-Butylbenzene	4.29	ug/L	BDL		4.00	107	46		144		24
n-Propylbenzene	4.35	ug/L	BDL		4.00	109	51		139		23
Naphthalene	3.67	ug/L	BDL		4.00	92	45		135		31
o-Xylene	4.09	ug/L	BDL		4.00	102	11		148		26
o-Isopropyltoluene	4.37	ug/L	BDL		4.00	109	18		148		27
sec-Butylbenzene	4.42	ug/L	BDL		4.00	110	57		138		23
Styrene	4.08	ug/L	BDL		4.00	102	1		159		40
ert-Butylbenzene	4.38	ug/L	BDL		4.00	110	74		132		22
etrachloroethene	4.40	ug/L	BDL		4.00	110	79		144		21
Tetrahydrofuran	33.8	ug/L	BDL		40.0	84	51		139		28
Toluene	4.21	ug/L	BDL		4.00	105	56		141		19
rans-1,2-Dichloroethene	4.25	ug/L	BDL		4.00	106	53		161		28
rans-1,3-Dichloropropene	3.68	ug/L	BDL		4.00	92	57		124		21
richloroethene	4.22	ug/L	BDL		4.00	106	74		138		19
richlorofluoromethane	4.71	ug/L	BDL		4.00	118	83		174		23
/inyl acetate	39.5	ug/L	BDL		40.0	99	0		198		25
/inyl chloride	4.49	ug/L	BDL		4.00	112	65		168		21

TETRA TECH Project

Folder #: 115169

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Lab Control Spike V	water
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Analytical Run #: CTLab #:	120831 656351	Analysis Date: Analysis Time:	11/11/2015 09:28	Prep Batch #: Prep Date/Time:	55029 11/11/201 5 07:30	Matrix: Method:	LIQUID RSK175	
Parent Sample #:		Analyst:	BMS	Prep Analyst:	BMS			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ntro mits		RPD	RPD Limit
Acetylene	2.97	ug/L			3.06	97	70		130		20
Ethane	5.69	ug/L			4.77	119	70		130		20
Ethene	8.13	ug/L			6.79	120	65		124		20
Methane	2.70	ug/L			2.29	118	70		130		20

TETRA TECH

Folder #: 115169

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Met	hod	Blan	ık V	Vater

_								
	Analytical Run #:	120831	Analysis Date:	11/11/2015	Prep Batch #:	55029	Matrix:	LIQUID
	CTLab #:	656350	Analysis Time:	09:39	Prep Date/Time:	11/11/201507:30	Method:	RSK175
	Parent Sample #:		Analyst:	BMS	Prep Analyst:	BMS		
L								

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Acetylene	0.23	ug/L		U	0		0.23		
Ethane	0.9	ug/L		U	0		0.9		
Ethene	1.2	ug/L		U	0		1.2		
Methane	0.4	ug/L		U	0		0.4		



Sample Condition Report

Folder #:

115169

Client:

TETRA TECH

Print Date / Time:

Received Date / Time / By:

11/04/2015

13:03

11/04/2015

1100

DJL

Project Name: OCONOMOWOC ELECTROPLATING

Project Phase:

Log-In Date / Time / By: Project #:

11/04/2015 117-7413001.01

1224

JLS PM: **PML**

Coolers: 5723

Custody Seals Present: N

Temperature: COC Present:?

2.1 C Complete?

On Ice: Υ

Seal Intact?

Ν Ship Method:

FEDEX EXPRESS

Numbers: Tracking Number: DATED AND SIGNED

774894300483

Adequate Packaging: Y

Temp Blank Enclosed?

Υ

Υ

Notes: SAMPLES RECEIVED IN GOOD CONDITION ON ICE

NO CUSTODY SEALS PRESENT, TAPE WAS INTACT

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
653389 PW-09				
	VOA HCL	1	/	VOC
	VOA HCL	1	,	VOC
	VOA HCL	1	,	VOC
	Total # of Containe	•	OA HCL) = 3	100
	Total # of Containe	or type (v	SATIOL) = 0	
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
653419 PW-04				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	,	VOC
	Total # of Containe	•	OA HCL) = 3	,,,,
	Total # 01 Comains	ло ст. турс (т.	<i>,</i> – c	
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
653420 MW-1D				
	UNPRES PL	1	/	ALK, Anions
	Total # of Containe	ers of Type (<i>Ul</i>	NPRES PL) = 1	,
653420 MW-1D				
	VOA HCL	1	/	GAS,VOC
	VOA HCL	1	/	GAS, VOC
	VOA HCL	1	/	GAS, VOC
	VOA HCL	1	/	GAS, VOC
	VOA HCL	1	/	GAS, VOC
	Total # of Containe	ers of Type (V	OA HCL) = 5	
	. C.a. " O. Containe			
653420 MW-1D				
	HNO3 Total # of Containe	1	/	ICP
			VO3) = 1	

115169

653420 MW-1D		
033420 WIVV-1D	H2SO4 PL 1 / Total # of Containers of Type (H2SO4 PL) = 1	тос
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653425 MW-1D	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653427 MW-1S	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
653427 MW-1S	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 5	GAS,VOC GAS,VOC GAS,VOC GAS,VOC
653427 MW-1S	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 1	GAS,VOC/
653427 MW-1S	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
653427 MW-1S	H2SO4 PL 1 / Total # of Containers of Type (H2SO4 PL) = 1	TOC
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653428 MW-1S	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653429 MW-9S	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
653429 MW-9S	VOA HCL 1 / VOA HCL 1 / VOA HCL 1 /	GAS,VOC GAS,VOC GAS,VOC

		VOA HCL 1 / VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 5	GAS,VOC GAS,VOC
653429	MW-9S	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 1	GAS,VOC/
653429	MW-9S	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
653429	MW-9S	H2SO4 PL 1 / Total # of Containers of Type (H2SO4 PL) = 1	TOC
Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653430	MW-9S	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
Sample II	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653431	MW-5D	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
653431	MW-5D	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 5	GAS,VOC GAS,VOC GAS,VOC GAS,VOC
653431	MW-5D	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 1	GAS,VOC/
653431	MW-5D	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
653431	MW-5D	H2SO4 PL 1 / Total # of Containers of Type (H2SO4 PL) = 1	тос
Sample II	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653432	MW-5D	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP

Sample II	O / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
653433	MW-105S	UNPRES PL Total # of Contain	1 ers of Type (<i>U</i>	NPRES PL) = 1	ALK,Anions
653433	MW-105S	VOA HCL VOA HCL VOA HCL VOA HCL VOA HCL Total # of Contain	1 1 1 1 ers of Type (<i>V</i>	/ / / OA HCL) = 5	GAS,VOC GAS,VOC GAS,VOC GAS,VOC
53433	MW-105S	VOA HCL Total # of Contain	1 ers of Type (<i>V</i>	OA HCL) = 1	GAS,VOC/
53433	MW-105S	HNO3 Total # of Contain	1 ers of Type (<i>H</i>	NO3) = 1	ICP
53433	MW-105S	H2SO4 PL Total # of Contain	1 ers of Type (<i>H</i>	2SO4 PL) = 1	TOC
ample II	O / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
53434	MW-105S	HNO3 Total # of Contain	1 ers of Type (<i>H</i>	NO3) = 1	ICP
ample II	D / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
53435	MW-105S DUP	UNPRES PL Total # of Contain	1 ers of Type (<i>U</i>	NPRES PL) = 1	ALK,Anions
553435	MW-105S DUP	VOA HCL VOA HCL VOA HCL VOA HCL VOA HCL Total # of Contain	1 1 1 1 1 ers of Type (<i>V</i>	/ / / OA HCL) = 5	GAS,VOC GAS,VOC GAS,VOC GAS,VOC
53435	MW-105S DUP	VOA HCL Total # of Contain	1 ers of Type (<i>V</i>	OA HCL) = 1	GAS,VOC/
553435	MW-105S DUP	HNO3	1	/	ICP

653435	MW-105S DUP		
033433	MW-1055 DUF	H2SO4 PL 1 / Total # of Containers of Type (H2SO4 PL) = 1	тос
Sample ID) / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653436	MW-105S DUP	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID) / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653437	MW-105D	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
653437	MW-105D	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 5	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
653437	MW-105D	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 1	GAS,VOC/
653437	MW-105D	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
653437	MW-105D	H2SO4 PL 1 / Total # of Containers of Type (H2SO4 PL) = 1	TOC
Sample ID) / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653438	MW-105D	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID) / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653439	MW-105B	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
653439	MW-105B	VOA HCL 1 /	GAS,VOC

	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 5	GAS,VOC GAS,VOC GAS,VOC GAS,VOC
653439 MW-105B	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 1	GAS,VOC/
653439 MW-105B	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
653439 MW-105B	H2SO4 PL 1 / Total # of Containers of Type (H2SO4 PL) = 1	TOC
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653440 MW-105B	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
653465 TRIP BLANK 1	Trip Blank 1 / Trip Blank 1 / Trip Blank 1 / Trip Blank 1 / Total # of Containers of Type (<i>Trip Blank</i>) = 3	VOC VOC VOC

Condition CodeCondition Description1Sample Received OK

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ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



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ANALYTICAL REPORT

TETRA TECH
MARK MANTHEY

175 N CORPORATE DRIVE

SUITE 100

BROOKFIELD, WI 53045

Project Name: OCONOMOWOC ELECTROPLATING

Project Phase:

Contract #: 2747

Project #: 117-7413001.01

Folder #: 115214

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Arrival Temperature: 2.9

Report Date: 11/23/2015

Date Received: 11/5/2015

Reprint Date: 12/4/2015

Purchase Order #:

CT LAB Sample#: 653981 Sample I	ple#: 653981 Sample Description: MW-103D									l: 11/4/2015 1010
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Conductivity (Field)	923	umhos/cm	N/A	N/A	1			12/4/2015 12	:30 PML	
Dissolved Oxygen (Field)	0.46	mg/L	N/A	N/A	1			12/4/2015 12	:30 PML	
pH (Field)	7.11	S.U.	N/A	N/A	1			12/4/2015 12	:30 PML	
Temperature (Field)	13.82	Deg. C	N/A	N/A	1			12/4/2015 12	:30 PML	
Depth to Groundwater (Field)	6.29	Feet	N/A	N/A	1			12/4/2015 12	:30 PML	
Groundwater Elevation (Field)	845.68	Feet MSL	N/A	N/A	1			12/4/2015 12	:30 PML	
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12	:30 PML	
OX/REDOX (Field)	78	MV	N/A	N/A	1			12/4/2015 12	:30 PML	
Inorganic Results										
Alkalinity Total	440	mg/L	5.0	18	1			11/9/2015 14	:17 MER	EPA 310.2
Total Chloride	150	mg/L	2.0	7.0	2			11/10/2015 11	:03 JJF	EPA 9056A
Total Sulfate	62	mg/L	2.0	6.8	2			11/10/2015 11	:03 JJF	EPA 9056A
Total Organic Carbon	3.9	mg/L	0.40	1.4	1			11/7/2015 01	:02 JJF	EPA 9060A

Metals Results

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	st Method	l .
Total Iron	0.0614	mg/L	0.020 *	0.065	1		11/16/2015 12:00	11/17/2015 17:23	AH EPA 6010	0C
Total Manganese	309	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 17:23 I	AH EPA 6010	0C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 10:06 I	MS Mod RSK	(175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 10:06 I	MS Mod RSK	(175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 10:06 I	MS Mod RSK	(175
Methane	4.5	ug/L	0.40	1.4	1		11/11/2015 07:30	11/11/2015 10:06 I	MS Mod RSK	(175
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	3.6	20			11/8/2015 11:53	LD EPA 8260	0C
1,1,1-Trichloroethane	46	ug/L	1.2	4.2	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,1,2,2-Tetrachloroethane	<0.40	ug/L	0.40	1.3	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,1,2-Trichloroethane	<1.0	ug/L	1.0	3.4	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,1-Dichloroethane	7.0	ug/L	1.2	3.8	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,1-Dichloroethene	2.3	ug/L	1.4 *	4.6	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,1-Dichloropropene	<1.2	ug/L	1.2	3.8	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	3.2	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,2,3-Trichloropropane	<0.80	ug/L	0.80	2.6	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,2,4-Trichlorobenzene	<0.80	ug/L	0.80	2.6	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	3.4	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,2-Dibromo-3-chloropropane	<0.60	ug/L	0.60	2.0	20			11/8/2015 11:53	LD EPA 8260	0C
1,2-Dibromoethane	<0.80	ug/L	0.80	2.8	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,2-Dichlorobenzene	<1.2	ug/L	1.2	3.8	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,2-Dichloroethane	<0.80	ug/L	0.80	2.8	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,2-Dichloropropane	<1.2	ug/L	1.2	4.0	20			11/8/2015 11:53 I	LD EPA 8260	0C
1,3,5-Trimethylbenzene	<1.2	ug/L	1.2	4.0	20			11/8/2015 11:53	LD EPA 8260	0C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,3-Dichlorobenzene	<1.2	ug/L	1.2	4.2	20			11/8/2015 11:53 RLD	EPA 8260C
1,3-Dichloropropane	<0.80	ug/L	0.80	2.6	20			11/8/2015 11:53 RLD	EPA 8260C
1,4-Dichlorobenzene	<1.0	ug/L	1.0	3.2	20			11/8/2015 11:53 RLD	EPA 8260C
2,2-Dichloropropane	<0.80	ug/L	0.80	2.4	20			11/8/2015 11:53 RLD	EPA 8260C
-Butanone	<16	ug/L	16	56	20			11/8/2015 11:53 RLD	EPA 8260C
-Chlorotoluene	<1.2	ug/L	1.2	3.8	20			11/8/2015 11:53 RLD	EPA 8260C
-Hexanone	<8.0	ug/L	8.0	28	20			11/8/2015 11:53 RLD	EPA 8260C
-Chlorotoluene	<1.0	ug/L	1.0	3.6	20			11/8/2015 11:53 RLD	EPA 8260C
-Methyl-2-pentanone	<8.0	ug/L	8.0	28	20			11/8/2015 11:53 RLD	EPA 8260C
cetone	<18	ug/L	18	62	20			11/8/2015 11:53 RLD	EPA 8260C
enzene	<1.2	ug/L	1.2	3.6	20			11/8/2015 11:53 RLD	EPA 8260C
romobenzene	<0.80	ug/L	0.80	2.8	20			11/8/2015 11:53 RLD	EPA 8260C
romochloromethane	<0.34	ug/L	0.34	1.2	20			11/8/2015 11:53 RLD	EPA 8260C
romodichloromethane	<0.34	ug/L	0.34	1.2	20			11/8/2015 11:53 RLD	EPA 8260C
Bromoform	<0.36	ug/L	0.36	1.2	20			11/8/2015 11:53 RLD	EPA 8260C
Bromomethane	<1.8	ug/L	1.8	5.8	20			11/8/2015 11:53 RLD	EPA 8260C
Carbon disulfide	<2.2	ug/L	2.2	7.6	20			11/8/2015 11:53 RLD	EPA 8260C
Carbon tetrachloride	<1.2	ug/L	1.2	4.0	20			11/8/2015 11:53 RLD	EPA 8260C
Chlorobenzene	<0.80	ug/L	0.80	2.8	20			11/8/2015 11:53 RLD	EPA 8260C
Chloroethane	<1.2	ug/L	1.2	4.2	20			11/8/2015 11:53 RLD	EPA 8260C
Chloroform	<1.2	ug/L	1.2	4.0	20			11/8/2015 11:53 RLD	EPA 8260C
Chloromethane	<1.0	ug/L	1.0	3.6	20			11/8/2015 11:53 RLD	EPA 8260C
is-1,2-Dichloroethene	48	ug/L	1.2	4.2	20			11/8/2015 11:53 RLD	EPA 8260C
is-1,3-Dichloropropene	<0.30	ug/L	0.30	0.98	20			11/8/2015 11:53 RLD	EPA 8260C
Dibromochloromethane	<0.32	ug/L	0.32	1.1	20			11/8/2015 11:53 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Dibromomethane	<1.2	ug/L	1.2	3.8	20			11/8/2015 11:53 RLD	EPA 8260C
Dichlorodifluoromethane	<1.2	ug/L	1.2	3.8	20			11/8/2015 11:53 RLD	EPA 8260C
Diisopropyl ether	<0.80	ug/L	0.80	3.0	20			11/8/2015 11:53 RLD	EPA 8260C
Ethylbenzene	<1.2	ug/L	1.2	4.2	20			11/8/2015 11:53 RLD	EPA 8260C
Hexachlorobutadiene	<1.4	ug/L	1.4	4.8	20			11/8/2015 11:53 RLD	EPA 8260C
sopropylbenzene	<1.0	ug/L	1.0	3.4	20			11/8/2015 11:53 RLD	EPA 8260C
n & p-Xylene	<2.4	ug/L	2.4	8.0	20			11/8/2015 11:53 RLD	EPA 8260C
Methyl tert-butyl ether	<0.80	ug/L	0.80	3.0	20			11/8/2015 11:53 RLD	EPA 8260C
Methylene chloride	<1.2	ug/L	1.2	4.2	20			11/8/2015 11:53 RLD	EPA 8260C
-Butylbenzene	<1.0	ug/L	1.0	3.4	20			11/8/2015 11:53 RLD	EPA 8260C
-Propylbenzene	<1.0	ug/L	1.0	3.2	20			11/8/2015 11:53 RLD	EPA 8260C
laphthalene	<1.0	ug/L	1.0	3.6	20			11/8/2015 11:53 RLD	EPA 8260C
-Xylene	<1.0	ug/L	1.0	3.2	20			11/8/2015 11:53 RLD	EPA 8260C
-Isopropyltoluene	<1.2	ug/L	1.2	4.2	20			11/8/2015 11:53 RLD	EPA 8260C
ec-Butylbenzene	<1.0	ug/L	1.0	3.6	20			11/8/2015 11:53 RLD	EPA 8260C
Styrene	<1.0	ug/L	1.0	3.0	20			11/8/2015 11:53 RLD	EPA 8260C
ert-Butylbenzene	<1.2	ug/L	1.2	3.8	20			11/8/2015 11:53 RLD	EPA 8260C
etrachloroethene	<1.2	ug/L	1.2	4.0	20			11/8/2015 11:53 RLD	EPA 8260C
etrahydrofuran	<12	ug/L	12	42	20			11/8/2015 11:53 RLD	EPA 8260C
oluene	<1.2	ug/L	1.2	4.2	20			11/8/2015 11:53 RLD	EPA 8260C
rans-1,2-Dichloroethene	<1.2	ug/L	1.2	4.0	20			11/8/2015 11:53 RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.96	20			11/8/2015 11:53 RLD	EPA 8260C
richloroethene	420	ug/L	1.5	5.0	50			11/7/2015 02:11 RLD	EPA 8260C
richlorofluoromethane	<1.0	ug/L	1.0	3.6	20			11/8/2015 11:53 RLD	EPA 8260C
/inyl acetate	<10	ug/L	10	32	20			11/8/2015 11:53 RLD	EPA 8260C

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CT LAB Sample#: 653981 Sample Description: MW-103D License/Well #: 4189/040 Sampled: 11/4/2015 1010

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Vinyl chloride	0.50	ug/L	0.32 *	1.0	20			11/8/2015 11:53 RLD EPA 8260C
CT LAB Sample#: 653982 San	nple Description: MW-1	03D					License/V	Vell #: 4189/040 Sampled: 11/4/2015 1010
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Metals Results								
Dissolved Iron	0.0399	mg/L	0.010	0.032	1			11/13/2015 18:41 NAH EPA 6010C
Dissolved Manganese	280	ug/L	1.6	5.3	1			11/13/2015 18:41 NAH EPA 6010C
CT LAB Sample#: 653988 San	nple Description: MW-1	03D DUP					License/V	Vell #: 4189/040 Sampled: 11/4/2015 1020
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Inorganic Results								
Alkalinity Total	440	mg/L	5.0	18	1			11/9/2015 14:22 MER EPA 310.2
Total Chloride	150	mg/L	2.0	7.0	2			11/6/2015 10:44 JJF EPA 9056A
Total Sulfate	61	mg/L	2.0	6.8	2			11/6/2015 10:44 JJF EPA 9056A
Total Organic Carbon	4.1	mg/L	0.40	1.4	1			11/7/2015 01:13 JJF EPA 9060A
Metals Results								
Total Iron	0.0473	mg/L	0.020 *	0.065	1		11/16/2015 12:00	11/17/2015 17:45 NAH EPA 6010C
Total Manganese	294	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 17:45 NAH EPA 6010C
Organic Results								
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 10:18 BMS Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 10:18 BMS Mod RSK 175

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TETRA TECH

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	Sample Description: MW-103D DUP		Sampled: 11/4/2015 1020
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	nalyst	Method
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 10:18	BMS	Mod RSK 175
Methane	5.2	ug/L	0.40	1.4	1		11/11/2015 07:30	11/11/2015 10:18	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	3.6	20			11/8/2015 12:21	RLD	EPA 8260C
1,1,1-Trichloroethane	43	ug/L	1.2	4.2	20			11/8/2015 12:21	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.40	ug/L	0.40	1.3	20			11/8/2015 12:21	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.0	ug/L	1.0	3.4	20			11/8/2015 12:21	RLD	EPA 8260C
1,1-Dichloroethane	7.1	ug/L	1.2	3.8	20			11/8/2015 12:21	RLD	EPA 8260C
1,1-Dichloroethene	2.4	ug/L	1.4 *	4.6	20			11/8/2015 12:21	RLD	EPA 8260C
1,1-Dichloropropene	<1.2	ug/L	1.2	3.8	20			11/8/2015 12:21	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	3.2	20			11/8/2015 12:21	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.80	ug/L	0.80	2.6	20			11/8/2015 12:21	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.80	ug/L	0.80	2.6	20			11/8/2015 12:21	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	3.4	20			11/8/2015 12:21	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.60	ug/L	0.60	2.0	20			11/8/2015 12:21	RLD	EPA 8260C
1,2-Dibromoethane	<0.80	ug/L	0.80	2.8	20			11/8/2015 12:21	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.2	ug/L	1.2	3.8	20			11/8/2015 12:21	RLD	EPA 8260C
1,2-Dichloroethane	<0.80	ug/L	0.80	2.8	20			11/8/2015 12:21	RLD	EPA 8260C
1,2-Dichloropropane	<1.2	ug/L	1.2	4.0	20			11/8/2015 12:21	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1.2	ug/L	1.2	4.0	20			11/8/2015 12:21	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.2	ug/L	1.2	4.2	20			11/8/2015 12:21	RLD	EPA 8260C
1,3-Dichloropropane	<0.80	ug/L	0.80	2.6	20			11/8/2015 12:21	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.0	ug/L	1.0	3.2	20			11/8/2015 12:21	RLD	EPA 8260C
2,2-Dichloropropane	<0.80	ug/L	0.80	2.4	20			11/8/2015 12:21	RLD	EPA 8260C
2-Butanone	<16	ug/L	16	56	20			11/8/2015 12:21	RLD	EPA 8260C
2-Chlorotoluene	<1.2	ug/L	1.2	3.8	20			11/8/2015 12:21	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Aı Date/Time	nalyst	Method
2-Hexanone	<8.0	ug/L	8.0	28	20			11/8/2015 12:21	RLD	EPA 8260C
4-Chlorotoluene	<1.0	ug/L	1.0	3.6	20			11/8/2015 12:21	RLD	EPA 8260C
4-Methyl-2-pentanone	<8.0	ug/L	8.0	28	20			11/8/2015 12:21	RLD	EPA 8260C
Acetone	<18	ug/L	18	62	20			11/8/2015 12:21	RLD	EPA 8260C
Benzene	<1.2	ug/L	1.2	3.6	20			11/8/2015 12:21	RLD	EPA 8260C
Bromobenzene	<0.80	ug/L	0.80	2.8	20			11/8/2015 12:21	RLD	EPA 8260C
Bromochloromethane	<0.34	ug/L	0.34	1.2	20			11/8/2015 12:21	RLD	EPA 8260C
Bromodichloromethane	<0.34	ug/L	0.34	1.2	20			11/8/2015 12:21	RLD	EPA 8260C
Bromoform	<0.36	ug/L	0.36	1.2	20			11/8/2015 12:21	RLD	EPA 8260C
Bromomethane	<1.8	ug/L	1.8	5.8	20			11/8/2015 12:21	RLD	EPA 8260C
Carbon disulfide	<2.2	ug/L	2.2	7.6	20			11/8/2015 12:21	RLD	EPA 8260C
Carbon tetrachloride	<1.2	ug/L	1.2	4.0	20			11/8/2015 12:21	RLD	EPA 8260C
Chlorobenzene	<0.80	ug/L	0.80	2.8	20			11/8/2015 12:21	RLD	EPA 8260C
Chloroethane	<1.2	ug/L	1.2	4.2	20			11/8/2015 12:21	RLD	EPA 8260C
Chloroform	<1.2	ug/L	1.2	4.0	20			11/8/2015 12:21	RLD	EPA 8260C
Chloromethane	<1.0	ug/L	1.0	3.6	20			11/8/2015 12:21	RLD	EPA 8260C
cis-1,2-Dichloroethene	50	ug/L	1.2	4.2	20			11/8/2015 12:21	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.30	ug/L	0.30	0.98	20			11/8/2015 12:21	RLD	EPA 8260C
Dibromochloromethane	<0.32	ug/L	0.32	1.1	20			11/8/2015 12:21	RLD	EPA 8260C
Dibromomethane	<1.2	ug/L	1.2	3.8	20			11/8/2015 12:21	RLD	EPA 8260C
Dichlorodifluoromethane	<1.2	ug/L	1.2	3.8	20			11/8/2015 12:21	RLD	EPA 8260C
Diisopropyl ether	<0.80	ug/L	0.80	3.0	20			11/8/2015 12:21	RLD	EPA 8260C
Ethylbenzene	<1.2	ug/L	1.2	4.2	20			11/8/2015 12:21	RLD	EPA 8260C
Hexachlorobutadiene	<1.4	ug/L	1.4	4.8	20			11/8/2015 12:21	RLD	EPA 8260C
Isopropylbenzene	<1.0	ug/L	1.0	3.4	20			11/8/2015 12:21	RLD	EPA 8260C

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TETRA TECH

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CT LAB Sample#: 653988	Sample Description: MW-103D DUP	License/Well #: 4189/040	Sampled: 11/4/2015 1020
or End campion: cocco	Campio Bocomption: WIV 100B Bot	210011007 10011 11. 110070 10	Gampioa: 11/1/2010 1020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
m & p-Xylene	<2.4	ug/L	2.4	8.0	20			11/8/2015 12:	21 RLD	EPA 8260C
Methyl tert-butyl ether	<0.80	ug/L	0.80	3.0	20			11/8/2015 12:	21 RLD	EPA 8260C
Methylene chloride	<1.2	ug/L	1.2	4.2	20			11/8/2015 12:	21 RLD	EPA 8260C
n-Butylbenzene	<1.0	ug/L	1.0	3.4	20			11/8/2015 12:	21 RLD	EPA 8260C
n-Propylbenzene	<1.0	ug/L	1.0	3.2	20			11/8/2015 12:	21 RLD	EPA 8260C
Naphthalene	<1.0	ug/L	1.0	3.6	20			11/8/2015 12:	21 RLD	EPA 8260C
o-Xylene	<1.0	ug/L	1.0	3.2	20			11/8/2015 12:	21 RLD	EPA 8260C
p-Isopropyltoluene	<1.2	ug/L	1.2	4.2	20			11/8/2015 12:	21 RLD	EPA 8260C
sec-Butylbenzene	<1.0	ug/L	1.0	3.6	20			11/8/2015 12:	21 RLD	EPA 8260C
Styrene	<1.0	ug/L	1.0	3.0	20			11/8/2015 12:	21 RLD	EPA 8260C
tert-Butylbenzene	<1.2	ug/L	1.2	3.8	20			11/8/2015 12:	21 RLD	EPA 8260C
Tetrachloroethene	<1.2	ug/L	1.2	4.0	20			11/8/2015 12:	21 RLD	EPA 8260C
Tetrahydrofuran	<12	ug/L	12	42	20			11/8/2015 12:	21 RLD	EPA 8260C
Toluene	<1.2	ug/L	1.2	4.2	20			11/8/2015 12:	21 RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.2	ug/L	1.2	4.0	20			11/8/2015 12:	21 RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.96	20			11/8/2015 12:	21 RLD	EPA 8260C
Trichloroethene	430	ug/L	1.5	5.0	50			11/7/2015 02:	40 RLD	EPA 8260C
Trichlorofluoromethane	<1.0	ug/L	1.0	3.6	20			11/8/2015 12:	21 RLD	EPA 8260C
Vinyl acetate	<10	ug/L	10	32	20			11/8/2015 12:	21 RLD	EPA 8260C
Vinyl chloride	0.74	ug/L	0.32 *	1.0	20			11/8/2015 12:	21 RLD	EPA 8260C
CT LAB Sample#: 653989 Samp	ole Description: MW-1	03D DUP					License/W	/ell #: 4189/040	Sampled	11/4/2015 1020
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

Metals Results

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'										
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time		Method
Dissolved Iron	0.0419	mg/L	0.010	0.032	1			11/13/2015 18	:47 NAH	H EPA 6010C
Dissolved Manganese	282	ug/L	1.6	5.3	1			11/13/2015 18	:47 NAH	H EPA 6010C
CT LAB Sample#: 653992 Sample	e Description: MW-1	03S					License/V	Vell #: 4189/039	Sample	d: 11/4/2015 1100
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time		Method
Field Results										
Conductivity (Field)	896	umhos/cm	N/A	N/A	1			12/4/2015 12	::30 PMI	-
Dissolved Oxygen (Field)	0.65	mg/L	N/A	N/A	1			12/4/2015 12	:30 PMI	-
pH (Field)	7.04	S.U.	N/A	N/A	1			12/4/2015 12	::30 PMI	-
Temperature (Field)	18.20	Deg. C	N/A	N/A	1			12/4/2015 12	:30 PMI	-
Depth to Groundwater (Field)	6.62	Feet	N/A	N/A	1			12/4/2015 12	:30 PMI	-
Groundwater Elevation (Field)	845.22	Feet MSL	N/A	N/A	1			12/4/2015 12	::30 PMI	-
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12	:30 PMI	_
OX/REDOX (Field)	134	MV	N/A	N/A	1			12/4/2015 12	::30 PMI	-
Inorganic Results										
Alkalinity Total	550	mg/L	5.0	18	1			11/9/2015 14	:23 MEI	R EPA 310.2
Total Chloride	89	mg/L	1.0	3.5	1			11/6/2015 11	:05 JJF	EPA 9056A
Total Sulfate	88	mg/L	1.0	3.4	1			11/6/2015 11	:05 JJF	EPA 9056A
Total Organic Carbon	6.9	mg/L	0.40	1.4	1			11/7/2015 01	:52 JJF	EPA 9060A
Metals Results										
Total Iron	0.0491	mg/L	0.020 *	0.065	1		11/16/2015 12:00	11/17/2015 17	:51 NAH	H EPA 6010C
Total Manganese	449	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 17	:51 NAH	H EPA 6010C

Organic Results

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CT LAB Sample#: 653992 Sample Description: MW-103S License/Well #: 4189/039 Sampled: 11/4/2015 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 10:27	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 10:27	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 10:27	BMS	Mod RSK 175
Methane	11	ug/L	0.40	1.4	1		11/11/2015 07:30	11/11/2015 10:27	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50	1.8	10			11/7/2015 03:09	RLD	EPA 8260C
1,1,1-Trichloroethane	39	ug/L	0.60	2.1	10			11/7/2015 03:09	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.65	10			11/7/2015 03:09	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.50	ug/L	0.50	1.7	10			11/7/2015 03:09	RLD	EPA 8260C
1,1-Dichloroethane	12	ug/L	0.60	1.9	10			11/7/2015 03:09	RLD	EPA 8260C
1,1-Dichloroethene	5.1	ug/L	0.70	2.3	10			11/7/2015 03:09	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.60	1.9	10			11/7/2015 03:09	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	10			11/7/2015 03:09	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.3	10			11/7/2015 03:09	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	10			11/7/2015 03:09	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50	1.7	10			11/7/2015 03:09	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.30	ug/L	0.30	1.0	10			11/7/2015 03:09	RLD	EPA 8260C
1,2-Dibromoethane	<0.40	ug/L	0.40	1.4	10			11/7/2015 03:09	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	10			11/7/2015 03:09	RLD	EPA 8260C
1,2-Dichloroethane	1.2	ug/L	0.40 *	1.4	10			11/7/2015 03:09	RLD	EPA 8260C
1,2-Dichloropropane	<0.60	ug/L	0.60	2.0	10			11/7/2015 03:09	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.60	ug/L	0.60	2.0	10			11/7/2015 03:09	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.60	2.1	10			11/7/2015 03:09	RLD	EPA 8260C
1,3-Dichloropropane	<0.40	ug/L	0.40	1.3	10			11/7/2015 03:09	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.50	ug/L	0.50	1.6	10			11/7/2015 03:09	RLD	EPA 8260C
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	10			11/7/2015 03:09	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
2-Butanone	<8.0	ug/L	8.0	28	10			11/7/2015 03:09	RLD	EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.60	1.9	10			11/7/2015 03:09	RLD	EPA 8260C
2-Hexanone	<4.0	ug/L	4.0	14	10			11/7/2015 03:09	RLD	EPA 8260C
4-Chlorotoluene	<0.50	ug/L	0.50	1.8	10			11/7/2015 03:09	RLD	EPA 8260C
4-Methyl-2-pentanone	<4.0	ug/L	4.0	14	10			11/7/2015 03:09	RLD	EPA 8260C
Acetone	<9.0	ug/L	9.0	31	10			11/7/2015 03:09	RLD	EPA 8260C
Benzene	<0.60	ug/L	0.60	1.8	10			11/7/2015 03:09	RLD	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.4	10			11/7/2015 03:09	RLD	EPA 8260C
Bromochloromethane	<0.17	ug/L	0.17	0.58	10			11/7/2015 03:09	RLD	EPA 8260C
Bromodichloromethane	<0.17	ug/L	0.17	0.58	10			11/7/2015 03:09	RLD	EPA 8260C
Bromoform	<0.18	ug/L	0.18	0.60	10			11/7/2015 03:09	RLD	EPA 8260C
Bromomethane	<0.90	ug/L	0.90	2.9	10			11/7/2015 03:09	RLD	EPA 8260C
Carbon disulfide	<1.1	ug/L	1.1	3.8	10			11/7/2015 03:09	RLD	EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.60	2.0	10			11/7/2015 03:09	RLD	EPA 8260C
Chlorobenzene	2.1	ug/L	0.40	1.4	10			11/7/2015 03:09	RLD	EPA 8260C
Chloroethane	0.72	ug/L	0.60 *	2.1	10			11/7/2015 03:09	RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.60	2.0	10			11/7/2015 03:09	RLD	EPA 8260C
Chloromethane	<0.50	ug/L	0.50	1.8	10			11/7/2015 03:09	RLD	EPA 8260C
cis-1,2-Dichloroethene	54	ug/L	0.60	2.1	10			11/7/2015 03:09	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.15	ug/L	0.15	0.49	10			11/7/2015 03:09	RLD	EPA 8260C
Dibromochloromethane	<0.16	ug/L	0.16	0.54	10			11/7/2015 03:09	RLD	EPA 8260C
Dibromomethane	<0.60	ug/L	0.60	1.9	10			11/7/2015 03:09	RLD	EPA 8260C
Dichlorodifluoromethane	<0.60	ug/L	0.60	1.9	10			11/7/2015 03:09	RLD	EPA 8260C
Diisopropyl ether	<0.40	ug/L	0.40	1.5	10			11/7/2015 03:09	RLD	EPA 8260C
Ethylbenzene	<0.60	ug/L	0.60	2.1	10			11/7/2015 03:09	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Hexachlorobutadiene	<0.70	ug/L	0.70	2.4	10			11/7/2015 03:09 RLD	EPA 8260C
sopropylbenzene	<0.50	ug/L	0.50	1.7	10			11/7/2015 03:09 RLD	EPA 8260C
m & p-Xylene	<1.2	ug/L	1.2	4.0	10			11/7/2015 03:09 RLD	EPA 8260C
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.5	10			11/7/2015 03:09 RLD	EPA 8260C
Methylene chloride	<0.60	ug/L	0.60	2.1	10			11/7/2015 03:09 RLD	EPA 8260C
n-Butylbenzene	<0.50	ug/L	0.50	1.7	10			11/7/2015 03:09 RLD	EPA 8260C
n-Propylbenzene	<0.50	ug/L	0.50	1.6	10			11/7/2015 03:09 RLD	EPA 8260C
Naphthalene	<0.50	ug/L	0.50	1.8	10			11/7/2015 03:09 RLD	EPA 8260C
-Xylene	<0.50	ug/L	0.50	1.6	10			11/7/2015 03:09 RLD	EPA 8260C
-Isopropyltoluene	<0.60	ug/L	0.60	2.1	10			11/7/2015 03:09 RLD	EPA 8260C
ec-Butylbenzene	<0.50	ug/L	0.50	1.8	10			11/7/2015 03:09 RLD	EPA 8260C
Styrene	<0.50	ug/L	0.50	1.5	10			11/7/2015 03:09 RLD	EPA 8260C
ert-Butylbenzene	<0.60	ug/L	0.60	1.9	10			11/7/2015 03:09 RLD	EPA 8260C
etrachloroethene	11	ug/L	0.60	2.0	10			11/7/2015 03:09 RLD	EPA 8260C
etrahydrofuran	<6.0	ug/L	6.0	21	10			11/7/2015 03:09 RLD	EPA 8260C
oluene	<0.60	ug/L	0.60	2.1	10			11/7/2015 03:09 RLD	EPA 8260C
rans-1,2-Dichloroethene	2.0	ug/L	0.60	2.0	10			11/7/2015 03:09 RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.14	ug/L	0.14	0.48	10			11/7/2015 03:09 RLD	EPA 8260C
richloroethene	130	ug/L	0.30	1.0	10			11/7/2015 03:09 RLD	EPA 8260C
richlorofluoromethane	<0.50	ug/L	0.50	1.8	10			11/7/2015 03:09 RLD	EPA 8260C
'inyl acetate	<5.0	ug/L	5.0	16	10			11/7/2015 03:09 RLD	EPA 8260C
'inyl chloride	1.5	ug/L	0.16	0.52	10			11/7/2015 03:09 RLD	EPA 8260C

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CT LAB Sample#: 653995	Sample Description: MW-103S	License/Well #: 4189/039	Sampled: 11/4/2015 1100
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	0.0222	mg/L	0.010 *	0.032	1			11/13/2015 18	:52 NAH	EPA 6010C
Dissolved Manganese	311	ug/L	1.6	5.3	1			11/13/2015 18	:52 NAH	EPA 6010C
CT LAB Sample#: 653997 Sample	e Description: OW-0	06					License/V	Vell #: 4189/049	Sampled	l: 11/4/2015 1205
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time		Method
Field Results										
Conductivity (Field)	485	umhos/cm	N/A	N/A	1			12/4/2015 12	:30 PML	
Dissolved Oxygen (Field)	0.24	mg/L	N/A	N/A	1			12/4/2015 12	:30 PML	
pH (Field)	9.51	S.U.	N/A	N/A	1			12/4/2015 12	:30 PML	
Temperature (Field)	18.83	Deg. C	N/A	N/A	1			12/4/2015 12	:30 PML	
Depth to Groundwater (Field)	6.69	Feet	N/A	N/A	1			12/4/2015 12	:30 PML	
Groundwater Elevation (Field)	845.30	Feet MSL	N/A	N/A	1			12/4/2015 12	:30 PML	
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12	:30 PML	
OX/REDOX (Field)	-150	MV	N/A	N/A	1			12/4/2015 12	:30 PML	
Inorganic Results										
Alkalinity Total	190	mg/L	5.0	18	1			11/9/2015 14	:24 MER	EPA 310.2
Total Chloride	120	mg/L	2.4	8.4	2			11/9/2015 11	:43 JJF	EPA 9056A
Total Sulfate	8.2	mg/L	1.0	3.4	1			11/7/2015 01	:57 JJF	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.4	1			11/7/2015 02	:05 JJF	EPA 9060A
Metals Results										
Total Iron	0.130	mg/L	0.020	0.065	1		11/16/2015 12:00	11/17/2015 17	:56 NAH	EPA 6010C
Total Manganese	9.9	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 17	:56 NAH	EPA 6010C

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CT LAB Sample#: 653997 Sample Description: OW-06 License/Well #: 4189/049 Sampled: 11/4/20
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Analyte ————————————————————————————————————	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 15:22	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 15:22	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 15:22	BMS	Mod RSK 175
Methane	36	ug/L	2.0	7.0	5		11/11/2015 07:30	11/11/2015 15:30	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 11:27	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:27	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 11:27	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 11:27	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:27	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/7/2015 11:27	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:27	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 11:27	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 11:27	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 11:27	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 11:27	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/7/2015 11:27	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 11:27	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:27	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 11:27	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/7/2015 11:27	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 11:27	RLD	EPA 8260C
1,3-Dichlorobenzene	0.075	ug/L	0.060 *	0.21	1			11/7/2015 11:27	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 11:27	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 11:27	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 11:27	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 11:27	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:27	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 11:27	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 11:27	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 11:27	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 11:27	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 11:27	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 11:27	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 11:27	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 11:27	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 11:27	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 11:27	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 11:27	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 11:27	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 11:27	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:27	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 11:27	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 11:27	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:27	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 11:27	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 11:27	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:27	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:27	RLD	EPA 8260C

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CT LAB Sample#: 653997 Sample Description: OW-06 License/Well #: 4189/049 Sampled: 11/4/2015 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	lyst	Method
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 11:27	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:27	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 11:27	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 11:27	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 11:27	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 11:27	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:27	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 11:27	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 11:27	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 11:27	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/7/2015 11:27	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:27	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/7/2015 11:27	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/7/2015 11:27	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:27	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 11:27	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 11:27	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:27	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 11:27	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/7/2015 11:27	RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			11/7/2015 11:27	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 11:27	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/7/2015 11:27	RLD	EPA 8260C
Vinyl chloride	< 0.016	ug/L	0.016	0.052	1			11/7/2015 11:27	RLD	EPA 8260C

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CT LAB Sample#: 653998 Sample	e Description: OW-0	06					License/V	Vell #: 4189/049	Sampled	l: 11/4/2015 120
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time		Method
Metals Results										
Dissolved Iron	0.0923	mg/L	0.010	0.032	1			11/13/2015 18	:58 NAH	EPA 6010C
Dissolved Manganese	6.3	ug/L	1.6	5.3	1			11/13/2015 18	:58 NAH	EPA 6010C
CT LAB Sample#: 653999 Sample	Description: MW-2	2D					License/V	Vell #: 4189/004	Sampled	l: 11/4/2015 133
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time		Method
Field Results										
Conductivity (Field)	782	umhos/cm	N/A	N/A	1			12/4/2015 12	::30 PML	
Dissolved Oxygen (Field)	0.46	mg/L	N/A	N/A	1			12/4/2015 12	::30 PML	
pH (Field)	7.80	S.U.	N/A	N/A	1			12/4/2015 12	:30 PML	
Temperature (Field)	21.16	Deg. C	N/A	N/A	1			12/4/2015 12	:30 PML	
Depth to Groundwater (Field)	6.02	Feet	N/A	N/A	1			12/4/2015 12	:30 PML	
Groundwater Elevation (Field)	846.34	Feet MSL	N/A	N/A	1			12/4/2015 12	:30 PML	
Furbidity (Field)	2.8		N/A	N/A	1			12/4/2015 12	:30 PML	
DX/REDOX (Field)	-111	MV	N/A	N/A	1			12/4/2015 12	::30 PML	
norganic Results										
Alkalinity Total	380	mg/L	5.0	18	1			11/9/2015 14	:25 MER	EPA 310.2
Total Chloride	180	mg/L	3.0	11	3			11/10/2015 11	:24 JJF	EPA 9056A
Total Sulfate	40	mg/L	3.0	10	3			11/10/2015 11	:24 JJF	EPA 9056A
otal Organic Carbon	1.1	mg/L	0.40 *	1.4	1			11/7/2015 02	::16 JJF	EPA 9060A
Metals Results										
Total Iron	2.60	mg/L	0.020	0.065	1		11/16/2015 12:00	11/17/2015 18	:17 NAH	EPA 6010C
Total Manganese	28.2	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 18	:17 NAH	EPA 6010C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 10:37	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 10:37	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 10:37	BMS	Mod RSK 175
Methane	120	ug/L	4.0	14	10		11/11/2015 07:30	11/11/2015 10:46	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 11:56	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:56	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 11:56	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 11:56	RLD	EPA 8260C
1,1-Dichloroethane	0.22	ug/L	0.060	0.19	1			11/7/2015 11:56	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/7/2015 11:56	RLD	EPA 8260C
,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:56	RLD	EPA 8260C
,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 11:56	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 11:56	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 11:56	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 11:56	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/7/2015 11:56	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 11:56	RLD	EPA 8260C
,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:56	RLD	EPA 8260C
,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 11:56	RLD	EPA 8260C
,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/7/2015 11:56	RLD	EPA 8260C
3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 11:56	RLD	EPA 8260C
3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:56	RLD	EPA 8260C
,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 11:56	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 11:56 RLD I	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 11:56 RLD I	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 11:56 RLD I	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:56 RLD I	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 11:56 RLD I	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 11:56 RLD I	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 11:56 RLD I	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 11:56 RLD I	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 11:56 RLD I	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 11:56 RLD I	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 11:56 RLD I	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 11:56 RLD I	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 11:56 RLD I	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 11:56 RLD I	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 11:56 RLD I	EPA 8260C
Carbon tetrachloride	< 0.060	ug/L	0.060	0.20	1			11/7/2015 11:56 RLD I	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 11:56 RLD I	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:56 RLD I	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 11:56 RLD I	EPA 8260C
Chloromethane	< 0.050	ug/L	0.050	0.18	1			11/7/2015 11:56 RLD I	EPA 8260C
cis-1,2-Dichloroethene	0.44	ug/L	0.060	0.21	1			11/7/2015 11:56 RLD I	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 11:56 RLD I	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 11:56 RLD I	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:56 RLD I	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:56 RLD I	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 11:56	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:56	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 11:56	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 11:56	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 11:56	RLD	EPA 8260C
Methyl tert-butyl ether	0.084	ug/L	0.040 *	0.15	1			11/7/2015 11:56	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:56	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 11:56	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 11:56	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 11:56	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/7/2015 11:56	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:56	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/7/2015 11:56	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/7/2015 11:56	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 11:56	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 11:56	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 11:56	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 11:56	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.15	ug/L	0.060 *	0.20	1			11/7/2015 11:56	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/7/2015 11:56	RLD	EPA 8260C
Trichloroethene	0.050	ug/L	0.030 *	0.10	1			11/7/2015 11:56	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 11:56	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/7/2015 11:56	RLD	EPA 8260C
Vinyl chloride	0.11	ug/L	0.016	0.052	1			11/7/2015 11:56	RLD	EPA 8260C

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CT LAB Sample#: 654000 Sample Description: MW-2D License/Well #: 4189/004 Sampled: 11/4/2015	15 1330
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CT LAB Sample#. 634000 Sample	Description. WW 2	ل .					LICCHSC/V	veii #. 4169/004 \	Jampica	. 11/4/2015 1550
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis <i>A</i> Date/Time	nalyst	Method
Metals Results										
Dissolved Iron	2.52	mg/L	0.010	0.032	1			11/13/2015 19:03	NAH	EPA 6010C
Dissolved Manganese	22.8	ug/L	1.6	5.3	1			11/13/2015 19:03	NAH	EPA 6010C
CT LAB Sample#: 654001 Sample	Description: MW-3	BD					License/V	Vell #: 4189/006	Sampled	: 11/4/2015 1410
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Field Results										
Conductivity (Field)	861	umhos/cm	N/A	N/A	1			12/4/2015 12:30	PML	
Dissolved Oxygen (Field)	0.19	mg/L	N/A	N/A	1			12/4/2015 12:30	PML	
pH (Field)	7.62	S.U.	N/A	N/A	1			12/4/2015 12:30	PML	
Temperature (Field)	13.78	Deg. C	N/A	N/A	1			12/4/2015 12:30	PML	
Depth to Groundwater (Field)	8.12	Feet	N/A	N/A	1			12/4/2015 12:30	PML	
Groundwater Elevation (Field)	845.39	Feet MSL	N/A	N/A	1			12/4/2015 12:30	PML	
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12:30	PML	
OX/REDOX (Field)	-101	MV	N/A	N/A	1			12/4/2015 12:30	PML	
Inorganic Results										
Alkalinity Total	360	mg/L	5.0	18	1			11/9/2015 14:27	MER	EPA 310.2
Total Chloride	190	mg/L	3.0	11	3			11/7/2015 02:18	JJF	EPA 9056A
Total Sulfate	41	mg/L	3.0	10	3			11/7/2015 02:18	JJF	EPA 9056A
Total Organic Carbon	0.63	mg/L	0.40 *	1.4	1			11/7/2015 02:29	JJF	EPA 9060A
Metals Results										
Total Iron	0.712	mg/L	0.020	0.065	1		11/16/2015 12:00	11/17/2015 18:23	NAH	EPA 6010C
Total Manganese	40.3	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 18:23	NAH	EPA 6010C

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CT LAB Sample#: 654001	Sample Description: MW-3D	License/Well #: 4189/006	Sampled: 11/4/2015 1410

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 10:55	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 10:55	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 10:55	BMS	Mod RSK 175
Methane	27	ug/L	0.80	2.8	2		11/11/2015 07:30	11/11/2015 11:04	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 12:24	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:24	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 12:24	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 12:24	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:24	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/7/2015 12:24	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:24	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 12:24	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 12:24	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 12:24	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 12:24	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/7/2015 12:24	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 12:24	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:24	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 12:24	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/7/2015 12:24	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 12:24	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:24	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 12:24	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analysi Date/Time	Method
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 12:24 RLE	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 12:24 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 12:24 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:24 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 12:24 RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 12:24 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 12:24 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 12:24 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 12:24 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 12:24 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 12:24 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 12:24 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 12:24 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 12:24 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 12:24 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 12:24 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 12:24 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:24 RLE	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 12:24 RLD	EPA 8260C
Chloromethane	0.072	ug/L	0.050 *	0.18	1	В		11/7/2015 12:24 RLE	EPA 8260C
cis-1,2-Dichloroethene	0.18	ug/L	0.060 *	0.21	1			11/7/2015 12:24 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 12:24 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 12:24 RLE	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:24 RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:24 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	alyst	Method
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 12:24	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:24	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 12:24	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 12:24	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 12:24	RLD	EPA 8260C
Methyl tert-butyl ether	0.35	ug/L	0.040	0.15	1			11/7/2015 12:24	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:24	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 12:24	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 12:24	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 12:24	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/7/2015 12:24	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:24	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/7/2015 12:24	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/7/2015 12:24	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 12:24	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 12:24	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 12:24	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 12:24	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 12:24	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/7/2015 12:24	RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			11/7/2015 12:24	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 12:24	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/7/2015 12:24	RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/7/2015 12:24	RLD	EPA 8260C

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CT LAB Sample#: 654002	Sample Description: MW-3D						License/Well #:	4189/006	Sampled:	11/4/2015 1410	
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method	

Analyte	Result	Offics	LOD	LOQ	Dilution	Qualifici	Date/Time	Date/Time	Allalyst	Metriod
Metals Results										
Dissolved Iron	0.805	mg/L	0.010	0.032	1			11/13/2015 19:0	9 NAH	EPA 6010C
Dissolved Manganese	36.4	ug/L	1.6	5.3	1			11/13/2015 19:0	9 NAH	EPA 6010C

CT LAB Sample#: 654003 Sample Description: MW-14DR	License/Well #: 4189/050	Sampled: 11/4/2015 1455
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Tim	•	t Method
Field Results										
Conductivity (Field)	887	umhos/cm	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Dissolved Oxygen (Field)	0.22	mg/L	N/A	N/A	1			12/4/2015 1	2:30 PM	L
pH (Field)	7.34	S.U.	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Temperature (Field)	14.02	Deg. C	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Depth to Groundwater (Field)	5.23	Feet	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Groundwater Elevation (Field)	845.77	Feet MSL	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 1	2:30 PM	L
OX/REDOX (Field)	-24	MV	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Inorganic Results										
Alkalinity Total	340	mg/L	5.0	18	1			11/9/2015 1	1:28 ME	R EPA 310.2
Total Chloride	190	mg/L	2.0	7.0	2			11/7/2015 0	2:39 JJF	EPA 9056A
Total Sulfate	41	mg/L	2.0	6.8	2			11/7/2015 0	2:39 JJF	EPA 9056A
Total Organic Carbon	1.4	mg/L	0.40	1.4	1			11/7/2015 0	2:42 JJF	EPA 9060A
Metals Results										
Total Iron	0.196	mg/L	0.020	0.065	1		11/16/2015 12:00	11/17/2015 1	3:28 NA	H EPA 6010C
Total Manganese	310	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 1	3:28 NA	H EPA 6010C

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Analyte ————————————————————————————————————	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 11:14	BMS	Mod RSK 175
Ethane	< 0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 11:14	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 11:14	BMS	Mod RSK 175
Methane	0.44	ug/L	0.40 *	1.4	1		11/11/2015 07:30	11/11/2015 11:14	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 13:22	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:22	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 13:22	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 13:22	RLD	EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			11/7/2015 13:22	RLD	EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			11/7/2015 13:22	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:22	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 13:22	RLD	EPA 8260C
1,2,3-Trichloropropane	< 0.040	ug/L	0.040	0.13	1			11/7/2015 13:22	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 13:22	RLD	EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/7/2015 13:22	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/7/2015 13:22	RLD	EPA 8260C
1,2-Dibromoethane	< 0.040	ug/L	0.040	0.14	1			11/7/2015 13:22	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:22	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 13:22	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:22	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:22	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:22	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 13:22	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 13:22	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 13:22	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 13:22	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:22	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 13:22	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 13:22	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 13:22	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 13:22	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 13:22	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 13:22	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 13:22	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 13:22	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 13:22	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 13:22	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 13:22	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:22	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 13:22	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:22	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:22	RLD	EPA 8260C
Chloromethane	< 0.050	ug/L	0.050	0.18	1			11/7/2015 13:22	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:22	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 13:22	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 13:22	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:22	RLD	EPA 8260C
Dichlorodifluoromethane	< 0.060	ug/L	0.060	0.19	1			11/7/2015 13:22	RLD	EPA 8260C

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Project Name: OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 13:22	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:22	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 13:22	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 13:22	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 13:22	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 13:22	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:22	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 13:22	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 13:22	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 13:22	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/7/2015 13:22	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:22	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/7/2015 13:22	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/7/2015 13:22	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:22	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:22	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 13:22	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:22	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:22	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/7/2015 13:22	RLD	EPA 8260C
Trichloroethene	0.20	ug/L	0.030	0.10	1			11/7/2015 13:22	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 13:22	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/7/2015 13:22	RLD	EPA 8260C
Vinyl chloride	< 0.016	ug/L	0.016	0.052	1			11/7/2015 13:22	RLD	EPA 8260C

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CT LAB Sample#: 654004 Sample Description: MW-14DR License/Well #: 4189/050 Sampled: 11/4/2015	1/2015 1455
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	0.135	mg/L	0.010	0.032	1			11/13/2015 19:	14 NAH	EPA 6010C
Dissolved Manganese	200	ug/L	1.6	5.3	1			11/13/2015 19:	14 NAH	EPA 6010C
CT LAB Sample#: 654005 Sample	Description: MW-4	ss					License/V	Vell #: 4189/007	Sampled	: 11/4/2015 1530
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Conductivity (Field)	1920	umhos/cm	N/A	N/A	1			12/4/2015 12:	30 PML	
Dissolved Oxygen (Field)	0.46	mg/L	N/A	N/A	1			12/4/2015 12:	30 PML	
pH (Field)	7.13	S.U.	N/A	N/A	1			12/4/2015 12:	30 PML	
Temperature (Field)	18.02	Deg. C	N/A	N/A	1			12/4/2015 12:3	30 PML	
Depth to Groundwater (Field)	8.28	Feet	N/A	N/A	1			12/4/2015 12:	30 PML	
Groundwater Elevation (Field)	846.30	Feet MSL	N/A	N/A	1			12/4/2015 12:	30 PML	
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12:	30 PML	
OX/REDOX (Field)	79	MV	N/A	N/A	1			12/4/2015 12:	30 PML	
Inorganic Results										
Alkalinity Total	580	mg/L	5.0	18	1			11/9/2015 14::	29 MER	EPA 310.2
Total Chloride	400	mg/L	5.0	18	5			11/9/2015 13:0	00 JJF	EPA 9056A
Total Sulfate	97	mg/L	5.0	17	5			11/9/2015 13:0	00 JJF	EPA 9056A
Total Organic Carbon	3.6	mg/L	0.40	1.4	1			11/7/2015 03:	32 JJF	EPA 9060A
Metals Results										
Total Iron	0.361	mg/L	0.020	0.065	1		11/16/2015 12:00	11/17/2015 18:	34 NAH	EPA 6010C
Total Manganese	73.5	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 18:	34 NAH	EPA 6010C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 12:22	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 12:22	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 12:22	BMS	Mod RSK 175
Methane	0.53	ug/L	0.40 *	1.4	1		11/11/2015 07:30	11/11/2015 12:22	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 12:11	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:11	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/6/2015 12:11	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/6/2015 12:11	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:11	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/6/2015 12:11	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:11	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 12:11	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 12:11	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/6/2015 12:11	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 12:11	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/6/2015 12:11	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 12:11	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:11	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 12:11	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/6/2015 12:11	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/6/2015 12:11	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:11	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 12:11	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 12:11 RLD EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/6/2015 12:11 RLD EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/6/2015 12:11 RLD EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:11 RLD EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 12:11 RLD EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/6/2015 12:11 RLD EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 12:11 RLD EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/6/2015 12:11 RLD EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/6/2015 12:11 RLD EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 12:11 RLD EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 12:11 RLD EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 12:11 RLD EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/6/2015 12:11 RLD EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/6/2015 12:11 RLD EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/6/2015 12:11 RLD EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/6/2015 12:11 RLD EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 12:11 RLD EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:11 RLD EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/6/2015 12:11 RLD EPA 8260C
Chloromethane	0.058	ug/L	0.050 *	0.18	1			11/6/2015 12:11 RLD EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:11 RLD EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/6/2015 12:11 RLD EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/6/2015 12:11 RLD EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:11 RLD EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:11 RLD EPA 8260C
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 12:11	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:11	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/6/2015 12:11	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 12:11	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/6/2015 12:11	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 12:11	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:11	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 12:11	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 12:11	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/6/2015 12:11	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/6/2015 12:11	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:11	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/6/2015 12:11	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/6/2015 12:11	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:11	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 12:11	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/6/2015 12:11	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:11	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 12:11	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/6/2015 12:11	RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			11/6/2015 12:11	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 12:11	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/6/2015 12:11	RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/6/2015 12:11	RLD	EPA 8260C

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11/17/2015 18:40 NAH EPA 6010C

11/17/2015 18:40 NAH EPA 6010C

11/16/2015 12:00

11/16/2015 12:00

					511.41	0 110				
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	0.0178	mg/L	0.010 *	0.032	1			11/13/2015 19	20 NAH	EPA 6010C
Dissolved Manganese	58.3	ug/L	1.6	5.3	1			11/13/2015 19	20 NAH	EPA 6010C
CT LAB Sample#: 654007 Sample	Description: MW-1	01B					License/	Well #: 4189/036	Sampled	: 11/4/2015 161
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Conductivity (Field)	862	umhos/cm	N/A	N/A	1			12/4/2015 12	30 PML	
Dissolved Oxygen (Field)	0.19	mg/L	N/A	N/A	1			12/4/2015 12	30 PML	
oH (Field)	7.49	S.U.	N/A	N/A	1			12/4/2015 12	30 PML	
Temperature (Field)	15.41	Deg. C	N/A	N/A	1			12/4/2015 12	30 PML	
Depth to Groundwater (Field)	5.52	Feet	N/A	N/A	1			12/4/2015 12	30 PML	
Groundwater Elevation (Field)	845.56	Feet MSL	N/A	N/A	1			12/4/2015 12	30 PML	
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12	30 PML	
OX/REDOX (Field)	30	MV	N/A	N/A	1			12/4/2015 12	30 PML	
norganic Results										
Alkalinity Total	350	mg/L	5.0	18	1			11/9/2015 14	33 MER	EPA 310.2
Total Chloride	180	mg/L	3.0	11	3			11/7/2015 03	41 JJF	EPA 9056A
Total Sulfate	49	mg/L	3.0	10	3			11/7/2015 03	41 JJF	EPA 9056A
Total Organic Carbon	< 0.40	mg/L	0.40	1.4	1			11/7/2015 03	44 JJF	EPA 9060A

0.065

4.7

1

0.020 *

1.4

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

mg/L

ug/L

0.0523

128

Total Iron

Total Manganese

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 15:40	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 15:40	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 15:40	BMS	Mod RSK 175
Methane	67	ug/L	2.0	7.0	5		11/11/2015 07:30	11/11/2015 15:49	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 11:34	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 11:34	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/6/2015 11:34	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/6/2015 11:34	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 11:34	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/6/2015 11:34	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/6/2015 11:34	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 11:34	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 11:34	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/6/2015 11:34	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 11:34	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/6/2015 11:34	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 11:34	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 11:34	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 11:34	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/6/2015 11:34	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/6/2015 11:34	RLD	EPA 8260C
1,3-Dichlorobenzene	0.068	ug/L	0.060 *	0.21	1			11/6/2015 11:34	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 11:34	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 11:34 RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/6/2015 11:34 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/6/2015 11:34 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/6/2015 11:34 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 11:34 RLD	EPA 8260C
1-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			11/6/2015 11:34 RLD	EPA 8260C
1-Methyl-2-pentanone	< 0.40	ug/L	0.40	1.4	1			11/6/2015 11:34 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/6/2015 11:34 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/6/2015 11:34 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 11:34 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 11:34 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 11:34 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/6/2015 11:34 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/6/2015 11:34 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/6/2015 11:34 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/6/2015 11:34 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 11:34 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 11:34 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/6/2015 11:34 RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 11:34 RLD	EPA 8260C
cis-1,2-Dichloroethene	0.34	ug/L	0.060	0.21	1			11/6/2015 11:34 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/6/2015 11:34 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/6/2015 11:34 RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 11:34 RLD	EPA 8260C
Dichlorodifluoromethane	< 0.060	ug/L	0.060	0.19	1			11/6/2015 11:34 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Anal Date/Time	yst Method
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 11:34 F	LD EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 11:34 F	LD EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/6/2015 11:34 F	LD EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 11:34 F	LD EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/6/2015 11:34 F	LD EPA 8260C
Methyl tert-butyl ether	0.29	ug/L	0.040	0.15	1			11/6/2015 11:34 F	LD EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/6/2015 11:34 F	LD EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 11:34 F	LD EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 11:34 F	LD EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/6/2015 11:34 F	LD EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/6/2015 11:34 F	LD EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 11:34 F	LD EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/6/2015 11:34 F	LD EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/6/2015 11:34 F	LD EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 11:34 F	LD EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 11:34 F	LD EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/6/2015 11:34 F	LD EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 11:34 F	LD EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 11:34 F	LD EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/6/2015 11:34 F	LD EPA 8260C
Trichloroethene	0.030	ug/L	0.030 *	0.10	1			11/6/2015 11:34 F	LD EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 11:34 F	LD EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/6/2015 11:34 F	LD EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/6/2015 11:34 F	LD EPA 8260C

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CT LAB Sample#: 654008	Sample Description: MW-101B	License/Well #: 4189/036	Sampled: 11/4/2015 1610
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep	Analysis	Analyst	Method
							Date/Time	Date/Time		
Metals Results										
Dissolved Iron	0.0229	mg/L	0.010 *	0.032	1			11/13/2015 19:	26 NAH	EPA 6010C
Dissolved Manganese	115	ug/L	1.6	5.3	1			11/13/2015 19:	26 NAH	EPA 6010C
CT LAB Sample#: 654009 Sample	e Description: MW-1	101S					License/V	Vell #: 4189/035	Sampled	: 11/4/2015 1645
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Conductivity (Field)	2330	umhos/cm	N/A	N/A	1			12/4/2015 12:	30 PML	
Dissolved Oxygen (Field)	6.53	mg/L	N/A	N/A	1			12/4/2015 12:	30 PML	
pH (Field)	7.18	S.U.	N/A	N/A	1			12/4/2015 12:	30 PML	
Temperature (Field)	16.49	Deg. C	N/A	N/A	1			12/4/2015 12:	30 PML	
Depth to Groundwater (Field)	5.32	Feet	N/A	N/A	1			12/4/2015 12:	30 PML	
Groundwater Elevation (Field)	845.92	Feet MSL	N/A	N/A	1			12/4/2015 12:	30 PML	
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12:	30 PML	
OX/REDOX (Field)	105	MV	N/A	N/A	1			12/4/2015 12:	30 PML	
Inorganic Results										
Alkalinity Total	420	mg/L	5.0	18	1			11/9/2015 14:	34 MER	EPA 310.2
Total Chloride	420	mg/L	9.1	32	9			11/9/2015 12:	18 JJF	EPA 9056A
Total Sulfate	29	mg/L	1.0	3.4	1			11/7/2015 04:	02 JJF	EPA 9056A
Total Organic Carbon	5.6	mg/L	0.40	1.4	1			11/7/2015 04:	29 JJF	EPA 9060A
Metals Results										
Total Iron	0.0383	mg/L	0.020 *	0.065	1		11/16/2015 12:00	11/17/2015 18:	45 NAH	EPA 6010C
Total Manganese	157	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 18:	45 NAH	EPA 6010C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 12:3	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 12:3	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 12:3	BMS	Mod RSK 175
Methane	<0.40	ug/L	0.40	1.4	1		11/11/2015 07:30	11/11/2015 12:3	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 12:40	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:40	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/6/2015 12:40	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/6/2015 12:40	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:40	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/6/2015 12:40	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:40	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 12:40	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 12:40	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/6/2015 12:40	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 12:40	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/6/2015 12:40	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 12:40	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:40	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 12:40	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/6/2015 12:40	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/6/2015 12:40	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:40	RLD	EPA 8260C
1,3-Dichloropropane	< 0.040	ug/L	0.040	0.13	1			11/6/2015 12:40	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 12:40	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/6/2015 12:40	RLD	EPA 8260C
-Butanone	<0.80	ug/L	0.80	2.8	1			11/6/2015 12:40	RLD	EPA 8260C
-Chlorotoluene	< 0.060	ug/L	0.060	0.19	1			11/6/2015 12:40	RLD	EPA 8260C
-Hexanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 12:40	RLD	EPA 8260C
-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			11/6/2015 12:40	RLD	EPA 8260C
-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 12:40	RLD	EPA 8260C
Acetone	< 0.90	ug/L	0.90	3.1	1			11/6/2015 12:40	RLD	EPA 8260C
Benzene	< 0.060	ug/L	0.060	0.18	1			11/6/2015 12:40	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 12:40	RLD	EPA 8260C
Bromochloromethane	< 0.017	ug/L	0.017	0.058	1			11/6/2015 12:40	RLD	EPA 8260C
Bromodichloromethane	< 0.017	ug/L	0.017	0.058	1			11/6/2015 12:40	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/6/2015 12:40	RLD	EPA 8260C
Bromomethane	< 0.090	ug/L	0.090	0.29	1			11/6/2015 12:40	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/6/2015 12:40	RLD	EPA 8260C
Carbon tetrachloride	< 0.060	ug/L	0.060	0.20	1			11/6/2015 12:40	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 12:40	RLD	EPA 8260C
Chloroethane	< 0.060	ug/L	0.060	0.21	1			11/6/2015 12:40	RLD	EPA 8260C
Chloroform	< 0.060	ug/L	0.060	0.20	1			11/6/2015 12:40	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 12:40	RLD	EPA 8260C
is-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:40	RLD	EPA 8260C
is-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/6/2015 12:40	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/6/2015 12:40	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:40	RLD	EPA 8260C
Dichlorodifluoromethane	< 0.060	ug/L	0.060	0.19	1			11/6/2015 12:40	RLD	EPA 8260C

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Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 12:40	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:40	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/6/2015 12:40	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 12:40	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/6/2015 12:40	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 12:40	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:40	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 12:40	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 12:40	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/6/2015 12:40	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/6/2015 12:40	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:40	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/6/2015 12:40	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/6/2015 12:40	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 12:40	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 12:40	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/6/2015 12:40	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 12:40	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 12:40	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/6/2015 12:40	RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			11/6/2015 12:40	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 12:40	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/6/2015 12:40	RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/6/2015 12:40	RLD	EPA 8260C

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Metals Results								
Dissolved Iron	<0.010	mg/L	0.010	0.032	1			11/13/2015 19:31 NAH EPA 6010C
Dissolved Manganese	4.6	ug/L	1.6 *	5.3	1			11/13/2015 19:31 NAH EPA 6010C
CT LAB Sample#: 654023 Sample	e Description: PW-0	3					License/	Well #: 4189/051 Sampled: 11/4/2015 1710
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Organic Results								
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 13:08 RLD EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 13:08 RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/6/2015 13:08 RLD EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/6/2015 13:08 RLD EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 13:08 RLD EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/6/2015 13:08 RLD EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/6/2015 13:08 RLD EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 13:08 RLD EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 13:08 RLD EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/6/2015 13:08 RLD EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 13:08 RLD EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/6/2015 13:08 RLD EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 13:08 RLD EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 13:08 RLD EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 13:08 RLD EPA 8260C
1,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			11/6/2015 13:08 RLD EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/6/2015 13:08	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 13:08	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 13:08	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 13:08	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/6/2015 13:08	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/6/2015 13:08	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/6/2015 13:08	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 13:08	RLD	EPA 8260C
4-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			11/6/2015 13:08	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 13:08	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/6/2015 13:08	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/6/2015 13:08	RLD	EPA 8260C
Bromobenzene	< 0.040	ug/L	0.040	0.14	1			11/6/2015 13:08	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 13:08	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 13:08	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/6/2015 13:08	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/6/2015 13:08	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/6/2015 13:08	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/6/2015 13:08	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 13:08	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 13:08	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/6/2015 13:08	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 13:08	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.8	ug/L	0.060	0.21	1			11/6/2015 13:08	RLD	EPA 8260C
cis-1,3-Dichloropropene	< 0.015	ug/L	0.015	0.049	1			11/6/2015 13:08	RLD	EPA 8260C

delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115214

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/6/2015 13:08 RLD E	PA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 13:08 RLD E	PA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 13:08 RLD E	PA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 13:08 RLD E	PA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 13:08 RLD E	PA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/6/2015 13:08 RLD E	PA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 13:08 RLD E	PA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/6/2015 13:08 RLD E	PA 8260C
Methyl tert-butyl ether	0.60	ug/L	0.040	0.15	1			11/6/2015 13:08 RLD E	PA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/6/2015 13:08 RLD E	PA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 13:08 RLD E	PA 8260C
n-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			11/6/2015 13:08 RLD E	PA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/6/2015 13:08 RLD E	PA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/6/2015 13:08 RLD E	PA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 13:08 RLD E	PA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/6/2015 13:08 RLD E	PA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			11/6/2015 13:08 RLD E	PA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 13:08 RLD E	PA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 13:08 RLD E	PA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/6/2015 13:08 RLD E	PA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 13:08 RLD E	PA 8260C
trans-1,2-Dichloroethene	0.088	ug/L	0.060 *	0.20	1			11/6/2015 13:08 RLD E	PA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/6/2015 13:08 RLD E	PA 8260C
Trichloroethene	0.69	ug/L	0.030	0.10	1			11/6/2015 13:08 RLD E	PA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 13:08 RLD E	PA 8260C

CT LABORATORIES

delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analys Date/Ti	sis Ana me	alyst	Method
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/6/2015	13:08	RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/6/2015	13:08	RLD	EPA 8260C

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
Organic Results									
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 10:36 RI	D EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 10:36 RI	D EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/6/2015 10:36 RI	D EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/6/2015 10:36 RI	D EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			11/6/2015 10:36 RI	D EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/6/2015 10:36 RI	D EPA 8260C
1,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			11/6/2015 10:36 RI	D EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 10:36 RI	D EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 10:36 RI	D EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/6/2015 10:36 RI	D EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/6/2015 10:36 RI	D EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/6/2015 10:36 RI	D EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 10:36 RI	D EPA 8260C
1,2-Dichlorobenzene	< 0.060	ug/L	0.060	0.19	1			11/6/2015 10:36 RI	D EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/6/2015 10:36 RI	.D EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/6/2015 10:36 RI	.D EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/6/2015 10:36 RI	.D EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LABORATORIES

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115214

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CT LAB Sample#: 654024 Sample Description: TB-2 License/Well #: 4189/999 Sampled: 11/4/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 10:36	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/6/2015 10:36	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 10:36	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/6/2015 10:36	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/6/2015 10:36	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/6/2015 10:36	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 10:36	RLD	EPA 8260C
I-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			11/6/2015 10:36	RLD	EPA 8260C
-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/6/2015 10:36	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/6/2015 10:36	RLD	EPA 8260C
enzene	<0.060	ug/L	0.060	0.18	1			11/6/2015 10:36	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 10:36	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 10:36	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/6/2015 10:36	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/6/2015 10:36	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/6/2015 10:36	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/6/2015 10:36	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/6/2015 10:36	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/6/2015 10:36	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/6/2015 10:36	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/6/2015 10:36	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 10:36	RLD	EPA 8260C
is-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/6/2015 10:36	RLD	EPA 8260C
sis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/6/2015 10:36	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/6/2015 10:36	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LABORATORIES

delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115214

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 10:36 RLD E	PA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/6/2015 10:36 RLD E	PA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 10:36 RLD E	PA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/6/2015 10:36 RLD E	PA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/6/2015 10:36 RLD E	PA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 10:36 RLD E	PA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/6/2015 10:36 RLD E	PA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/6/2015 10:36 RLD E	PA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/6/2015 10:36 RLD E	PA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/6/2015 10:36 RLD E	PA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/6/2015 10:36 RLD E	PA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/6/2015 10:36 RLD E	PA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/6/2015 10:36 RLD E	PA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 10:36 RLD E	PA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/6/2015 10:36 RLD E	PA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/6/2015 10:36 RLD E	PA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/6/2015 10:36 RLD E	PA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 10:36 RLD E	PA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/6/2015 10:36 RLD E	PA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/6/2015 10:36 RLD E	PA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/6/2015 10:36 RLD E	PA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/6/2015 10:36 RLD E	PA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			11/6/2015 10:36 RLD E	PA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/6/2015 10:36 RLD E	PA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/6/2015 10:36 RLD E	PA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LABORATORIES delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115214

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CT LAB Sample#: 654024 Sample Description: TB-2 License/Well #: 4189/999 Sampled: 11/4/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	t Method
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/6/2015 10:36 RLI	D EPA 8260C

CT LABORATORIES delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115214 Page 48 of 48

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by:

Pat M. Letterer Project Manager 608-356-2760

QC Qualifiers

В	Analyte detected in the associated Method Blank.	Kansas N
С	Toxicity present in BOD sample.	Kentucky
D	Diluted Out.	ISO/IEC -
E	Safe, No Total Coliform detected.	North Car
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	Wisconsii
Н	Holding time exceeded.	Wisconsii
ı	BOD incubator temperature was outside acceptance limits during test period.	DoD-ELA
J	Estimated value.	GA EPD
L	Significant peaks were detected outside the chromatographic window.	Louisiana
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	Virginia II
N	Insufficient BOD oxygen depletion.	Illinois NE
0	Complete BOD oxygen depletion.	
Р	Concentration of analyte differs more than 40% between primary and confirmation analysis.	Wisconsii
Q	Laboratory Control Sample outside acceptance limits.	Maryland
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
Т	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Υ	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications

Kansas NELAP ID# E-10368 Kentucky ID# 0023

ISO/IEC 17025-2005 A2LA Cert # 3806.01

North Carolina ID# 674

Wisconsin (WDNR) Chemistry ID# 157066030 Wisconsin (DATCP) Bacteriology ID# 105-289

DoD-ELAP A2LA 3806.01

GA EPD Stipulation ID E871111, Expires Annually

ouisiana ID # 115843

Virginia ID# 7608

Illinois NELAP ID # 002413

Wisconsin (WOSB) ID# WI-5499-WBE

Maryland ID# 344

Description

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Page 250					7					/			/						

CT Laboratories Terms and Conditions

Where a purchaser (Client) places on order for laboratory, consulting or sampling services from CT Laboratorios (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes on acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and on agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by CTL in advance of the start of the project and in writing.

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submiting a purchase order to CTL in witing, by telephone (confirmed in writing) or by negotiated contract. Whichever option the Client selects for placing the Order, the Order shall not be valid unless it contains sufficient specification to enable CTL to carry out the Client's requirements. It is the policy of CT Laboratories that samples not meeting the acceptance criteria, outlined in the NELAC standards and Section 5.8.3.2 of the DOD QSM, will not be acceptance by the laboratory or will be qualified on the final report. All samples submitted to the laboratory must: (1) be acceptanced by prepare full and complete documentation, including sample identification, date and time of collector's name, type of preservation, the preservation of the prepared by the laboratory or will be qualified on the chair-of-custody. In the absence of any of the required information, the laboratory will extempt to contact the client to obtain the information; if unable to obtain the necessary information, the laboratory cannot determine the identity of a sample, it will be rejected and the Client will be contacted for further instructions or resampling. (3) be in an appropriate sample container. If the container is inappropriate, the client will be contacted for further instructions or resampling. (1) and prepared containing approved containers and preservations for analytical methods requested. (4) adhere to specified holding times. If samples are received with less than X the holding time remaining for the requested test, CT Laboratories will make its bost effort to analyze the samples and notify the client. If holding times are exceeded, the final report will be rejected and the client will be contacted for further instructions or resampling. If samples can be performed, the final report will be rejected and the client will be contacted for further instructions or resampling.

1.2 CT Laboratories must be supplied with complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.

1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or tability for the action or lang carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this cord at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attermey's fees. CTL reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

- 3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or bedrincal change to the Scope of Work, and such agreement is documented in writing.
- 3.2 Changes to the Scope of Work, including but not lamited to increasing or decreasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.
- 3.3 Suspension or termination of all or any part of the work may be initiated by the Client, CTL, will be compensated consistent with Section 2 of these Torms and Conditions. CTL, will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test mothods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it. CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which doviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, CTL will proceed with analyses under its standard Quality Manuals then in effect, and CTL will not be responsible for any resumpting or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Acceptance does not occur within this period, CTL will use its best efforts to meet holding times and will proceed with the work provided that had, in CTL's but updatent, the otherwise of the provided the initial graphs to meet any Quipterent of samples of samples of samples of samples of samples to be deemed to have met holding times provided the initial graphs as performed within the gapticable holding time. Where reanalysis demonstrates that sample matrix the provided the initial graphs with the gapticable holding time.

4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any decertification or revocation of any license, or notice of either, which affects work in progress.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Clerit's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be limited to repeating any services performed, contingent on the Ctient's providing, at the request of CTL and at the Ctient's expense, additional campile(e) if necessary. Any reanalysis requested by the Ctient's expense, at the request of CTL and at the Ctient's expense, additional campile(e) if necessary. Any reanalysis requested by the Ctient's expense. If resampting costs will be at the Ctient's expense. If resampting is necessary, CTL's liability for resampting costs will be imitted to actual cost or one hundred or one hundred fifty dollars (\$150) per sample, whichever is less.

4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or logal process.

5.3 Should the Results delivered by CTL be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold CTL's right to independently defend its data.

5.4 CTL reserves the right to subcontract services ordered by the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and insurance are those of the subcontracted laboratory.

5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to store them for an alternate period of time or to rotum such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable Federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at their own expense. CTL reserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated waste disposal vendor(s).

5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records for five (5) years.

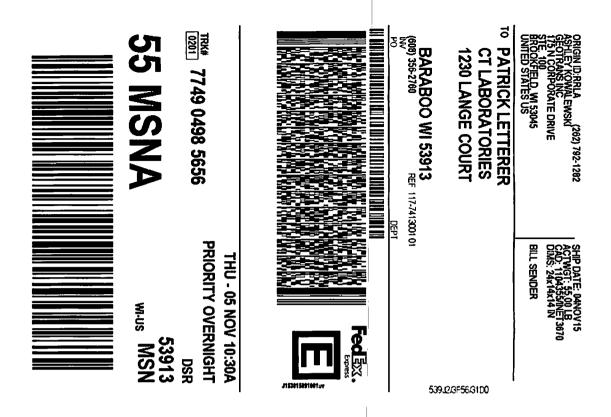
5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attempt fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and at reasonable expenses associated with the itigation.

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work, CTL shall also maintain during such period, Comprehensive General and Contractual Liability (limit of \$2,000,000 per occurrence/aggregate). Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of \$5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

. AUDII

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Ice Present

Temperature Initials

Date_

Cooler #



QC SUMMARY REPORT

TETRA TECH Project Name: OCONOMOWOC

ELECTROPLATING

Lab	Control	Spike	Water
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Analytical Run #:	120630	Analysis Date:	11/10/2015	Prep Batch #: Prep Date/Time:	Matrix:	LIQUID
CTLab #:	656666	Analysis Time:	10:21		Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro Limit		RPD	RPD Limit
Chloride	15.28	mg/L			15.00	102	80		120		
Sulfate	24.55	mg/L			25.00	98	80		120		

ELECTROPLATING

Analytical Run #:	120630	Analysis Date:	11/7/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	656672	Analysis Time:	01:15	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	15.20	mg/L			15.00	101	80 120		
Sulfate	24.31	mg/L			25.00	97	80 120		

ELECTROPLATING

Analytical Run #:	120630	Analysis Date:	11/10/2015	Prep Batch #:	Matrix:	LIQUID	
CTLab #:	656319	Analysis Time:	10:42	Prep Date/Time:	Method:	SW9056A	
Parent Sample #:		Analyst:	JJF	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	1.0	mg/L		U	0		1.0		
Sulfate	1.0	mg/L		U	0		1.0		

TETRA TECH

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

SDG #: 0 Folder #: 115214

Method Blank Water

Analytical Run #:	120630	Analysis Date:	11/7/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	656669	Analysis Time:	01:36	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	1.0	mg/L		U	0		1.0		
Sulfate	1.0	mg/L		U	0		1.0		

TETRA TECH

Folder #: 115214

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Duplicate

Analytical Run	#: 120671	Analysis Date:	11/7/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	655871	Analysis Time:	02:54	Prep Date/Time:	Method:	SW9060
Parent Sample	#: 654003	Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Total Organic Carbon	1.14	mg/L	1.4					20	20	

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Lab Control Spike Water										
Analytical Run #: CTLab #: Parent Sample #:	120671 655860	,		11/6/2015 16:23 JJF	16:23 Prep Date/Time:			Matrix: Method:	LIQUID SW9060	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		53.25	mg/L			50.00	106	85 111		

TETRA TECH Project Nam

Folder #: 115214

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Method	Blank	Water

Analytical Run #:	120671	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	LIQUID	
CTLab #:	655861	Analysis Time:	16:38	Prep Date/Time:	Method:	SW9060	
Parent Sample #:		Analyst:	JJF	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Organic Carbon	0.4	mg/L		U	0	•	0.4	•	•

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

				Matrix Spike	Duplicate Wa	nter						
Analytical Run #: CTLab #: Parent Sample #:	120671 655873 655872	•	sis Date: sis Time: st:	11/7/2015 03:19 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Mat Met	rix: :hod:		GROL SW90	JND WATER 60
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imits		RPD	RPD Limit
otal Organic Carbon		50.5	mg/L	1.4		50.0	98	82		119	5	6

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

				Matrix S	pike Water						
Analytical Run #: CTLab #: Parent Sample #:	120671 655872 654003	•	sis Date: sis Time: st:	11/7/2015 03:05 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix: Method:		GROU SW90	IND WATER 60
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits		RPD	RPD Limit
otal Organic Carbon		48.2	mg/L	1.4		50.0	94	82	119		6

ELECTROPLATING

				Lab Contro	l Spike Wate	r				
Analytical Run #: CTLab #:	120730 655257	•	is Date:	11/9/2015 14:02	Prep Batch #: Prep Date/Tim			Matrix: Method:	LIQUI E310.:	
Parent Sample #:		Analys	t:	MER	Prep Analyst:					
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
lkalinity		370.0	mg/L			375.0	99	90 11)	

TETRA TECH Project

Folder #: 115214

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Method	Blank	Water
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Analytical Run #:	120730	Analysis Date:	11/9/2015	Prep Batch #:	Matrix:	LIQUID	
CTLab #:	655258	Analysis Time:	14:03	Prep Date/Time:	Method:	E310.2	
Parent Sample #:		Analyst:	MER	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Alkalinity	7	mg/L		U	0		7	7		

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Analytical Run #:	120646	Analysis Date:	11/13/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	659693	Analysis Time:	19:58	Prep Date/Time:	Method:	SW6010
Parent Sample #:	659692	Analyst:	DC	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro _imit		RPD	RPD Limit
Iron	1.94	mg/L	BDL		2.00	97	72		113	6	18
Manganese	914	ug/L	4.6		1000	91	67		121	4	13

TETRA TECH

Folder #: 115214

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Matrix Spike Water	Matrix	Spike	Water
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Ī	Analytical Run #:	120646	Analysis Date:	11/13/2015	Prep Batch #:	Matrix:	GROUND WATER
	CTLab #:	659692	Analysis Time:	19:52	Prep Date/Time:	Method:	SW6010
	Parent Sample #:	654010	Analyst:	DC	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	1.83	mg/L	BDL		2.00	92	72 113		18
Manganese	947	ug/L	4.6		1000	94	67 121		13

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Lab Control S	pike Water
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Analytical Run #:	120989	Analysis Date:	11/17/2015	Prep Batch #:	55106	Matrix:	LIQUID
CTLab #:	658996	Analysis Time:	17:12	Prep Date/Time:	11/16/201512:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imits		RPD	RPD Limit
Iron	0.4190	mg/L			0.4000	105	80		115		
Manganese	211.0	ug/L			200.0	106	86		112		

TETRA TECH

Folder #: 115214

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

	Method	Blank	Water
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atrix: LIQUID
ethod: SW6010

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.02	mg/L		U	0		0.02		
Manganese	1.4	ug/L		U	0		1.4		

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Matrix	Snike	Duplicate	Water
IVIALI IA	JUINE	Dublicate	vvalei

Analytical Run #:	120989 658998	Analysis Date: Analysis Time:	11/17/2015 17:34	Prep Batch #: Prep Date/Time:	55106 11/16/201 <i>5</i> 12:00	Matrix: Method:	GROUND WATER SW6010
Parent Sample #:	658997	Analyst:	NAH	Prep Analyst:	LJF		2110010

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.394	mg/L	0.0614		0.400	83	72 118	0	11
Manganese	484	ug/L	309		200	88	84 111	3	7

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Matriv	Sniko	Water	

Analytical Run #:	120989	Analysis Date:	11/17/2015	Prep Batch #:	55106	Matrix:	GROUND WATER
CTLab #:	658997	Analysis Time:	17:28	Prep Date/Time:	11/16/201512:00	Method:	SW6010
Parent Sample #:	653981	Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.395	mg/L	0.0614		0.400	83	72 118		
Manganese	500	ug/L	309		200	96	84 111		

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #: Analysis Date: Prep Batch #: 120653 11/6/2015 Matrix: LIQUID CTLab #: Analysis Time: Prep Date/Time: Method: 655040 15:44 SW8260C Parent Sample #: Analyst: RLD Prep Analyst:

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
I,1,1,2-Tetrachloroethane	4.26	ug/L			4.00	106	74 127		
I,1,1-Trichloroethane	4.28	ug/L			4.00	107	73 132		
1,1,2,2-Tetrachloroethane	4.14	ug/L			4.00	104	67 129		
1,1,2-Trichloroethane	4.14	ug/L			4.00	104	73 129		
,1-Dichloroethane	4.14	ug/L			4.00	104	73 129		
,1-Dichloroethene	4.36	ug/L			4.00	109	73 132		
,1-Dichloropropene	4.22	ug/L			4.00	106	75 125		
1,2 Dichloroethane-d4	97.0	% Recovery			100	97.0	68 120		
,2,3-Trichlorobenzene	4.39	ug/L			4.00	110	72 125		
1,2,3-Trichloropropane	3.98	ug/L			4.00	100	68 136		
,2,4-Trichlorobenzene	4.29	ug/L			4.00	107	67 124		
,2,4-Trimethylbenzene	4.37	ug/L			4.00	109	77 123		
,2-Dibromo-3-chloropropane	4.22	ug/L			4.00	106	56 138		
,2-Dibromoethane	4.20	ug/L			4.00	105	76 127		
,2-Dichlorobenzene	4.27	ug/L			4.00	107	82 120		
,2-Dichloroethane	4.10	ug/L			4.00	102	72 134		
,2-Dichloropropane	4.08	ug/L			4.00	102	76 124		
,3,5-Trimethylbenzene	4.42	ug/L			4.00	110	77 124		
,3-Dichlorobenzene	4.34	ug/L			4.00	108	81 120		
,3-Dichloropropane	4.07	ug/L			4.00	102	76 125		
,4-Dichlorobenzene	4.16	ug/L			4.00	104	80 120		
,2-Dichloropropane	4.16	ug/L			4.00	104	54 144		
-Butanone	38.7	ug/L			40.0	97	57 144		
-Chlorotoluene	4.25	ug/L			4.00	106	77 123		
-Hexanone	39.4	ug/L			40.0	98	61 132		
-Chlorotoluene	4.33	ug/L			4.00	108	76 124		
-Methyl-2-pentanone	41.0	ug/L			40.0	102	64 135		
Acetone	32.5	ug/L			40.0	81	51 152		
enzene	4.26	ug/L			4.00	106	80 122		
romobenzene	4.30	ug/L			4.00	108	81 120		
romochloromethane	4.05	ug/L			4.00	101	78 126		
romodichloromethane	4.25	ug/L			4.00	106	67 132		
Bromofluorobenzene	100	% Recovery			100	100	68 120		
Bromoform	4.09	ug/L			4.00	102	55 132		
romomethane	4.19	ug/L			4.00	105	65 141		
Carbon disulfide	8.52	ug/L			8.00	106	61 140		
Carbon tetrachloride	4.36	ug/L			4.00	109	72 133		
Chlorobenzene	4.20	ug/L			4.00	105	80 122		
Chloroethane	4.09	ug/L			4.00	102	71 134		
Chloroform	4.18	ug/L			4.00	104	73 127		
Chloromethane	3.93	ug/L			4.00	98	72 128		
is-1,2-Dichloroethene	4.27	ug/L			4.00	107	76 127		

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #:	120653	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	655040	Analysis Time:	15:44	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	4.23	ug/L			4.00	106	72 125		
d8-Toluene	100	% Recovery			100	100	71 117		
Dibromochloromethane	4.18	ug/L			4.00	104	60 131		
Dibromofluoromethane	98.0	% Recovery			100	98.0	67 121		
Dibromomethane	3.98	ug/L			4.00	100	76 129		
Dichlorodifluoromethane	4.17	ug/L			4.00	104	64 149		
Diisopropyl ether	4.19	ug/L			4.00	105	62 137		
Ethylbenzene	4.30	ug/L			4.00	108	80 121		
Hexachlorobutadiene	4.09	ug/L			4.00	102	71 131		
sopropylbenzene	4.39	ug/L			4.00	110	75 122		
n & p-Xylene	8.63	ug/L			8.00	108	80 121		
Methyl tert-butyl ether	4.13	ug/L			4.00	103	63 135		
Methylene chloride	4.10	ug/L			4.00	102	38 174		
-Butylbenzene	4.25	ug/L			4.00	106	71 125		
-Propylbenzene	4.41	ug/L			4.00	110	76 122		
laphthalene	4.34	ug/L			4.00	108	64 126		
-Xylene	4.26	ug/L			4.00	106	77 120		
-Isopropyltoluene	4.39	ug/L			4.00	110	76 122		
ec-Butylbenzene	4.33	ug/L			4.00	108	75 122		
Styrene	4.35	ug/L			4.00	109	76 121		
ert-Butylbenzene	4.43	ug/L			4.00	111	77 120		
etrachloroethene	4.28	ug/L			4.00	107	75 127		
etrahydrofuran	39.9	ug/L			40.0	100	60 131		
oluene	4.32	ug/L			4.00	108	80 122		
ans-1,2-Dichloroethene	4.26	ug/L			4.00	106	68 136		
ans-1,3-Dichloropropene	4.31	ug/L			4.00	108	65 126		
richloroethene	4.35	ug/L			4.00	109	78 126		
richlorofluoromethane	4.28	ug/L			4.00	107	70 145		
inyl acetate	44.4	ug/L			40.0	111	38 152		
'inyl chloride	4.24	ug/L			4.00	106	71 135		

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	120653	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	655094	Analysis Time:	16:42	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.05	ug/L		U	0		0.05		
1,1,1-Trichloroethane	0.06	ug/L		U	0		0.06		
1,1,2,2-Tetrachloroethane	0.020	ug/L		U	0		0.020		
1,1,2-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1-Dichloroethane	0.06	ug/L		U	0		0.06		
1,1-Dichloroethene	0.07	ug/L		U	0		0.07		
1,1-Dichloropropene	0.06	ug/L		U	0		0.06		
1,2 Dichloroethane-d4	103	% Recovery			100	103	68 120		
1,2,3-Trichlorobenzene	0.05	ug/L		U	0		0.05		
1,2,3-Trichloropropane	0.04	ug/L		U	0		0.04		
1,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,4-Trimethylbenzene	0.05	ug/L		U	0		0.05		
1,2-Dibromo-3-chloropropane	0.03	ug/L		U	0		0.03		
1,2-Dibromoethane	0.04	ug/L		U	0		0.04		
1,2-Dichlorobenzene	0.06	ug/L		U	0		0.06		
1,2-Dichloroethane	0.04	ug/L		U	0		0.04		
1,2-Dichloropropane	0.06	ug/L		U	0		0.06		
1,3,5-Trimethylbenzene	0.06	ug/L		U	0		0.06		
1,3-Dichlorobenzene	0.06	ug/L		U	0		0.06		
1,3-Dichloropropane	0.04	ug/L		U	0		0.04		
1,4-Dichlorobenzene	0.05	ug/L		U	0		0.05		
2,2-Dichloropropane	0.04	ug/L		U	0		0.04		
2-Butanone	0.8	ug/L		U	0		0.8		
2-Chlorotoluene	0.06	ug/L		U	0		0.06		
2-Hexanone	0.4	ug/L		U	0		0.4		
4-Chlorotoluene	0.05	ug/L		U	0		0.05		
4-Methyl-2-pentanone	0.4	ug/L		U	0		0.4		
Acetone	0.9	ug/L		U	0		0.9		
Benzene	0.06	ug/L		U	0		0.06		
Bromobenzene	0.04	ug/L		U	0		0.04		
Bromochloromethane	0.017	ug/L		U	0		0.017		
Bromodichloromethane	0.017	ug/L		U	0		0.017		
Bromofluorobenzene	100	% Recovery			100	100	68 120		
Bromoform	0.018	ug/L		U	0		0.018		
Bromomethane	0.09	ug/L		U	0		0.09		
Carbon disulfide	0.11	ug/L		U	0		0.11		
Carbon tetrachloride	0.06	ug/L		U	0		0.06		
Chlorobenzene	0.04	ug/L		U	0		0.04		
Chloroethane	0.06	ug/L		U	0		0.06		
Chloroform	0.06	ug/L		U	0		0.06		
Chloromethane	0.0667	ug/L			0		0.05		
cis-1,2-Dichloroethene	0.06	ug/L		U	0		0.06		

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	120653	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	655094	Analysis Time:	16:42	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent Qualit sample result	ier(s) Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.015	ug/L	U	0		0.015		
d8-Toluene	101	% Recovery		100	101	71 117		
Dibromochloromethane	0.016	ug/L	U	0		0.016		
Dibromofluoromethane	101	% Recovery		100	101	67 122		
Dibromomethane	0.06	ug/L	U	0		0.06		
Dichlorodifluoromethane	0.06	ug/L	U	0		0.06		
Diisopropyl ether	0.04	ug/L	U	0		0.04		
Ethylbenzene	0.06	ug/L	U	0		0.06		
Hexachlorobutadiene	0.07	ug/L	U	0		0.07		
sopropylbenzene	0.05	ug/L	U	0		0.05		
n & p-Xylene	0.12	ug/L	U	0		0.12		
Methyl tert-butyl ether	0.04	ug/L	U	0		0.04		
Methylene chloride	0.06	ug/L	U	0		0.06		
-Butylbenzene	0.05	ug/L	U	0		0.05		
n-Propylbenzene	0.05	ug/L	U	0		0.05		
Naphthalene	0.05	ug/L	U	0		0.05		
o-Xylene	0.05	ug/L	U	0		0.05		
o-Isopropyltoluene	0.06	ug/L	U	0		0.06		
ec-Butylbenzene	0.05	ug/L	U	0		0.05		
Styrene	0.05	ug/L	U	0		0.05		
ert-Butylbenzene	0.06	ug/L	U	0		0.06		
etrachloroethene	0.06	ug/L	U	0		0.06		
etrahydrofuran	0.6	ug/L	U	0		0.6		
oluene	0.06	ug/L	U	0		0.06		
rans-1,2-Dichloroethene	0.06	ug/L	U	0		0.06		
rans-1,3-Dichloropropene	0.014	ug/L	U	0		0.014		
richloroethene	0.03	ug/L	U	0		0.03		
richlorofluoromethane	0.05	ug/L	U	0		0.05		
/inyl acetate	0.5	ug/L	U	0		0.5		
/inyl chloride	0.016	ug/L	U	0		0.016		

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #:	120654	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	654729	Analysis Time:	08:41	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Parent Sample #.	Analys	SI. KL		Prep Analyst:					
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.35	ug/L			4.00	109	74 127		
1,1,1-Trichloroethane	4.32	ug/L			4.00	108	73 132		
1,1,2,2-Tetrachloroethane	3.99	ug/L			4.00	100	67 129		
1,1,2-Trichloroethane	3.97	ug/L			4.00	99	73 129		
1,1-Dichloroethane	4.24	ug/L			4.00	106	73 129		
1,1-Dichloroethene	4.46	ug/L			4.00	112	73 132		
1,1-Dichloropropene	4.29	ug/L			4.00	107	75 125		
1,2 Dichloroethane-d4	92.0	% Recovery			100	92.0	68 120		
1,2,3-Trichlorobenzene	4.29	ug/L			4.00	107	72 125		
1,2,3-Trichloropropane	4.10	ug/L			4.00	102	68 136		
1,2,4-Trichlorobenzene	4.24	ug/L			4.00	106	67 124		
1,2,4-Trimethylbenzene	4.43	ug/L			4.00	111	77 123		
1,2-Dibromo-3-chloropropane	3.91	ug/L			4.00	98	56 138		
1,2-Dibromoethane	4.21	ug/L			4.00	105	76 127		
1,2-Dichlorobenzene	4.18	ug/L			4.00	104	82 120		
1,2-Dichloroethane	4.13	ug/L			4.00	103	72 134		
1,2-Dichloropropane	4.14	ug/L			4.00	104	76 124		
1,3,5-Trimethylbenzene	4.47	ug/L			4.00	112	77 124		
1,3-Dichlorobenzene	4.27	ug/L			4.00	107	81 120		
1,3-Dichloropropane	4.02	ug/L			4.00	100	76 125		
1,4-Dichlorobenzene	4.05	ug/L			4.00	101	80 120		
2,2-Dichloropropane	4.35	ug/L			4.00	109	54 144		
2-Butanone	43.0	ug/L			40.0	108	57 144		
2-Chlorotoluene	4.31	ug/L			4.00	108	77 123		
2-Hexanone	43.0	ug/L			40.0	108	61 132		
4-Chlorotoluene	4.35	ug/L			4.00	109	76 124		
4-Methyl-2-pentanone	41.1	ug/L			40.0	103	64 135		
Acetone	46.1	ug/L			40.0	115	51 152		
Benzene	4.30	ug/L			4.00	108	80 122		
Bromobenzene	4.23	ug/L			4.00	106	81 120		
Bromochloromethane	4.08	ug/L			4.00	102	78 126		
Bromodichloromethane	4.30	ug/L			4.00	108	67 132		
Bromofluorobenzene	98.0	% Recovery			100	98.0	68 120		
Bromoform	4.42	ug/L			4.00	110	55 132		
Bromomethane	4.26	ug/L			4.00	106	65 141		
Carbon disulfide	8.71	ug/L			8.00	109	61 140		
Carbon tetrachloride	4.51	ug/L			4.00	113	72 133		
Chlorobenzene	4.26	ug/L			4.00	106	80 122		
Chloroethane	4.25	ug/L			4.00	106	71 134		
Chloroform	4.27	ug/L			4.00	107	73 127		
Chloromethane	4.20	ug/L			4.00	105	72 128		
cis-1,2-Dichloroethene	4.27	ug/L			4.00	107	76 127		

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Lab Control Spike Water

	nalytical Run #:	120654 654729	Analysis Date: Analysis Time:	11/6/2015 08:41	Prep Batch #: Prep Date/Time:	Matrix: Method:	LIQUID SW8260C
F	Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	4.35	ug/L			4.00	109	72 125		
d8-Toluene	100	% Recovery			100	100	71 117		
Dibromochloromethane	4.34	ug/L			4.00	108	60 131		
Dibromofluoromethane	100	% Recovery			100	100	67 121		
Dibromomethane	3.95	ug/L			4.00	99	76 129		
Dichlorodifluoromethane	4.27	ug/L			4.00	107	64 149		
Diisopropyl ether	4.19	ug/L			4.00	105	62 137		
thylbenzene	4.37	ug/L			4.00	109	80 121		
lexachlorobutadiene	4.10	ug/L			4.00	102	71 131		
sopropylbenzene	4.46	ug/L			4.00	112	75 122		
n & p-Xylene	8.75	ug/L			8.00	109	80 121		
Methyl tert-butyl ether	4.17	ug/L			4.00	104	63 135		
Methylene chloride	4.11	ug/L			4.00	103	38 174		
-Butylbenzene	4.34	ug/L			4.00	108	71 125		
-Propylbenzene	4.47	ug/L			4.00	112	76 122		
laphthalene	4.18	ug/L			4.00	104	64 126		
-Xylene	4.24	ug/L			4.00	106	77 120		
-Isopropyltoluene	4.45	ug/L			4.00	111	76 122		
ec-Butylbenzene	4.46	ug/L			4.00	112	75 122		
Styrene	4.40	ug/L			4.00	110	76 121		
ert-Butylbenzene	4.47	ug/L			4.00	112	77 120		
etrachloroethene	4.38	ug/L			4.00	110	75 127		
etrahydrofuran	39.0	ug/L			40.0	98	60 131		
oluene	4.44	ug/L			4.00	111	80 122		
ans-1,2-Dichloroethene	4.33	ug/L			4.00	108	68 136		
ans-1,3-Dichloropropene	4.26	ug/L			4.00	106	65 126		
richloroethene	4.40	ug/L			4.00	110	78 126		
richlorofluoromethane	4.54	ug/L			4.00	114	70 145		
inyl acetate	39.7	ug/L			40.0	99	38 152		
'inyl chloride	4.28	ug/L			4.00	107	71 135		

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	120654	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	654730	Analysis Time:	09:39	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

nalyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
,1,1,2-Tetrachloroethane	0.05	ug/L		U	0		0.05		
,1,1-Trichloroethane	0.06	ug/L		U	0		0.06		
,1,2,2-Tetrachloroethane	0.020	ug/L		U	0		0.020		
,1,2-Trichloroethane	0.05	ug/L		U	0		0.05		
,1-Dichloroethane	0.06	ug/L		U	0		0.06		
,1-Dichloroethene	0.07	ug/L		U	0		0.07		
,1-Dichloropropene	0.06	ug/L		U	0		0.06		
,2 Dichloroethane-d4	102	% Recovery			100	102	68 120		
,2,3-Trichlorobenzene	0.05	ug/L		U	0		0.05		
,2,3-Trichloropropane	0.04	ug/L		U	0		0.04		
,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04		
,2,4-Trimethylbenzene	0.05	ug/L		U	0		0.05		
,2-Dibromo-3-chloropropane	0.03	ug/L		U	0		0.03		
,2-Dibromoethane	0.04	ug/L		U	0		0.04		
,2-Dichlorobenzene	0.06	ug/L		U	0		0.06		
,2-Dichloroethane	0.04	ug/L		U	0		0.04		
,2-Dichloropropane	0.06	ug/L		U	0		0.06		
,3,5-Trimethylbenzene	0.06	ug/L		U	0		0.06		
,3-Dichlorobenzene	0.06	ug/L		U	0		0.06		
,3-Dichloropropane	0.04	ug/L		U	0		0.04		
,4-Dichlorobenzene	0.05	ug/L		U	0		0.05		
,2-Dichloropropane	0.04	ug/L		U	0		0.04		
-Butanone	0.8	ug/L		U	0		0.8		
-Chlorotoluene	0.06	ug/L		U	0		0.06		
-Hexanone	0.4	ug/L		U	0		0.4		
-Chlorotoluene	0.05	ug/L		U	0		0.05		
-Methyl-2-pentanone	0.4	ug/L		U	0		0.4		
cetone	0.9	ug/L		U	0		0.9		
Senzene	0.06	ug/L		U	0		0.06		
romobenzene	0.04	ug/L		U	0		0.04		
romochloromethane	0.017	ug/L		U	0		0.017		
romodichloromethane	0.017	ug/L		U	0		0.017		
romofluorobenzene	98.0	% Recovery		_	100	98.0	68 120		
romoform	0.018	ug/L		U	0	55.0	0.018		
romomethane	0.09	ug/L		U	0		0.09		
arbon disulfide	0.03	ug/L		U	0		0.09		
arbon tetrachloride	0.06	ug/L		U	0		0.06		
hlorobenzene	0.04	ug/L ug/L		U	0		0.00		
Chloroethane	0.04	ug/L ug/L		U	0		0.04		
		-							
Chloroform	0.06	ug/L		U	0		0.06		
Chloromethane	0.05	ug/L		U	0		0.05 0.06		

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	120654	Analysis Date:	11/6/2015	Prep Batch #: Prep Date/Time:	Matrix:	LIQUID
CTLab #:	654730	Analysis Time:	09:39		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.015	ug/L		U	0		0.015		
d8-Toluene	100	% Recovery			100	100	71 117		
Dibromochloromethane	0.016	ug/L		U	0		0.016		
Dibromofluoromethane	100	% Recovery			100	100	67 122		
Dibromomethane	0.06	ug/L		U	0		0.06		
Dichlorodifluoromethane	0.06	ug/L		U	0		0.06		
Diisopropyl ether	0.04	ug/L		U	0		0.04		
Ethylbenzene	0.06	ug/L		U	0		0.06		
Hexachlorobutadiene	0.07	ug/L		U	0		0.07		
sopropylbenzene	0.05	ug/L		U	0		0.05		
m & p-Xylene	0.12	ug/L		U	0		0.12		
Methyl tert-butyl ether	0.04	ug/L		U	0		0.04		
Methylene chloride	0.06	ug/L		U	0		0.06		
n-Butylbenzene	0.05	ug/L		U	0		0.05		
n-Propylbenzene	0.05	ug/L		U	0		0.05		
Naphthalene	0.05	ug/L		U	0		0.05		
o-Xylene	0.05	ug/L		U	0		0.05		
o-Isopropyltoluene	0.06	ug/L		U	0		0.06		
ec-Butylbenzene	0.05	ug/L		U	0		0.05		
Styrene	0.05	ug/L		U	0		0.05		
ert-Butylbenzene	0.06	ug/L		U	0		0.06		
Tetrachloroethene	0.06	ug/L		U	0		0.06		
Tetrahydrofuran	0.6	ug/L		U	0		0.6		
Toluene	0.06	ug/L		U	0		0.06		
rans-1,2-Dichloroethene	0.06	ug/L		U	0		0.06		
rans-1,3-Dichloropropene	0.014	ug/L		U	0		0.014		
richloroethene	0.03	ug/L		U	0		0.03		
Trichlorofluoromethane	0.05	ug/L		U	0		0.05		
/inyl acetate	0.5	ug/L		U	0		0.5		
Vinyl chloride	0.016	ug/L		U	0		0.016		

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analytical Run #: Analysis Date: Prep Batch #: 120654 11/6/2015 Matrix: **GROUND WATER** CTLab #: Analysis Time: Prep Date/Time: Method: SW8260C 654992 15:04 Parent Sample #: 654988 Analyst: RLD Prep Analyst:

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imits		RPD	RPD Limit	
1,1,1,2-Tetrachloroethane	4.02	ug/L	BDL		4.00	100	71		136	2	21	_
1,1,1-Trichloroethane	4.27	ug/L	BDL		4.00	107	77		150	2	20	
1,1,2,2-Tetrachloroethane	4.17	ug/L	BDL		4.00	104	68		139	11	22	
1,1,2-Trichloroethane	3.89	ug/L	BDL		4.00	97	70		139	8	25	
1,1-Dichloroethane	3.99	ug/L	BDL		4.00	100	65		149	3	25	
1,1-Dichloroethene	4.21	ug/L	BDL		4.00	105	56		164	5	24	
1,1-Dichloropropene	4.31	ug/L	BDL		4.00	108	65		146	2	21	
1,2 Dichloroethane-d4	99.0	% Recovery			100	99.0	65		128		7	
1,2,3-Trichlorobenzene	4.26	ug/L	BDL		4.00	106	62		135	4	31	
1,2,3-Trichloropropane	3.89	ug/L	BDL		4.00	97	66		145	8	26	
1,2,4-Trichlorobenzene	4.19	ug/L	BDL		4.00	105	61		132	3	29	
1,2,4-Trimethylbenzene	4.21	ug/L	BDL		4.00	105	1		154	1	36	
1,2-Dibromo-3-chloropropane	4.06	ug/L	BDL		4.00	102	49		144	13	34	
1,2-Dibromoethane	3.88	ug/L	BDL		4.00	97	76		132	4	22	
1,2-Dichlorobenzene	4.04	ug/L	BDL		4.00	101	78		128	4	23	
1,2-Dichloroethane	3.78	ug/L	BDL		4.00	94	70		147	3	21	
1,2-Dichloropropane	3.90	ug/L	BDL		4.00	98	72		138	2	19	
1,3,5-Trimethylbenzene	4.27	ug/L	BDL		4.00	107	1		151	1	34	
1,3-Dichlorobenzene	4.15	ug/L	BDL		4.00	104	78		127	3	22	
1,3-Dichloropropane	3.86	ug/L	BDL		4.00	96	73		136	5	23	
1,4-Dichlorobenzene	3.97	ug/L	BDL		4.00	99	78		127	2	22	
2,2-Dichloropropane	4.24	ug/L	BDL		4.00	106	50		165	1	21	
2-Butanone	37.6	ug/L	BDL		40.0	94	45		160	5	29	
2-Chlorotoluene	4.12	ug/L	BDL		4.00	103	74		130	2	20	
2-Hexanone	40.2	ug/L	BDL		40.0	100	55		143	9	28	
4-Chlorotoluene	4.19	ug/L	BDL		4.00	105	57		131	4	22	
4-Methyl-2-pentanone	42.1	ug/L	BDL		40.0	105	58		146	11	29	
Acetone	27.6	ug/L	BDL		40.0	69	27		172	6	39	
Benzene	4.03	ug/L	BDL		4.00	101	81		134	1	17	
Bromobenzene	4.05	ug/L	BDL		4.00	101	80		127	4	20	
Bromochloromethane	3.79	ug/L	BDL		4.00	95	73		143	0	22	
Bromodichloromethane	3.94	ug/L	BDL		4.00	98	64		139	1	20	
Bromofluorobenzene	99.0	% Recovery			100	99.0	67		120		7	
Bromoform	3.95	ug/L	BDL		4.00	99	49		125	6	28	
Bromomethane	3.87	ug/L	BDL		4.00	97	59		167	3	34	
Carbon disulfide	8.59	ug/L	BDL		8.00	107	12		140	1	31	
Carbon tetrachloride	4.46	ug/L	BDL		4.00	112	74		153	1	20	
Chlorobenzene	3.98	ug/L	BDL		4.00	100	82		130	1	21	
Chloroethane	4.18	ug/L	BDL		4.00	104	64		165	5	26	
Chloroform	3.93	ug/L	BDL		4.00	98	73		138	1	18	
Chloromethane	3.83	ug/L	0.058		4.00	94	62		157	2	21	
cis-1,2-Dichloroethene	4.05	ug/L	BDL		4.00	101	75		152	2	21	

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analytical Run #:	120654	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	654992	Analysis Time:	15:04	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	654988	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imit		RPD	RPD Limit
cis-1,3-Dichloropropene	3.95	ug/L	BDL		4.00	99	61		129	4	21
d8-Toluene	100	% Recovery			100	100	60		119		7
Dibromochloromethane	3.94	ug/L	BDL		4.00	98	56		130	4	23
Dibromofluoromethane	100	% Recovery			100	100	65		128		7
Dibromomethane	3.63	ug/L	BDL		4.00	91	71		142	3	21
Dichlorodifluoromethane	4.49	ug/L	BDL		4.00	112	62		196	1	22
Diisopropyl ether	3.97	ug/L	BDL		4.00	99	46		161	3	27
Ethylbenzene	4.15	ug/L	BDL		4.00	104	52		139	0	24
Hexachlorobutadiene	4.48	ug/L	BDL		4.00	112	66		147	3	30
Isopropylbenzene	4.29	ug/L	BDL		4.00	107	50		135	1	24
m & p-Xylene	8.28	ug/L	BDL		8.00	104	1		156	2	28
Methyl tert-butyl ether	3.72	ug/L	BDL		4.00	93	46		161	0	33
Methylene chloride	3.46	ug/L	BDL		4.00	86	10		181	2	36
n-Butylbenzene	4.46	ug/L	BDL		4.00	112	46		144	1	24
n-Propylbenzene	4.32	ug/L	BDL		4.00	108	51		139	0	23
Naphthalene	4.34	ug/L	BDL		4.00	108	45		135	9	31
o-Xylene	3.98	ug/L	BDL		4.00	100	11		148	1	26
p-Isopropyltoluene	4.35	ug/L	BDL		4.00	109	18		148	1	27
sec-Butylbenzene	4.44	ug/L	BDL		4.00	111	57		138	0	23
Styrene	4.14	ug/L	BDL		4.00	104	1		159	2	40
tert-Butylbenzene	4.39	ug/L	BDL		4.00	110	74		132	1	22
Tetrachloroethene	4.34	ug/L	BDL		4.00	108	79		144	1	21
Tetrahydrofuran	38.0	ug/L	BDL		40.0	95	51		139	4	28
Toluene	4.16	ug/L	BDL		4.00	104	56		141	1	19
rans-1,2-Dichloroethene	4.22	ug/L	BDL		4.00	106	53		161	2	28
rans-1,3-Dichloropropene	4.05	ug/L	BDL		4.00	101	57		124	5	21
Trichloroethene	4.17	ug/L	BDL		4.00	104	74		138	1	19
Trichlorofluoromethane	4.65	ug/L	BDL		4.00	116	83		174	3	23
Vinyl acetate	42.7	ug/L	BDL		40.0	107	0		198	2	25
Vinyl chloride	4.28	ug/L	BDL		4.00	107	65		168	0	21

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Matrix Spike Water

Analytical Run #: Prep Batch #: 120654 Analysis Date: 11/6/2015 Matrix: **GROUND WATER** CTLab #: Analysis Time: Prep Date/Time: Method: 654988 14:35 SW8260C Parent Sample #: 654005 Analyst: RLD Prep Analyst:

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imits		RPD	RPD Limit
,1,1,2-Tetrachloroethane	3.96	ug/L E	BDL		4.00	99	71		136		21
,1,1-Trichloroethane	4.20	ug/L	BDL		4.00	105	77		150		20
,1,2,2-Tetrachloroethane	3.74	ug/L	BDL		4.00	94	68		139		22
,1,2-Trichloroethane	3.61	ug/L	BDL		4.00	90	70		139		25
,1-Dichloroethane	3.89	ug/L	BDL		4.00	97	65		149		25
,1-Dichloroethene	4.42	ug/L	BDL		4.00	110	56		164		24
,1-Dichloropropene	4.23	ug/L	BDL		4.00	106	65		146		21
,2 Dichloroethane-d4	94.0	% Recovery			100	94.0	65		128		7
,2,3-Trichlorobenzene	4.11	ug/L	BDL		4.00	103	62		135		31
,2,3-Trichloropropane	3.59	ug/L	BDL		4.00	90	66		145		26
,2,4-Trichlorobenzene	4.06	ug/L	BDL		4.00	102	61		132		29
,2,4-Trimethylbenzene	4.16	ug/L	BDL		4.00	104	1		154		36
,2-Dibromo-3-chloropropane	3.57	ug/L	BDL		4.00	89	49		144		34
,2-Dibromoethane	3.73	ug/L	BDL		4.00	93	76		132		22
,2-Dichlorobenzene	3.88	ug/L	BDL		4.00	97	78		128		23
,2-Dichloroethane	3.68	ug/L	BDL		4.00	92	70		147		21
,2-Dichloropropane	3.81	ug/L	BDL		4.00	95	72		138		19
,3,5-Trimethylbenzene	4.24	ug/L	BDL		4.00	106	1		151		34
,3-Dichlorobenzene	4.03	ug/L	BDL		4.00	101	78		127		22
,3-Dichloropropane	3.67	ug/L	BDL		4.00	92	73		136		23
,4-Dichlorobenzene	3.88	ug/L	BDL		4.00	97	78		127		22
,2-Dichloropropane	4.22	ug/L	BDL		4.00	106	50		165		21
-Butanone	35.7	ug/L	BDL		40.0	89	45		160		29
-Chlorotoluene	4.05	ug/L	BDL		4.00	101	74		130		20
-Hexanone	36.6	ug/L	BDL		40.0	92	55		143		28
-Chlorotoluene	4.04	ug/L	BDL		4.00	101	57		131		22
-Methyl-2-pentanone	37.8	ug/L	BDL		40.0	94	58		146		29
Acetone	26.1	ug/L	BDL		40.0	65	27		172		39
Benzene	4.01	ug/L	BDL		4.00	100	81		134		17
Bromobenzene	3.88	ug/L	BDL		4.00	97	80		127		20
Bromochloromethane	3.77	ug/L	BDL		4.00	94	73		143		22
Bromodichloromethane	3.89	ug/L	BDL		4.00	97	64		139		20
Bromofluorobenzene	99.0	% Recovery			100	99.0	67		120		7
Bromoform	3.70	ug/L	BDL		4.00	92	49		125		28
Bromomethane	3.97	ug/L	BDL		4.00	99	59		167		34
arbon disulfide	8.65	ug/L	BDL		8.00	108	12		140		31
Carbon tetrachloride	4.44	ug/L	BDL		4.00	111	74		153		20
Chlorobenzene	3.94	ug/L	BDL		4.00	98	82		130		21
Chloroethane	3.97	ug/L	BDL		4.00	99	64		165		26
Chloroform	3.89	ug/L	BDL		4.00	97	73		138		18
Chloromethane	3.74	ug/L	0.058		4.00	92	62		157		21
is-1,2-Dichloroethene	3.98	ug/L	BDL		4.00	100	75		152		21

TETRA TECH Project Name: OCONOMOWOC

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Matrix Spike Water

Analytical Run #:	120654	Analysis Date:	11/6/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	654988	Analysis Time:	14:35	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	654005	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro ₋imit:		RPD	RPD Limit
cis-1,3-Dichloropropene	3.81	ug/L	BDL		4.00	95	61		129		21
d8-Toluene	100	% Recovery			100	100	60		119		7
Dibromochloromethane	3.79	ug/L	BDL		4.00	95	56		130		23
Dibromofluoromethane	101	% Recovery			100	101	65		128		7
Dibromomethane	3.53	ug/L	BDL		4.00	88	71		142		21
Dichlorodifluoromethane	4.54	ug/L	BDL		4.00	114	62		196		22
Diisopropyl ether	3.85	ug/L	BDL		4.00	96	46		161		27
thylbenzene	4.16	ug/L	BDL		4.00	104	52		139		24
lexachlorobutadiene	4.36	ug/L	BDL		4.00	109	66		147		30
sopropylbenzene	4.32	ug/L	BDL		4.00	108	50		135		24
n & p-Xylene	8.42	ug/L	BDL		8.00	105	1		156		28
Methyl tert-butyl ether	3.73	ug/L	BDL		4.00	93	46		161		33
lethylene chloride	3.41	ug/L	BDL		4.00	85	10		181		36
-Butylbenzene	4.40	ug/L	BDL		4.00	110	46		144		24
-Propylbenzene	4.30	ug/L	BDL		4.00	108	51		139		23
laphthalene	3.96	ug/L	BDL		4.00	99	45		135		31
-Xylene	4.03	ug/L	BDL		4.00	101	11		148		26
-Isopropyltoluene	4.32	ug/L	BDL		4.00	108	18		148		27
ec-Butylbenzene	4.43	ug/L	BDL		4.00	111	57		138		23
tyrene	4.06	ug/L	BDL		4.00	102	1		159		40
ert-Butylbenzene	4.34	ug/L	BDL		4.00	108	74		132		22
etrachloroethene	4.30	ug/L	BDL		4.00	108	79		144		21
etrahydrofuran	36.4	ug/L	BDL		40.0	91	51		139		28
oluene	4.11	ug/L	BDL		4.00	103	56		141		19
ans-1,2-Dichloroethene	4.12	ug/L	BDL		4.00	103	53		161		28
ans-1,3-Dichloropropene	3.86	ug/L	BDL		4.00	96	57		124		21
richloroethene	4.22	ug/L	BDL		4.00	106	74		138		19
richlorofluoromethane	4.51	ug/L	BDL		4.00	113	83		174		23
inyl acetate	42.0	ug/L	BDL		40.0	105	0		198		25
'inyl chloride	4.29	ug/L	BDL		4.00	107	65		168		21

TETRA TECH Proje

Folder #: 115214

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Lab Control Spike Water	er	
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Analytical Run #: 120831 Analysis Date: 11/11/2015 Prep Batch #: 55029	Matrix: LIQUID	
CTLab #: 656351 Analysis Time: 09:28 Prep Date/Time: 11/11/2015	507:30 Method: RSK175	
Parent Sample #: Analyst: BMS Prep Analyst: BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ntro mits		RPD	RPD Limit
Acetylene	2.97	ug/L			3.06	97	70		130		20
Ethane	5.69	ug/L			4.77	119	70		130		20
Ethene	8.13	ug/L			6.79	120	65		124		20
Methane	2.70	ug/L			2.29	118	70		130		20

TETRA TECH

SDG #: 0

ECH Project Name: OCONOMOWOC

Folder #: 115214

ELECTROPLATING

Project Number: 117-7413001.01

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	Analytical Run #:	120831	Analysis Date:	11/11/2015	Prep Batch #:	55029	Matrix:	LIQUID
	CTLab #:	656350	Analysis Time:	09:39	Prep Date/Time:	11/11/201507:30	Method:	RSK175
	Parent Sample #:		Analyst:	BMS	Prep Analyst:	BMS		
L								

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Acetylene	0.23	ug/L		U	0		0.23		
Ethane	0.9	ug/L		U	0		0.9		
Ethene	1.2	ug/L		U	0		1.2		
Methane	0.4	ug/L		U	0		0.4		

TETRA TECH Project Name: OCONOMOWOC

ELECTROPLATING

SDG #: 0 Folder #: 115214 Project Number: 117-7413001.01

Analytical Run #:	120831	Analysis Date:	11/11/2015	Prep Batch #:	55029	Matrix:	GROUND WATER
CTLab #:	656359	Analysis Time:	11:34	Prep Date/Time:	11/11/201507:30	Method:	RSK175
Parent Sample #:	656358	Analyst:	BMS	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro _imits		RPD	RPD Limit
Acetylene	2.80	ug/L	BDL		3.06	92	70		130	4	20
Ethane	5.15	ug/L	BDL		4.77	108	70		130	2	20
Ethene	7.45	ug/L	BDL		6.79	110	41		138	5	43
Methane	2.64	ug/L	0.44		2.29	96	70		130	7	20

TETRA TECH

Folder #: 115214

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Matrix S	pike	Water
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Analytical Run #:	120831	Analysis Date:	11/11/2015	Prep Batch #:	55029	Matrix:	GROUND WATER
CTLab #:	656358	Analysis Time:	11:24	Prep Date/Time:	11/11/201507:30	Method:	RSK175
Parent Sample #:	654003	Analyst:	BMS	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Acetylene	2.92	ug/L	BDL		3.06	95	70 130		
Ethane	5.28	ug/L	BDL		4.77	111	70 130		
Ethene	7.81	ug/L	BDL		6.79	115	41 138		
Methane	2.82	ug/L	0.44		2.29	104	70 130		



Sample Condition Report

Folder #: 115214 Client: **TETRA TECH** Print Date / Time:

Received Date / Time / By:

11/05/2015 12:44 11/05/2015

1100 JLS

1239

Project Name: OCONOMOWOC ELECTROPLATING

Log-In Date / Time / By:

11/05/2015

JLS

Project Phase:

Project #:

117-7413001.01

Υ

PM: **PML**

Coolers: 5691

Custody Seals Present: Y

Temperature: COC Present:?

2.9 C Complete? On Ice: Υ

Numbers:

Seal Intact? Ship Method:

FEDEX EXPRESS

DATED AND SIGNED

Adequate Packaging: Y

Tracking Number:

774904985656

Temp Blank Enclosed?

Υ

Notes: SAMPLES RECEIVED IN GOOD CONDITION ON ICE

NO CUSTODY SEALS PRESENT

Sample ID / Descrip	tion Container Type	Cond. Code pH OK?/Filtered?	Tests
6 53981 MW-103E			
	UNPRES PL	1 /	ALK, Anions
	Total # of Conta	iners of Type (UNPRES PL) = 1	
6 53981 MW-103E)		
	VOA HCL	1 /	GAS,VOC
	VOA HCL	1 /	GAS,VOC
	VOA HCL	1 /	GAS,VOC
	VOA HCL	1 /	GAS,VOC
	VOA HCL	1 /	GAS,VOC
	VOA HCL	1 /	GAS, VOC
	Total # of Conta	iners of Type (VOA HCL) = 6	•
653981 MW-103E)		
	HNO3	1 Y /	ICP
	Total # of Conta	iners of Type (HNO3) = 1	
653981 MW-103E)		
	H2SO4 PL	1 Y /	TOC
	Total # of Conta	iners of Type (H2SO4 PL) = 1	
Sample ID / Descrip	tion Container Type	Cond. Code pH OK?/Filtered?	Tests
653982 MW-103E)		
	HNO3	1 Y /	ICP
	Total # of Conta	iners of Type (HNO3) = 1	

115214

		UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
653988	MW-103D DUP	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
653988	MW-103D DUP	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
553988	MW-103D DUP	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	тос
Sample ID	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
53989	MW-103D DUP	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
ample II	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
53992	MW-103S	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
53992	MW-103S	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
53992	MW-103S	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
53992	MW-103S	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	TOC
ample II	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
553995	MW-103S	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP

Sample ID / De	scription	Container Type	Cond. Code	pH OK?/Filtered?	Tests
653997 OW	-06	UNPRES PL Total # of Containers	1 s of Type (<i>U</i>	(NPRES PL) = 1	ALK,Anions
653997 OW	-06	VOA HCL VOA HCL	1	/	GAS,VOC GAS,VOC
		VOA HCL VOA HCL VOA HCL VOA HCL Total # of Containers	1 1 1 1	OA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC
653997 OW	-06				
		HNO3 Total # of Containers	of Type (H	(NO3) = 1	ICP
653997 OW	-06	H2SO4 PL Total # of Containers	1 s of Type (<i>H</i>	Y / (2SO4 PL) = 1	TOC
Sample ID / De	scription	Container Type	Cond. Code	pH OK?/Filtered?	Tests
6 53998 OW	-06	HNO3 Total # of Containers	1 s of Type (<i>H</i>	Y / NO3) = 1	ICP
Sample ID / De	scription	Container Type	Cond. Code	pH OK?/Filtered?	Tests
653999 MW	-2D	UNPRES PL Total # of Containers	1 s of Type (<i>U</i>	/ INPRES PL) = 1	ALK,Anions
653999 MW	-2D	VOA HCL VOA HCL VOA HCL VOA HCL VOA HCL VOA HCL Total # of Containers	1 1 1 1 1 1 s of Type (V	/ / / / OA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
653999 MW	-2D	HNO3 Total # of Containers	1 s of Type (<i>H</i>	Y / NO3) = 1	ICP
653999 MW	-2D	H2SO4 PL Total # of Containers	1 s of Type (<i>H</i>	Y / (2SO4 PL) = 1	TOC

Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
654000 M	MW-2D	HNO3 Total # of Containers	of Type (<i>H</i>	Y / NO3) = 1	ICP
Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
654001 N	MW-3D	UNPRES PL Total # of Containers	of Type (<i>U</i>	NPRES PL) = 1	ALK,Anions
654001 N	MW-3D	VOA HCL VOA HCL VOA HCL VOA HCL VOA HCL VOA HCL Total # of Containers	1 1 1 1 1 of Type (<i>V</i>	/ / / / OA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
654001 N	MW-3D	HNO3 Total # of Containers	of Type (H	Y / NO3) = 1	ICP
654001 N	MW-3D	H2SO4 PL Total # of Containers	of Type (H	Y / 2SO4 PL) = 1	TOC
Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
654002 N	MW-3D	HNO3 Total # of Containers	of Type (H	Y / NO3) = 1	ICP
Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
654003 N	MW-14DR	UNPRES PL Total # of Containers	of Type (<i>U</i>	NPRES PL) = 1	ALK,Anions
654003 N	MW-14DR	VOA HCL VOA HCL VOA HCL VOA HCL VOA HCL VOA HCL Total # of Containers	1 1 1 1 1 of Type (V) 	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
654003 N	MW-14DR	HNO3 Total # of Containers	of Type (H	Y / NO3) = 1	ICP

654003	MW-14DR		
		H2SO4 PL 1 Y /	TOC
		Total # of Containers of Type $(H2SO4 PL) = 1$	
ample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
554004	MW-14DR	HNO3 1 Y /	ICP
		Total # of Containers of Type (HNO3) = 1	ICF
		Total # of Containers of Type (Theos) = 1	
Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
	, 2000 p 0		
554005	MW-4S		
		UNPRES PL 1 /	ALK, Anions
		Total # of Containers of Type $(UNPRES PL) = 1$, -
554005	MW-4S		
	-	VOA HCL 1 /	GAS,VOC
		VOA HCL 1 /	GAS,VOC
		VOA HCL 1 /	GAS,VOC GAS,VOC
		VOA HCL 1 /	GAS,VOC
		VOA HCL 1 /	GAS,VOC
		VOA HCL 1 /	GAS,VOC
		Total # of Containers of Type $(VOA\ HCL) = 6$	
		(10.11.02)	
54005	MW-4S		
	-	HNO3 1 Y /	ICP
		Total # of Containers of Type (HNO3) = 1	101
		Total # of Containers of Type (Theos) = 1	
554005	MW-4S		
)J-100J	10100-40	H2SO4 PL 1 Y /	TOC
		Total # of Containers of Type (H2SO4 PL) = 1	. 33
		Total # of Containers of Type (H2304 FL) = 1	
Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
	,	,	
554006	MW-4S		
		HNO3 1 Y /	ICP
		Total # of Containers of Type (HNO3) = 1	
3ample II	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
NF 400=	NN/ 40:5		
654007	MW-101B	UNPRES PL 1 /	ALK,Anions
		Total # of Containers of Type (UNPRES PL) = 1	,
		Total # Of Containers of Type (UNPRES PL) = 1	
54007	MW-101B		
		VOA HCL 1 /	GAS,VOC
		VOA HCL 1 /	GAS,VOC
		VOA HCL 1 /	GAS,VOC
		VOA HCL 1 /	GAS,VOC
		VOA HCL 1 /	GAS,VOC
		VOA HCL 1 /	GAS,VOC
		Total # of Containers of Type (VOA HCL) = 6	· ·
		Total # Of Containers of Type (VOA HOL) = 0	

1011		
MW-101B	HNO3 1 Y / Total # of Containers of Type $(HNO3) = 1$	ICP
MW-101B	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	TOC
) / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
MW-101B	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
) / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
MW-101S	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
MW-101S	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
MW-101S	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
MW-101S	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	TOC
) / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
MW-101S	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
) / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
PW-03	VOA HCL 1 / VOA HCL 1 / VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 3	VOC VOC VOC
	MW-101S MW-101S MW-101S MW-101S MW-101S MW-101S	HNO3

Sample ID / Description	on Container Type	Cond. Code	pH OK?/Filtered?	Tests	
654024 TB-2					
	Trip Blank	1	/	VOC	
	Trip Blank	1	/	VOC	
	Total # of Contain	ners of Type (<i>Tr</i>	ip Blank) = 2		

Condition CodeCondition Description1Sample Received OK

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ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



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ANALYTICAL REPORT

TETRA TECH
MARK MANTHEY

175 N CORPORATE DRIVE

SUITE 100

BROOKFIELD, WI 53045

Project Name: OCONOMOWOC ELECTROPLATING

Project Phase: Arrival Temperature: See COC

Contract #: 2747 Report Date: 11/23/2015
Project #: 117-7413001.01 Date Received: 11/6/2015

Folder #: 115244 Reprint Date: 12/4/2015

Purchase Order #:

T LAB Sample#: 654727 Sample Description: MW-16S							License/We	ell #: 4189/026	Sample	d: 11/5/2015 0905
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time		Method
Field Results										
Conductivity (Field)	2510	umhos/cm	N/A	N/A	1			12/4/2015 12	:30 PML	
Dissolved Oxygen (Field)	0.36	mg/L	N/A	N/A	1			12/4/2015 12	:30 PML	
pH (Field)	6.48	S.U.	N/A	N/A	1			12/4/2015 12	:30 PML	
Temperature (Field)	13.53	Deg. C	N/A	N/A	1			12/4/2015 12	:30 PML	
Depth to Groundwater (Field)	3.08	Feet	N/A	N/A	1			12/4/2015 12	:30 PML	
Groundwater Elevation (Field)	844.82	Feet MSL	N/A	N/A	1			12/4/2015 12	:30 PML	
Turbidity (Field)	11.4		N/A	N/A	1			12/4/2015 12	:30 PML	
OX/REDOX (Field)	-80	MV	N/A	N/A	1			12/4/2015 12	:30 PML	
Inorganic Results										
Alkalinity Total	720	mg/L	5.0	18	1			11/9/2015 14	:35 MEF	EPA 310.2
Total Chloride	230	mg/L	10	35	10			11/9/2015 14	:24 JJF	EPA 9056A
Total Sulfate	790	mg/L	10	34	10			11/9/2015 14	:24 JJF	EPA 9056A
Total Organic Carbon	3.1	mg/L	0.40	1.4	1			11/10/2015 18	:35 JJF	EPA 9060A

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

Metals Results

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115244

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	lyst	Method
Total Iron	6.35	mg/L	0.020	0.065	1		11/16/2015 12:00	11/17/2015 18:51	NAH	EPA 6010C
Total Manganese	76.3	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 18:51	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 12:49	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 12:49	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 12:49	BMS	Mod RSK 175
Methane	13	ug/L	0.40	1.4	1		11/11/2015 07:30	11/11/2015 12:49	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<2.5	ug/L	2.5	9.0	50			11/7/2015 17:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<3.0	ug/L	3.0	11	50			11/7/2015 17:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	3.3	50			11/7/2015 17:43	RLD	EPA 8260C
1,1,2-Trichloroethane	<2.5	ug/L	2.5	8.5	50			11/7/2015 17:43	RLD	EPA 8260C
1,1-Dichloroethane	<3.0	ug/L	3.0	9.5	50			11/7/2015 17:43	RLD	EPA 8260C
1,1-Dichloroethene	<3.5	ug/L	3.5	12	50			11/7/2015 17:43	RLD	EPA 8260C
1,1-Dichloropropene	<3.0	ug/L	3.0	9.5	50			11/7/2015 17:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.5	ug/L	2.5	8.0	50			11/7/2015 17:43	RLD	EPA 8260C
1,2,3-Trichloropropane	<2.0	ug/L	2.0	6.5	50			11/7/2015 17:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.0	ug/L	2.0	6.5	50			11/7/2015 17:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.5	ug/L	2.5	8.5	50			11/7/2015 17:43	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.5	ug/L	1.5	5.0	50			11/7/2015 17:43	RLD	EPA 8260C
1,2-Dibromoethane	<2.0	ug/L	2.0	7.0	50			11/7/2015 17:43	RLD	EPA 8260C
1,2-Dichlorobenzene	<3.0	ug/L	3.0	9.5	50			11/7/2015 17:43	RLD	EPA 8260C
1,2-Dichloroethane	3.3	ug/L	2.0 *	7.0	50			11/7/2015 17:43	RLD	EPA 8260C
1,2-Dichloropropane	<3.0	ug/L	3.0	10	50			11/7/2015 17:43	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<3.0	ug/L	3.0	10	50			11/7/2015 17:43	RLD	EPA 8260C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115244

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
1,3-Dichlorobenzene	<3.0	ug/L	3.0	11	50			11/7/2015 17:43	RLD	EPA 8260C
1,3-Dichloropropane	<2.0	ug/L	2.0	6.5	50			11/7/2015 17:43	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.5	ug/L	2.5	8.0	50			11/7/2015 17:43	RLD	EPA 8260C
2,2-Dichloropropane	<2.0	ug/L	2.0	6.0	50			11/7/2015 17:43	RLD	EPA 8260C
2-Butanone	<40	ug/L	40	140	50			11/7/2015 17:43	RLD	EPA 8260C
2-Chlorotoluene	<3.0	ug/L	3.0	9.5	50			11/7/2015 17:43	RLD	EPA 8260C
2-Hexanone	<20	ug/L	20	70	50			11/7/2015 17:43	RLD	EPA 8260C
4-Chlorotoluene	<2.5	ug/L	2.5	9.0	50			11/7/2015 17:43	RLD	EPA 8260C
4-Methyl-2-pentanone	<20	ug/L	20	70	50			11/7/2015 17:43	RLD	EPA 8260C
Acetone	<45	ug/L	45	160	50			11/7/2015 17:43	RLD	EPA 8260C
Benzene	<3.0	ug/L	3.0	9.0	50			11/7/2015 17:43	RLD	EPA 8260C
Bromobenzene	<2.0	ug/L	2.0	7.0	50			11/7/2015 17:43	RLD	EPA 8260C
Bromochloromethane	<0.85	ug/L	0.85	2.9	50			11/7/2015 17:43	RLD	EPA 8260C
Bromodichloromethane	<0.85	ug/L	0.85	2.9	50			11/7/2015 17:43	RLD	EPA 8260C
Bromoform	<0.90	ug/L	0.90	3.0	50			11/7/2015 17:43	RLD	EPA 8260C
Bromomethane	<4.5	ug/L	4.5	15	50			11/7/2015 17:43	RLD	EPA 8260C
Carbon disulfide	<5.5	ug/L	5.5	19	50			11/7/2015 17:43	RLD	EPA 8260C
Carbon tetrachloride	<3.0	ug/L	3.0	10	50			11/7/2015 17:43	RLD	EPA 8260C
Chlorobenzene	<2.0	ug/L	2.0	7.0	50			11/7/2015 17:43	RLD	EPA 8260C
Chloroethane	<3.0	ug/L	3.0	11	50			11/7/2015 17:43	RLD	EPA 8260C
Chloroform	<3.0	ug/L	3.0	10	50			11/7/2015 17:43	RLD	EPA 8260C
Chloromethane	<2.5	ug/L	2.5	9.0	50			11/7/2015 17:43	RLD	EPA 8260C
cis-1,2-Dichloroethene	1000	ug/L	12	42	200			11/8/2015 12:51	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.75	ug/L	0.75	2.5	50			11/7/2015 17:43	RLD	EPA 8260C
Dibromochloromethane	<0.80	ug/L	0.80	2.7	50			11/7/2015 17:43	RLD	EPA 8260C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115244

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Dibromomethane	<3.0	ug/L	3.0	9.5	50			11/7/2015 17:43 RLD	EPA 8260C
Dichlorodifluoromethane	<3.0	ug/L	3.0	9.5	50			11/7/2015 17:43 RLD	EPA 8260C
Diisopropyl ether	<2.0	ug/L	2.0	7.5	50			11/7/2015 17:43 RLD	EPA 8260C
Ethylbenzene	<3.0	ug/L	3.0	11	50			11/7/2015 17:43 RLD	EPA 8260C
Hexachlorobutadiene	<3.5	ug/L	3.5	12	50			11/7/2015 17:43 RLD	EPA 8260C
sopropylbenzene	<2.5	ug/L	2.5	8.5	50			11/7/2015 17:43 RLD	EPA 8260C
n & p-Xylene	<6.0	ug/L	6.0	20	50			11/7/2015 17:43 RLD	EPA 8260C
Methyl tert-butyl ether	<2.0	ug/L	2.0	7.5	50			11/7/2015 17:43 RLD	EPA 8260C
Methylene chloride	<3.0	ug/L	3.0	11	50			11/7/2015 17:43 RLD	EPA 8260C
-Butylbenzene	<2.5	ug/L	2.5	8.5	50			11/7/2015 17:43 RLD	EPA 8260C
-Propylbenzene	<2.5	ug/L	2.5	8.0	50			11/7/2015 17:43 RLD	EPA 8260C
laphthalene	<2.5	ug/L	2.5	9.0	50			11/7/2015 17:43 RLD	EPA 8260C
-Xylene	<2.5	ug/L	2.5	8.0	50			11/7/2015 17:43 RLD	EPA 8260C
-Isopropyltoluene	<3.0	ug/L	3.0	11	50			11/7/2015 17:43 RLD	EPA 8260C
ec-Butylbenzene	<2.5	ug/L	2.5	9.0	50			11/7/2015 17:43 RLD	EPA 8260C
Styrene	<2.5	ug/L	2.5	7.5	50			11/7/2015 17:43 RLD	EPA 8260C
ert-Butylbenzene	<3.0	ug/L	3.0	9.5	50			11/7/2015 17:43 RLD	EPA 8260C
etrachloroethene	<3.0	ug/L	3.0	10	50			11/7/2015 17:43 RLD	EPA 8260C
etrahydrofuran	<30	ug/L	30	110	50			11/7/2015 17:43 RLD	EPA 8260C
oluene	<3.0	ug/L	3.0	11	50			11/7/2015 17:43 RLD	EPA 8260C
rans-1,2-Dichloroethene	32	ug/L	3.0	10	50			11/7/2015 17:43 RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.70	ug/L	0.70	2.4	50			11/7/2015 17:43 RLD	EPA 8260C
richloroethene	<1.5	ug/L	1.5	5.0	50			11/7/2015 17:43 RLD	EPA 8260C
richlorofluoromethane	<2.5	ug/L	2.5	9.0	50			11/7/2015 17:43 RLD	EPA 8260C
inyl acetate	<25	ug/L	25	80	50			11/7/2015 17:43 RLD	EPA 8260C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115244

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CT LAB Sample#: 654727 Sample	e Description: MW-1	6S					License/	Well #: 4189/026 Sampled: 11/5/2015 09
								·
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Vinyl chloride	58	ug/L	0.80	2.6	50			11/7/2015 17:43 RLD EPA 8260C
CT LAB Sample#: 654738 Sample	e Description: MW-1	6S					License/	Well #: 4189/026 Sampled: 11/5/2015 09
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Metals Results								
Dissolved Iron	5.42	mg/L	0.010	0.032	1			11/11/2015 18:52 NAH EPA 6010C
Dissolved Manganese	64.8	ug/L	1.6	5.3	1			11/11/2015 18:52 NAH EPA 6010C
CT LAB Sample#: 654739 Sample	e Description: MW-1	2B					License/	Well #: 4189/022 Sampled: 11/5/2015 10
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Field Results								
Conductivity (Field)	650	umhos/cm	N/A	N/A	1			12/4/2015 12:30 PML
Dissolved Oxygen (Field)	0.22	mg/L	N/A	N/A	1			12/4/2015 12:30 PML
pH (Field)	7.79	S.U.	N/A	N/A	1			12/4/2015 12:30 PML
Temperature (Field)	16.61	Deg. C	N/A	N/A	1			12/4/2015 12:30 PML
Depth to Groundwater (Field)	4.11	Feet	N/A	N/A	1			12/4/2015 12:30 PML
Groundwater Elevation (Field)	845.29	Feet MSL	N/A	N/A	1			12/4/2015 12:30 PML
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12:30 PML
OX/REDOX (Field)	-179	MV	N/A	N/A	1			12/4/2015 12:30 PML
CATTEBOX (Ficia)	•							
Inorganic Results								
, ,	320	mg/L	5.0	18	1			11/9/2015 14:51 MER EPA 310.2

delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115244

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Total Sulfate	29	mg/L	2.0	6.8	2			11/9/2015 14:45	JJF	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.4	1			11/10/2015 18:47	JJF	EPA 9060A
Metals Results										
Total Iron	0.355	mg/L	0.020	0.065	1		11/16/2015 12:00	11/17/2015 18:57	NAH	EPA 6010C
Total Manganese	17.7	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 18:57	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/11/2015 07:30	11/11/2015 13:01	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/11/2015 07:30	11/11/2015 13:01	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/11/2015 07:30	11/11/2015 13:01	BMS	Mod RSK 175
Methane	15	ug/L	0.40	1.4	1		11/11/2015 07:30	11/11/2015 13:01	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 13:51	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:51	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 13:51	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 13:51	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:51	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/7/2015 13:51	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:51	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 13:51	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 13:51	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 13:51	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 13:51	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/7/2015 13:51	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 13:51	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:51	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep		alyst	Method
							Date/Time	Date/Time		
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 13:51	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:51	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:51	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:51	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 13:51	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 13:51	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 13:51	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 13:51	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:51	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 13:51	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 13:51	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 13:51	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 13:51	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 13:51	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 13:51	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 13:51	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 13:51	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 13:51	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 13:51	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 13:51	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:51	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 13:51	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:51	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:51	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 13:51	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:51	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 13:51	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 13:51	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:51	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:51	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 13:51	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:51	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 13:51	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 13:51	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 13:51	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 13:51	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:51	RLD	EPA 8260C
n-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			11/7/2015 13:51	RLD	EPA 8260C
n-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 13:51	RLD	EPA 8260C
Naphthalene	< 0.050	ug/L	0.050	0.18	1			11/7/2015 13:51	RLD	EPA 8260C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 13:51	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:51	RLD	EPA 8260C
sec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			11/7/2015 13:51	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/7/2015 13:51	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 13:51	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:51	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 13:51	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 13:51	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 13:51	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/7/2015 13:51	RLD	EPA 8260C

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CT LAB Sample#: 654739 Sample	Description: MW-1	2B					License/Well #: 4189/022 Sampled: 11/5/201
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Method Date/Time Date/Time
Trichloroethene	<0.030	ug/L	0.030	0.10	1		11/7/2015 13:51 RLD EPA 8260
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1		11/7/2015 13:51 RLD EPA 826
Vinyl acetate	<0.50	ug/L	0.50	1.6	1		11/7/2015 13:51 RLD EPA 826
Vinyl chloride	<0.016	ug/L	0.016	0.052	1		11/7/2015 13:51 RLD EPA 8260
CT LAB Sample#: 654740 Sample	Description: MW-1	2B					License/Well #: 4189/022 Sampled: 11/5/201
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Method Date/Time Date/Time
Metals Results							
Dissolved Iron	0.320	mg/L	0.010	0.032	1		11/11/2015 18:58 NAH EPA 6010
Dissolved Manganese	12.9	ug/L	1.6	5.3	1		11/11/2015 18:58 NAH EPA 6010
CT LAB Sample#: 654741 Sample	Description: MW-1	2D					License/Well #: 4189/021 Sampled: 11/5/201
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Method Date/Time Date/Time
Field Results							
Conductivity (Field)	974	umhos/cm	N/A	N/A	1		12/4/2015 12:30 PML
Dissolved Oxygen (Field)	4.79	mg/L	N/A	N/A	1		12/4/2015 12:30 PML
pH (Field)	7.00	S.U.	N/A	N/A	1		12/4/2015 12:30 PML
Temperature (Field)	15.02	Deg. C	N/A	N/A	1		12/4/2015 12:30 PML
Depth to Groundwater (Field)	4.06	Feet	N/A	N/A	1		12/4/2015 12:30 PML
Groundwater Elevation (Field)	844.25	Feet MSL	N/A	N/A	1		12/4/2015 12:30 PML
Turbidity (Field)	2.2		N/A	N/A	1		12/4/2015 12:30 PML
OX/REDOX (Field)	-88	MV	N/A	N/A	1		12/4/2015 12:30 PML

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	alyst	Method
Inorganic Results										
Alkalinity Total	410	mg/L	5.0	18	1			11/9/2015 14:53	MER	EPA 310.2
Total Chloride	200	mg/L	3.0	11	3			11/9/2015 15:06	JJF	EPA 9056A
Total Sulfate	59	mg/L	3.0	10	3			11/9/2015 15:06	JJF	EPA 9056A
Total Organic Carbon	1.7	mg/L	0.40	1.4	1			11/10/2015 18:58	JJF	EPA 9060A
Metals Results										
Total Iron	1.35	mg/L	0.020	0.065	1		11/16/2015 12:00	11/17/2015 19:02	NAH	EPA 6010C
Total Manganese	39.0	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 19:02	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/12/2015 07:25	11/12/2015 10:34	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/12/2015 07:25	11/12/2015 10:34	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/12/2015 07:25	11/12/2015 10:34	BMS	Mod RSK 175
Methane	27	ug/L	0.80	2.8	2		11/12/2015 07:25	11/12/2015 10:46	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 14:20	RLD	EPA 8260C
1,1,1-Trichloroethane	0.57	ug/L	0.060	0.21	1			11/7/2015 14:20	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 14:20	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 14:20	RLD	EPA 8260C
1,1-Dichloroethane	9.2	ug/L	0.060	0.19	1			11/7/2015 14:20	RLD	EPA 8260C
1,1-Dichloroethene	0.41	ug/L	0.070	0.23	1			11/7/2015 14:20	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 14:20	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 14:20	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 14:20	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 14:20	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 14:20	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/7/2015 14:20 RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 14:20 RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 14:20 RLD	EPA 8260C
1,2-Dichloroethane	0.062	ug/L	0.040 *	0.14	1			11/7/2015 14:20 RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/7/2015 14:20 RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 14:20 RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 14:20 RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 14:20 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 14:20 RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 14:20 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 14:20 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 14:20 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 14:20 RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 14:20 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 14:20 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 14:20 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 14:20 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 14:20 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 14:20 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 14:20 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 14:20 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 14:20 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 14:20 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 14:20 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 14:20 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	nalyst	Method
Chloroethane	0.35	ug/L	0.060	0.21	1			11/7/2015 14:20	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 14:20	RLD	EPA 8260C
Chloromethane	< 0.050	ug/L	0.050	0.18	1			11/7/2015 14:20	RLD	EPA 8260C
cis-1,2-Dichloroethene	6.7	ug/L	0.060	0.21	1			11/7/2015 14:20	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 14:20	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 14:20	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 14:20	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 14:20	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 14:20	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 14:20	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 14:20	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 14:20	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 14:20	RLD	EPA 8260C
Methyl tert-butyl ether	0.47	ug/L	0.040	0.15	1			11/7/2015 14:20	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 14:20	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 14:20	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 14:20	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 14:20	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/7/2015 14:20	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 14:20	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/7/2015 14:20	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/7/2015 14:20	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 14:20	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 14:20	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 14:20	RLD	EPA 8260C

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CT LAB Sample#: 654741 Sample	e Description: MW-1	2D					License/Well	#: 4189/021	Sampled	11/5/2015 1115
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Toluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 14:	20 RLD	EPA 8260C
trans-1,2-Dichloroethene	0.76	ug/L	0.060	0.20	1			11/7/2015 14::	20 RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/7/2015 14:	20 RLD	EPA 8260C
Trichloroethene	0.11	ug/L	0.030	0.10	1			11/7/2015 14:	20 RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 14:	20 RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/7/2015 14:	20 RLD	EPA 8260C
Vinyl chloride	0.91	ug/L	0.016	0.052	1			11/7/2015 14::	20 RLD	EPA 8260C
CT LAB Sample#: 654742 Sample	e Description: MW-1	2D					License/Well	#: 4189/021	Sampled	11/5/2015 1115
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	1.13	mg/L	0.010	0.032	1		1	1/11/2015 19:0	04 NAH	EPA 6010C
Dissolved Manganese	32.7	ug/L	1.6	5.3	1		1	1/11/2015 19:0	04 NAH	EPA 6010C
CT LAB Sample#: 654743 Sample	e Description: MW-1	2S					License/Well	#: 4189/020	Sampled	11/5/2015 1210
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Conductivity (Field)	920	umhos/cm	N/A	N/A	1			12/4/2015 12:	30 PML	
Dissolved Oxygen (Field)	1.12	mg/L	N/A	N/A	1			12/4/2015 12:3	30 PML	
oH (Field)	6.99	S.U.	N/A	N/A	1			12/4/2015 12:3	30 PML	
Temperature (Field)	14.00	Deg. C	N/A	N/A	1			12/4/2015 12:3	30 PML	
Depth to Groundwater (Field)	4.34	Feet	N/A	N/A	1			12/4/2015 12:	30 PML	

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CT LAB Sample#: 654743 Sample Description: MW-12S License/Well #: 4189/020 Sampled: 11/5/2015 1210

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Groundwater Elevation (Field)	844.83	Feet MSL	N/A	N/A	1			12/4/2015 12	30 PML	
Turbidity (Field)	36.6		N/A	N/A	1			12/4/2015 12	30 PML	
OX/REDOX (Field)	-21	MV	N/A	N/A	1			12/4/2015 12	30 PML	
Inorganic Results										
Alkalinity Total	380	mg/L	5.0	18	1			11/9/2015 14	54 MER	EPA 310.2
Total Chloride	180	mg/L	3.0	11	3			11/9/2015 15	27 JJF	EPA 9056A
Total Sulfate	51	mg/L	3.0	10	3			11/9/2015 15	27 JJF	EPA 9056A
Total Organic Carbon	0.89	mg/L	0.40 *	1.4	1			11/10/2015 19	10 JJF	EPA 9060A
Metals Results										
Total Iron	1.19	mg/L	0.020	0.065	1		11/16/2015 12:00	11/17/2015 19	08 NAH	EPA 6010C
Total Manganese	165	ug/L	1.4	4.7	1		11/16/2015 12:00	11/17/2015 19	08 NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/12/2015 07:25	11/12/2015 09	06 BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/12/2015 07:25	11/12/2015 09	06 BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/12/2015 07:25	11/12/2015 09	06 BMS	Mod RSK 175
Methane	7.5	ug/L	0.40	1.4	1		11/12/2015 07:25	11/12/2015 09	06 BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.90	5			11/7/2015 18	12 RLD	EPA 8260C
1,1,1-Trichloroethane	36	ug/L	0.30	1.1	5			11/7/2015 18	12 RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.10	ug/L	0.10	0.33	5			11/7/2015 18	12 RLD	EPA 8260C
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.85	5			11/7/2015 18	12 RLD	EPA 8260C
1,1-Dichloroethane	6.6	ug/L	0.30	0.95	5			11/7/2015 18	12 RLD	EPA 8260C
1,1-Dichloroethene	3.0	ug/L	0.35	1.2	5			11/7/2015 18	12 RLD	EPA 8260C
1,1-Dichloropropene	<0.30	ug/L	0.30	0.95	5			11/7/2015 18	12 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.80	5			11/7/2015 18	12 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	lyst	Method
1,2,3-Trichloropropane	<0.20	ug/L	0.20	0.65	5			11/7/2015 18:12	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.20	ug/L	0.20	0.65	5			11/7/2015 18:12	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.25	ug/L	0.25	0.85	5			11/7/2015 18:12	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.15	ug/L	0.15	0.50	5			11/7/2015 18:12	RLD	EPA 8260C
1,2-Dibromoethane	<0.20	ug/L	0.20	0.70	5			11/7/2015 18:12	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.30	ug/L	0.30	0.95	5			11/7/2015 18:12	RLD	EPA 8260C
1,2-Dichloroethane	<0.20	ug/L	0.20	0.70	5			11/7/2015 18:12	RLD	EPA 8260C
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	5			11/7/2015 18:12	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.0	5			11/7/2015 18:12	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.1	5			11/7/2015 18:12	RLD	EPA 8260C
1,3-Dichloropropane	<0.20	ug/L	0.20	0.65	5			11/7/2015 18:12	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.25	ug/L	0.25	0.80	5			11/7/2015 18:12	RLD	EPA 8260C
2,2-Dichloropropane	<0.20	ug/L	0.20	0.60	5			11/7/2015 18:12	RLD	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	5			11/7/2015 18:12	RLD	EPA 8260C
2-Chlorotoluene	<0.30	ug/L	0.30	0.95	5			11/7/2015 18:12	RLD	EPA 8260C
2-Hexanone	<2.0	ug/L	2.0	7.0	5			11/7/2015 18:12	RLD	EPA 8260C
4-Chlorotoluene	<0.25	ug/L	0.25	0.90	5			11/7/2015 18:12	RLD	EPA 8260C
4-Methyl-2-pentanone	<2.0	ug/L	2.0	7.0	5			11/7/2015 18:12	RLD	EPA 8260C
Acetone	<4.5	ug/L	4.5	16	5			11/7/2015 18:12	RLD	EPA 8260C
Benzene	< 0.30	ug/L	0.30	0.90	5			11/7/2015 18:12	RLD	EPA 8260C
Bromobenzene	<0.20	ug/L	0.20	0.70	5			11/7/2015 18:12	RLD	EPA 8260C
Bromochloromethane	<0.085	ug/L	0.085	0.29	5			11/7/2015 18:12	RLD	EPA 8260C
Bromodichloromethane	<0.085	ug/L	0.085	0.29	5			11/7/2015 18:12	RLD	EPA 8260C
Bromoform	< 0.090	ug/L	0.090	0.30	5			11/7/2015 18:12	RLD	EPA 8260C
Bromomethane	<0.45	ug/L	0.45	1.5	5			11/7/2015 18:12	RLD	EPA 8260C

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Carbon tetrachloride	Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Chlorobenzene	Carbon disulfide	<0.55	ug/L	0.55	1.9	5			11/7/2015 18:12 RLD EPA 8260C
Chloroethane	Carbon tetrachloride	<0.30	ug/L	0.30	1.0	5			11/7/2015 18:12 RLD EPA 8260C
Chloroform Regent Regent <td>Chlorobenzene</td> <td><0.20</td> <td>ug/L</td> <td>0.20</td> <td>0.70</td> <td>5</td> <td></td> <td></td> <td>11/7/2015 18:12 RLD EPA 8260C</td>	Chlorobenzene	<0.20	ug/L	0.20	0.70	5			11/7/2015 18:12 RLD EPA 8260C
Chloromethane <0.25 ug/L 0.25 0.90 5 11/7/2015 8:12 RLD EPA 8260C cis-1,2-Dichloroethene 24 ug/L 0.30 1.1 5 11/7/2015 8:12 RLD EPA 8260C cis-1,3-Dichloropropene <0.075 ug/L 0.075 0.25 5 11/7/2015 18:12 RLD EPA 8260C Dibromomethane <0.080 ug/L 0.30 0.95 5 11/7/2015 18:12 RLD EPA 8260C Dibromomethane <0.030 ug/L 0.30 0.95 5 11/7/2015 18:12 RLD EPA 8260C Dichlorodifluoromethane <0.030 ug/L 0.30 0.95 5 11/7/2015 18:12 RLD EPA 8260C Dichlorodifluoromethane <0.030 ug/L 0.30 0.95 5 11/7/2015 18:12 RLD EPA 8260C Dichlorodifluoromethane <0.030 ug/L 0.30 1.1 5 11/7/2015 RL1	Chloroethane	<0.30	ug/L	0.30	1.1	5			11/7/2015 18:12 RLD EPA 8260C
24 ug/L 0.30 1.1 5 117//2015 18:12 RLD EPA 8260C cis-1,3-Dichloropropene	Chloroform	<0.30	ug/L	0.30	1.0	5			11/7/2015 18:12 RLD EPA 8260C
Section Sect	Chloromethane	<0.25	ug/L	0.25	0.90	5			11/7/2015 18:12 RLD EPA 8260C
Specific control of the control of	cis-1,2-Dichloroethene	24	ug/L	0.30	1.1	5			11/7/2015 18:12 RLD EPA 8260C
Second Percent Perce	cis-1,3-Dichloropropene	< 0.075	ug/L	0.075	0.25	5			11/7/2015 18:12 RLD EPA 8260C
Second control of the control of t	Dibromochloromethane	<0.080	ug/L	0.080	0.27	5			11/7/2015 18:12 RLD EPA 8260C
Disopropyl ether	Dibromomethane	<0.30	ug/L	0.30	0.95	5			11/7/2015 18:12 RLD EPA 8260C
Ethylbenzene	Dichlorodifluoromethane	<0.30	ug/L	0.30	0.95	5			11/7/2015 18:12 RLD EPA 8260C
Hexachlorobutadiene	Diisopropyl ether	<0.20	ug/L	0.20	0.75	5			11/7/2015 18:12 RLD EPA 8260C
Sopropylbenzene	Ethylbenzene	<0.30	ug/L	0.30	1.1	5			11/7/2015 18:12 RLD EPA 8260C
No. 60 N	Hexachlorobutadiene	< 0.35	ug/L	0.35	1.2	5			11/7/2015 18:12 RLD EPA 8260C
Methyl tert-butyl ether	Isopropylbenzene	<0.25	ug/L	0.25	0.85	5			11/7/2015 18:12 RLD EPA 8260C
Methylene chloride	m & p-Xylene	<0.60	ug/L	0.60	2.0	5			11/7/2015 18:12 RLD EPA 8260C
11/7/2015 18:12 RLD EPA 8260C 19-Propylbenzene	Methyl tert-butyl ether	<0.20	ug/L	0.20	0.75	5			11/7/2015 18:12 RLD EPA 8260C
-Propylbenzene	Methylene chloride	<0.30	ug/L	0.30	1.1	5			11/7/2015 18:12 RLD EPA 8260C
Naphthalene <0.25 ug/L 0.25 0.90 5 11/7/2015 18:12 RLD EPA 8260C x-Xylene <0.25 ug/L 0.25 0.80 5 11/7/2015 18:12 RLD EPA 8260C x-Isopropyltoluene <0.30 ug/L 0.30 1.1 5 11/7/2015 18:12 RLD EPA 8260C sec-Butylbenzene <0.25 ug/L 0.25 0.90 5 11/7/2015 18:12 RLD EPA 8260C	n-Butylbenzene	<0.25	ug/L	0.25	0.85	5			11/7/2015 18:12 RLD EPA 8260C
o-Xylene	n-Propylbenzene	<0.25	ug/L	0.25	0.80	5			11/7/2015 18:12 RLD EPA 8260C
co-Isopropyltoluene	Naphthalene	<0.25	ug/L	0.25	0.90	5			11/7/2015 18:12 RLD EPA 8260C
sec-Butylbenzene <0.25 ug/L 0.25 0.90 5 11/7/2015 18:12 RLD EPA 8260C	o-Xylene	<0.25	ug/L	0.25	0.80	5			11/7/2015 18:12 RLD EPA 8260C
	p-Isopropyltoluene	<0.30	ug/L	0.30	1.1	5			11/7/2015 18:12 RLD EPA 8260C
Styrene <0.25 ug/L 0.25 0.75 5 11/7/2015 18:12 RLD EPA 8260C	sec-Butylbenzene	<0.25	ug/L	0.25	0.90	5			11/7/2015 18:12 RLD EPA 8260C
	Styrene	<0.25	ug/L	0.25	0.75	5			11/7/2015 18:12 RLD EPA 8260C

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ert-Butylbenzene	<0.30	ug/L	0.30	0.95	5			11/7/2015 18:12 RLD E	EPA 8260C
etrachloroethene	<0.30	ug/L	0.30	1.0	5			11/7/2015 18:12 RLD E	EPA 8260C
etrahydrofuran	<3.0	ug/L	3.0	11	5			11/7/2015 18:12 RLD E	EPA 8260C
oluene	<0.30	ug/L	0.30	1.1	5			11/7/2015 18:12 RLD E	EPA 8260C
ans-1,2-Dichloroethene	7.1	ug/L	0.30	1.0	5			11/7/2015 18:12 RLD E	EPA 8260C
ans-1,3-Dichloropropene	<0.070	ug/L	0.070	0.24	5			11/7/2015 18:12 RLD E	PA 8260C
richloroethene	54	ug/L	0.15	0.50	5			11/7/2015 18:12 RLD E	PA 8260C
richlorofluoromethane	<0.25	ug/L	0.25	0.90	5			11/7/2015 18:12 RLD E	PA 8260C
inyl acetate	<2.5	ug/L	2.5	8.0	5			11/7/2015 18:12 RLD E	EPA 8260C
inyl chloride	1.9	ug/L	0.080	0.26	5			11/7/2015 18:12 RLD E	EPA 8260C
CT LAB Sample#: 654744 Sam	ple Description: MW-1	2S					License/V	Vell #: 4189/020 Sampled:	11/5/2015 12
					D.1	Qualifier	D		
nalyte	Result	Units	LOD	LOQ	Dilution	Quaimer	Prep Date/Time	Analysis Analyst Date/Time	Method
	Result	Units	LOD	LOQ	Dilution	Quaimer			Method
etals Results	0.109	units mg/L	0.010	0.032	Dilution	Quaimer		Date/Time	Method EPA 6010C
letals Results						Quainler		Date/Time 11/11/2015 19:09 NAH E	
letals Results issolved Iron issolved Manganese	0.109	mg/L ug/L	0.010	0.032	1	Quainler	Date/Time	11/11/2015 19:09 NAH E	EPA 6010C EPA 6010C
Inalyte Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 654745 Sam	0.109 132	mg/L ug/L	0.010	0.032	1	Qualifier	Date/Time	11/11/2015 19:09 NAH E	EPA 6010C
letals Results bissolved Iron bissolved Manganese CT LAB Sample#: 654745 Sam	0.109 132 ple Description: TW-2	mg/L ug/L 021	0.010 1.6	0.032 5.3	1		Date/Time License/V	Date/Time 11/11/2015 19:09 NAH E 11/11/2015 19:09 NAH E Vell #: 4189/048 Sampled: Analysis Analyst	EPA 6010C EPA 6010C 11/5/2015 14:
letals Results bissolved Iron bissolved Manganese CT LAB Sample#: 654745 Sam	0.109 132 ple Description: TW-2	mg/L ug/L 021	0.010 1.6	0.032 5.3	1		Date/Time License/V	Date/Time 11/11/2015 19:09 NAH E 11/11/2015 19:09 NAH E Vell #: 4189/048 Sampled: Analysis Analyst	EPA 6010C EPA 6010C 11/5/2015 14

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	License/Well #: 4189/048	Sampled: 11/5/2015 1420
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
pH (Field)	6.86	S.U.	N/A	N/A	1			12/4/2015 12:3	0 PML	
Temperature (Field)	14.54	Deg. C	N/A	N/A	1			12/4/2015 12:3	0 PML	
Depth to Groundwater (Field)	5.80	Feet	N/A	N/A	1			12/4/2015 12:3	0 PML	
Groundwater Elevation (Field)	845.33	Feet MSL	N/A	N/A	1			12/4/2015 12:3	0 PML	
Turbidity (Field)	12.2		N/A	N/A	1			12/4/2015 12:3	0 PML	
OX/REDOX (Field)	-10	MV	N/A	N/A	1			12/4/2015 12:3	0 PML	
Inorganic Results										
Alkalinity Total	350	mg/L	5.0	18	1			11/9/2015 14:5	7 MER	EPA 310.2
Total Chloride	230	mg/L	4.0	14	4			11/9/2015 16:2	9 JJF	EPA 9056A
Total Sulfate	39	mg/L	4.0	14	4			11/9/2015 16:2	9 JJF	EPA 9056A
Total Organic Carbon	0.76	mg/L	0.40 *	1.4	1			11/10/2015 19:2	3 JJF	EPA 9060A
Metals Results										
Total Iron	0.325	mg/L	0.020	0.065	1		11/16/2015 12:00	11/18/2015 10:4	6 NAH	EPA 6010C
Total Manganese	591	ug/L	1.4	4.7	1		11/16/2015 12:00	11/18/2015 10:4	6 NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/12/2015 07:25	11/12/2015 09:1	5 BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/12/2015 07:25	11/12/2015 09:1	5 BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/12/2015 07:25	11/12/2015 09:1	5 BMS	Mod RSK 175
Methane	2.6	ug/L	0.40	1.4	1		11/12/2015 07:25	11/12/2015 09:1	5 BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 14:4	9 RLD	EPA 8260C
1,1,1-Trichloroethane	0.27	ug/L	0.060	0.21	1			11/7/2015 14:4	9 RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 14:4	9 RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 14:4	9 RLD	EPA 8260C
1,1-Dichloroethane	0.082	ug/L	0.060 *	0.19	1			11/7/2015 14:4	9 RID	EPA 8260C

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1,1-Dichloroethene	0.072	ug/L	0.070 *	0.23	1			11/7/2015 14:49	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 14:49	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 14:49	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 14:49	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 14:49	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 14:49	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/7/2015 14:49	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 14:49	RLD	EPA 8260C
1,2-Dichlorobenzene	< 0.060	ug/L	0.060	0.19	1			11/7/2015 14:49	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 14:49	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/7/2015 14:49	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 14:49	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 14:49	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 14:49	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 14:49	RLD	EPA 8260C
2,2-Dichloropropane	< 0.040	ug/L	0.040	0.12	1			11/7/2015 14:49	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 14:49	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 14:49	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 14:49	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 14:49	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 14:49	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 14:49	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 14:49	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 14:49	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 14:49	RLD	EPA 8260C

CT LABORATORIES delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep	Analysis Ana	alyst	Method
	Rooult	Oilito			2 iiulioli	qualifici	Date/Time	Date/Time	,	
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 14:49	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 14:49	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 14:49	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 14:49	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 14:49	RLD	EPA 8260C
Chlorobenzene	0.61	ug/L	0.040	0.14	1			11/7/2015 14:49	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 14:49	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 14:49	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 14:49	RLD	EPA 8260C
cis-1,2-Dichloroethene	8.6	ug/L	0.060	0.21	1			11/7/2015 14:49	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 14:49	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 14:49	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 14:49	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 14:49	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 14:49	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 14:49	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 14:49	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 14:49	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 14:49	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 14:49	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 14:49	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 14:49	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 14:49	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 14:49	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/7/2015 14:49	RLD	EPA 8260C

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CT LAB Sample#: 654745 Samp	ole Description: TW-20	021					License/Well #: 4189/048 Sampled: 11/5/2015 142
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Method Date/Time Date/Time
o-Isopropyltoluene	< 0.060	ug/L	0.060	0.21	1		11/7/2015 14:49 RLD EPA 8260C
ec-Butylbenzene	<0.050	ug/L	0.050	0.18	1		11/7/2015 14:49 RLD EPA 8260C
styrene	< 0.050	ug/L	0.050	0.15	1		11/7/2015 14:49 RLD EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1		11/7/2015 14:49 RLD EPA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1		11/7/2015 14:49 RLD EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1		11/7/2015 14:49 RLD EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1		11/7/2015 14:49 RLD EPA 8260C
ans-1,2-Dichloroethene	0.98	ug/L	0.060	0.20	1		11/7/2015 14:49 RLD EPA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1		11/7/2015 14:49 RLD EPA 8260C
richloroethene	11	ug/L	0.030	0.10	1		11/7/2015 14:49 RLD EPA 8260C
richlorofluoromethane	< 0.050	ug/L	0.050	0.18	1		11/7/2015 14:49 RLD EPA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1		11/7/2015 14:49 RLD EPA 8260C
inyl chloride	0.022	ug/L	0.016 *	0.052	1		11/7/2015 14:49 RLD EPA 8260C
CT LAB Sample#: 654746 Samp	ole Description: TW-20	021					License/Well #: 4189/048 Sampled: 11/5/2015 142
nalyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Method Date/Time Date/Time
letals Results							
Dissolved Iron	0.107	mg/L	0.010	0.032	1		11/11/2015 19:15 NAH EPA 6010C
issolved Manganese	515	ug/L	1.6	5.3	1		11/11/2015 19:15 NAH EPA 6010C
CT LAB Sample#: 654747 Samp	ole Description: MW-1	3D					License/Well #: 4189/032 Sampled: 11/5/2015 140
nalyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Method Date/Time Date/Time

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Tim		st Method
Field Results										
Conductivity (Field)	908	umhos/cm	N/A	N/A	1			12/4/2015 1	2:30 PN	1L
Dissolved Oxygen (Field)	0.20	mg/L	N/A	N/A	1			12/4/2015 1	2:30 PN	1L
pH (Field)	7.02	S.U.	N/A	N/A	1			12/4/2015 1	2:30 PN	1L
Temperature (Field)	14.52	Deg. C	N/A	N/A	1			12/4/2015 1	2:30 PN	1L
Depth to Groundwater (Field)	4.82	Feet	N/A	N/A	1			12/4/2015 1	2:30 PM	1L
Groundwater Elevation (Field)	845.20	Feet MSL	N/A	N/A	1			12/4/2015 1	2:30 PN	1L
Turbidity (Field)	2.4		N/A	N/A	1			12/4/2015 1	2:30 PM	1L
OX/REDOX (Field)	-74	MV	N/A	N/A	1			12/4/2015 1	2:30 PM	1L
norganic Results										
Alkalinity Total	380	mg/L	5.0	18	1			11/9/2015 1	4:58 MI	ER EPA 310.2
Total Chloride	180	mg/L	3.0	11	3			11/9/2015 1	6:08 JJ	F EPA 9056A
Total Sulfate	50	mg/L	3.0	10	3			11/9/2015 1	6:08 JJ	F EPA 9056A
Total Organic Carbon	0.45	mg/L	0.40 *	1.4	1			11/10/2015 1	9:34 JJ	F EPA 9060A
Metals Results										
Total Iron	1.21	mg/L	0.020	0.065	1		11/16/2015 12:00	11/18/2015 1	0:51 NA	H EPA 6010C
Total Manganese	38.6	ug/L	1.4	4.7	1		11/16/2015 12:00	11/18/2015 1	0:51 NA	AH EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/12/2015 07:25	11/12/2015 1	0:55 BN	MS Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/12/2015 07:25	11/12/2015 1	0:55 BN	IS Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/12/2015 07:25	11/12/2015 1	0:55 BN	IS Mod RSK 175
Methane	20	ug/L	0.80	2.8	2		11/12/2015 07:25	11/12/2015 1	1:04 BN	MS Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 1	5:19 RI	D EPA 8260C
1,1,1-Trichloroethane	< 0.060	ug/L	0.060	0.21	1			11/7/2015 1	5:19 RI	D EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep	Analysis Analys	t Method
			-				Date/Time	Date/Time	
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 15:19 RLI	D EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 15:19 RLI	D EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:19 RLI	D EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/7/2015 15:19 RLI	D EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:19 RLI	D EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 15:19 RLI	D EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 15:19 RLI	D EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 15:19 RLI	D EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 15:19 RLI	D EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/7/2015 15:19 RLI	D EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 15:19 RLI	D EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:19 RLI	D EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 15:19 RLI	D EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/7/2015 15:19 RLI	D EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 15:19 RLI	D EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:19 RLI	D EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 15:19 RLI	D EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 15:19 RLI	D EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 15:19 RLI	D EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 15:19 RLI	D EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:19 RLI	D EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 15:19 RLI	D EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 15:19 RLI	D EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 15:19 RLI	D EPA 8260C
Acetone	< 0.90	ug/L	0.90	3.1	1			11/7/2015 15:19 RLI	D EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 15:19 RI	D EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 15:19 RI	D EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 15:19 RI	D EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 15:19 RI	D EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 15:19 RI	D EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 15:19 RI	D EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 15:19 RI	D EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 15:19 RI	D EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 15:19 RI	D EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:19 RI	D EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 15:19 RI	D EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 15:19 RI	D EPA 8260C
cis-1,2-Dichloroethene	1.7	ug/L	0.060	0.21	1			11/7/2015 15:19 RI	D EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 15:19 RI	D EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 15:19 RI	D EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:19 RI	D EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:19 RI	D EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 15:19 RI	D EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:19 RI	D EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 15:19 RI	D EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 15:19 RI	D EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 15:19 RI	D EPA 8260C
Methyl tert-butyl ether	0.49	ug/L	0.040	0.15	1			11/7/2015 15:19 RI	D EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:19 RI	D EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 15:19 RI	D EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 15:19	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 15:19	RLD	EPA 8260C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 15:19	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:19	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/7/2015 15:19	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/7/2015 15:19	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:19	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 15:19	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 15:19	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:19	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 15:19	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/7/2015 15:19	RLD	EPA 8260C
Trichloroethene	0.045	ug/L	0.030 *	0.10	1			11/7/2015 15:19	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 15:19	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/7/2015 15:19	RLD	EPA 8260C
Vinyl chloride	0.052	ug/L	0.016	0.052	1			11/7/2015 15:19	RLD	EPA 8260C

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst Metho	od
Metals Results										
Dissolved Iron	0.801	mg/L	0.010	0.032	1			11/11/2015 19:21	NAH EPA 60°	10C
Dissolved Manganese	34.3	ug/L	1.6	5.3	1			11/11/2015 19:21	NAH EPA 60	10C

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CT LAB Sample#: 654749 Sample Description: MW-13S	License/Well #: 4189/023	Sampled: 11/5/2015 1440
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	Analyst	Method
Field Results										
Conductivity (Field)	706	umhos/cm	N/A	N/A	1			12/4/2015 12:30	PML	
Dissolved Oxygen (Field)	1.87	mg/L	N/A	N/A	1			12/4/2015 12:30	PML	
pH (Field)	7.08	S.U.	N/A	N/A	1			12/4/2015 12:30	PML	
Temperature (Field)	14.19	Deg. C	N/A	N/A	1			12/4/2015 12:30	PML	
Depth to Groundwater (Field)	5.96	Feet	N/A	N/A	1			12/4/2015 12:30	PML	
Groundwater Elevation (Field)	844.95	Feet MSL	N/A	N/A	1			12/4/2015 12:30	PML	
Turbidity (Field)	9.0		N/A	N/A	1			12/4/2015 12:30	PML	
OX/REDOX (Field)	22	MV	N/A	N/A	1			12/4/2015 12:30	PML	
norganic Results										
Alkalinity Total	320	mg/L	5.0	18	1			11/9/2015 14:59	MER	EPA 310.2
Total Chloride	140	mg/L	2.0	7.0	2			11/9/2015 16:56	JJF	EPA 9056A
Total Sulfate	16	mg/L	2.0	6.8	2			11/9/2015 16:56	JJF	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.4	1			11/10/2015 19:45	JJF	EPA 9060A
Metals Results										
Total Iron	0.734	mg/L	0.020	0.065	1		11/16/2015 12:00	11/18/2015 10:57	NAH	EPA 6010C
Total Manganese	24.8	ug/L	1.4	4.7	1		11/16/2015 12:00	11/18/2015 10:57	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/12/2015 07:25	11/12/2015 09:24	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/12/2015 07:25	11/12/2015 09:24	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/12/2015 07:25	11/12/2015 09:24	BMS	Mod RSK 175
Methane	<0.40	ug/L	0.40	1.4	1		11/12/2015 07:25	11/12/2015 09:24	BMS	Mod RSK 175
,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 15:47	RLD	EPA 8260C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
1,1,1-Trichloroethane	0.10	ug/L	0.060 *	0.21	1			11/7/2015 15:47	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 15:47	RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			11/7/2015 15:47	RLD	EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			11/7/2015 15:47	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/7/2015 15:47	RLD	EPA 8260C
1,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			11/7/2015 15:47	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 15:47	RLD	EPA 8260C
1,2,3-Trichloropropane	< 0.040	ug/L	0.040	0.13	1			11/7/2015 15:47	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 15:47	RLD	EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/7/2015 15:47	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/7/2015 15:47	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 15:47	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:47	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 15:47	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/7/2015 15:47	RLD	EPA 8260C
1,3,5-Trimethylbenzene	< 0.060	ug/L	0.060	0.20	1			11/7/2015 15:47	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:47	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 15:47	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 15:47	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 15:47	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 15:47	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:47	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 15:47	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 15:47	RLD	EPA 8260C
4-Methyl-2-pentanone	< 0.40	ug/L	0.40	1.4	1			11/7/2015 15:47	RLD	EPA 8260C

CT LABORATORIES delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 15:47	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 15:47	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 15:47	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 15:47	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 15:47	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 15:47	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 15:47	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 15:47	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 15:47	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 15:47	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:47	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 15:47	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 15:47	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.16	ug/L	0.060 *	0.21	1			11/7/2015 15:47	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 15:47	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 15:47	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:47	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:47	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 15:47	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:47	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 15:47	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 15:47	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 15:47	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 15:47	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:47	RLD	EPA 8260C

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TETRA TECH

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CT LAB Sample#: 654749	Sample Description: MW-13S	License/Well #: 4189/023	Sampled: 11/5/2015 1440

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 15:47	RLD	EPA 8260C
n-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 15:47	RLD	EPA 8260C
Naphthalene	< 0.050	ug/L	0.050	0.18	1			11/7/2015 15:47	RLD	EPA 8260C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 15:47	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:47	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/7/2015 15:47	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/7/2015 15:47	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 15:47	RLD	EPA 8260C
Tetrachloroethene	0.064	ug/L	0.060 *	0.20	1			11/7/2015 15:47	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 15:47	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 15:47	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 15:47	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/7/2015 15:47	RLD	EPA 8260C
Trichloroethene	0.13	ug/L	0.030	0.10	1			11/7/2015 15:47	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 15:47	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/7/2015 15:47	RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/7/2015 15:47	RLD	EPA 8260C

CT LAB Sample#: 654750 Sample Description: MW-13S License/Well #: 4189/023 Sampled: 11/5/2015 1440

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	0.111	mg/L	0.010	0.032	1			11/11/2015 19:27	7 NAH	EPA 6010C
Dissolved Manganese	13.4	ug/L	1.6	5.3	1			11/11/2015 19:27	7 NAH	EPA 6010C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	Method
Organic Results									
,1,1,2-Tetrachloroethane	< 0.050	ug/L	0.050	0.18	1			11/7/2015 16:17 RLI	EPA 8260C
,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:17 RLI	D EPA 8260C
,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 16:17 RLI	D EPA 8260C
,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			11/7/2015 16:17 RLI	D EPA 8260C
,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:17 RLI	D EPA 8260C
,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			11/7/2015 16:17 RLI	D EPA 8260C
,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:17 RLI	D EPA 8260C
,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 16:17 RLI	D EPA 8260C
,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 16:17 RLI	D EPA 8260C
,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 16:17 RLI	D EPA 8260C
,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/7/2015 16:17 RLI	EPA 8260C
,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/7/2015 16:17 RLI	D EPA 8260C
,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 16:17 RLI	EPA 8260C
,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:17 RLI	D EPA 8260C
,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 16:17 RLI	D EPA 8260C
,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/7/2015 16:17 RLI	D EPA 8260C
,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 16:17 RLI	EPA 8260C
,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:17 RLI	D EPA 8260C
,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 16:17 RLI	EPA 8260C
,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 16:17 RLI	EPA 8260C
,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 16:17 RLI	EPA 8260C
-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 16:17 RLI	D EPA 8260C
-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:17 RLI	D EPA 8260C
-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 16:17 RLI	D EPA 8260C

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TETRA TECH

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 16:17 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 16:17 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 16:17 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 16:17 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 16:17 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 16:17 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 16:17 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 16:17 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 16:17 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 16:17 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 16:17 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 16:17 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:17 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 16:17 RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 16:17 RLD	EPA 8260C
cis-1,2-Dichloroethene	2.3	ug/L	0.060	0.21	1			11/7/2015 16:17 RLD	EPA 8260C
sis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 16:17 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 16:17 RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:17 RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:17 RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 16:17 RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:17 RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 16:17 RLD	EPA 8260C
sopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 16:17 RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 16:17 RLD	EPA 8260C

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TETRA TECH

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CT LAB Sample#: 654751	Sample Description: PW-08	License/Well #: 4189/055	Sampled: 11/5/2015 1355
CT LAB Sample#: 654751	Sample Description: PW-08	License/Well #: 4189/055	Sampled: 11/5/2015 1355

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Methyl tert-butyl ether	0.57	ug/L	0.040	0.15	1			11/7/2015 16:1	7 RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:1	7 RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 16:1	7 RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 16:1	7 RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 16:1	7 RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/7/2015 16:1	7 RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:1	7 RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/7/2015 16:1	7 RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/7/2015 16:1	7 RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:1	7 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 16:1	7 RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 16:1	7 RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:1	7 RLD	EPA 8260C
trans-1,2-Dichloroethene	0.10	ug/L	0.060 *	0.20	1			11/7/2015 16:1	7 RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/7/2015 16:1	7 RLD	EPA 8260C
Trichloroethene	0.069	ug/L	0.030 *	0.10	1			11/7/2015 16:1	7 RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 16:1	7 RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/7/2015 16:1	7 RLD	EPA 8260C
Vinyl chloride	0.043	ug/L	0.016 *	0.052	1			11/7/2015 16:1	7 RLD	EPA 8260C
CT LAB Sample#: 654752 Samp	ole Description: PW-1	0					License/W	/ell #: 4189/057	Sampled:	11/5/2015 1435
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

Organic Results

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 16:46	RLD	EPA 8260C
1,1,1-Trichloroethane	< 0.060	ug/L	0.060	0.21	1			11/7/2015 16:46	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 16:46	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 16:46	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:46	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/7/2015 16:46	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:46	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 16:46	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 16:46	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 16:46	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 16:46	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/7/2015 16:46	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 16:46	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:46	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 16:46	RLD	EPA 8260C
1,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			11/7/2015 16:46	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 16:46	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:46	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 16:46	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 16:46	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 16:46	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 16:46	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:46	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 16:46	RLD	EPA 8260C
4-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			11/7/2015 16:46	RLD	EPA 8260C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 16:46	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 16:46	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 16:46	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 16:46	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 16:46	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 16:46	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 16:46	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 16:46	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 16:46	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 16:46	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 16:46	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:46	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 16:46	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 16:46	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.11	ug/L	0.060 *	0.21	1			11/7/2015 16:46	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 16:46	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 16:46	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:46	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:46	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 16:46	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:46	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 16:46	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 16:46	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 16:46	RLD	EPA 8260C
Methyl tert-butyl ether	0.43	ug/L	0.040	0.15	1			11/7/2015 16:46	RLD	EPA 8260C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

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nalyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst l Date/Time	Method
1ethylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:46 RLD E	PA 8260C
-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 16:46 RLD E	PA 8260C
-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 16:46 RLD E	PA 8260C
laphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 16:46 RLD E	PA 8260C
-Xylene	<0.050	ug/L	0.050	0.16	1			11/7/2015 16:46 RLD E	PA 8260C
-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:46 RLD E	PA 8260C
ec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/7/2015 16:46 RLD E	PA 8260C
styrene	<0.050	ug/L	0.050	0.15	1			11/7/2015 16:46 RLD E	PA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 16:46 RLD E	PA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 16:46 RLD E	PA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 16:46 RLD E	PA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 16:46 RLD E	PA 8260C
ans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 16:46 RLD E	PA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/7/2015 16:46 RLD E	PA 8260C
richloroethene	<0.030	ug/L	0.030	0.10	1			11/7/2015 16:46 RLD E	PA 8260C
richlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 16:46 RLD E	PA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1			11/7/2015 16:46 RLD E	PA 8260C
inyl chloride	0.021	ug/L	0.016 *	0.052	1			11/7/2015 16:46 RLD E	PA 8260C
CT LAB Sample#: 654753 Sample Desc	cription: PW-0	7					License/W	/ell #: 4189/054 Sampled: 1	1/5/2015 15
nalvto	Posult	Unite	LOD	100	Dilution	Qualifier	Pren	Analysis Analyst	Method

CT LAB Sample#: 654753 Samp	pie Description: PW-07	'					License/vve	II #: 4189/054	Sampled	: 11/5/2015 1525
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	< 0.050	ug/L	0.050	0.18	1			11/7/2015 17:	14 RLD	EPA 8260C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	t Method
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 17:14 RL	D EPA 8260C
1,1,2,2-Tetrachloroethane	< 0.020	ug/L	0.020	0.065	1			11/7/2015 17:14 RL	D EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 17:14 RL	D EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 17:14 RL	D EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			11/7/2015 17:14 RL	D EPA 8260C
1,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			11/7/2015 17:14 RL	D EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 17:14 RL	D EPA 8260C
1,2,3-Trichloropropane	< 0.040	ug/L	0.040	0.13	1			11/7/2015 17:14 RL	D EPA 8260C
1,2,4-Trichlorobenzene	< 0.040	ug/L	0.040	0.13	1			11/7/2015 17:14 RL	D EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/7/2015 17:14 RL	D EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/7/2015 17:14 RL	D EPA 8260C
1,2-Dibromoethane	< 0.040	ug/L	0.040	0.14	1			11/7/2015 17:14 RL	D EPA 8260C
1,2-Dichlorobenzene	< 0.060	ug/L	0.060	0.19	1			11/7/2015 17:14 RL	D EPA 8260C
1,2-Dichloroethane	< 0.040	ug/L	0.040	0.14	1			11/7/2015 17:14 RL	D EPA 8260C
1,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			11/7/2015 17:14 RL	D EPA 8260C
1,3,5-Trimethylbenzene	< 0.060	ug/L	0.060	0.20	1			11/7/2015 17:14 RL	D EPA 8260C
1,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			11/7/2015 17:14 RL	D EPA 8260C
1,3-Dichloropropane	< 0.040	ug/L	0.040	0.13	1			11/7/2015 17:14 RL	D EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 17:14 RL	D EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 17:14 RL	D EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 17:14 RL	D EPA 8260C
2-Chlorotoluene	< 0.060	ug/L	0.060	0.19	1			11/7/2015 17:14 RL	D EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 17:14 RL	D EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 17:14 RL	D EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 17:14 RL	D EPA 8260C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time	
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 17:14 RLD EPA 8260	C
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 17:14 RLD EPA 8260	C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 17:14 RLD EPA 8260	C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 17:14 RLD EPA 8260	C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 17:14 RLD EPA 8260	C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 17:14 RLD EPA 8260	C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 17:14 RLD EPA 8260	C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 17:14 RLD EPA 8260	C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 17:14 RLD EPA 8260	C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 17:14 RLD EPA 8260	C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 17:14 RLD EPA 8260	C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 17:14 RLD EPA 8260	C
Chloromethane	< 0.050	ug/L	0.050	0.18	1			11/7/2015 17:14 RLD EPA 8260	C
cis-1,2-Dichloroethene	3.0	ug/L	0.060	0.21	1			11/7/2015 17:14 RLD EPA 8260	C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 17:14 RLD EPA 8260	C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 17:14 RLD EPA 8260	C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 17:14 RLD EPA 8260	C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 17:14 RLD EPA 8260	OC
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 17:14 RLD EPA 8260	C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 17:14 RLD EPA 8260	OC
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 17:14 RLD EPA 8260	OC
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 17:14 RLD EPA 8260	OC
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 17:14 RLD EPA 8260	C
Methyl tert-butyl ether	0.50	ug/L	0.040	0.15	1			11/7/2015 17:14 RLD EPA 8260	C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 17:14 RLD EPA 8260	OC

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CT LAB Sample#: 654753 Sample Description: PW-07

TETRA TECH

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Sampled: 11/5/2015 1525

RLD EPA 8260C

License/Well #: 4189/054

11/7/2015 17:14

11/7/2015 17:14

11/7/2015 17:14

11/7/2015 17:14

11/7/2015 17:14

11/7/2015 17:14

11/7/2015 17:14

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 17:14 RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 17:14 RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 17:14 RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/7/2015 17:14 RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 17:14 RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/7/2015 17:14 RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/7/2015 17:14 RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 17:14 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 17:14 RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 17:14 RLD	EPA 8260C

0.21

0.20

0.048

0.10

0.18

1.6

0.052

CT LAB Sample#: 654754 Sample Description: TB-3 License/Well #: 4189/999 Sampled: 11/5/2015

0.060

0.014

0.050

0.50

0.016

0.030 *

0.060 *

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
-										
1,1,1,2-Tetrachloroethane	< 0.050	ug/L	0.050	0.18	1			11/7/2015 10:5	8 RLD	EPA 8260C
1,1,1-Trichloroethane	< 0.060	ug/L	0.060	0.21	1			11/7/2015 10:5	8 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

< 0.060

< 0.014

0.031

< 0.050

< 0.50

0.053

0.13

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

Toluene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Trichlorofluoromethane

Trichloroethene

Vinyl acetate

Vinyl chloride

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TETRA TECH

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CT LAB Sample#: 654754 Sample Description: TB-3 License/Well #: 4189/999 Sampled: 11/5/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep	Analysis A	nalyst	Method
	rtoouit	Oiiiio			2 iidii oii	qualifier	Date/Time	Date/Time	yot	ouiou
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/7/2015 10:58	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/7/2015 10:58	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 10:58	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/7/2015 10:58	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/7/2015 10:58	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 10:58	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 10:58	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/7/2015 10:58	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 10:58	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/7/2015 10:58	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 10:58	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 10:58	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/7/2015 10:58	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/7/2015 10:58	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/7/2015 10:58	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 10:58	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/7/2015 10:58	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 10:58	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/7/2015 10:58	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/7/2015 10:58	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/7/2015 10:58	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 10:58	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/7/2015 10:58	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/7/2015 10:58	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/7/2015 10:58	RLD	EPA 8260C

CT LABORATORIES delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115244

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CT LAB Sample#: 654754 Sample Description: TB-3 License/Well #: 4189/999 Sampled: 11/5/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
Benzene	<0.060	ug/L	0.060	0.18	1			11/7/2015 10:58	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 10:58	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 10:58	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/7/2015 10:58	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/7/2015 10:58	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/7/2015 10:58	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/7/2015 10:58	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/7/2015 10:58	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/7/2015 10:58	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/7/2015 10:58	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/7/2015 10:58	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/7/2015 10:58	RLD	EPA 8260C
sis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/7/2015 10:58	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/7/2015 10:58	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/7/2015 10:58	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 10:58	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/7/2015 10:58	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 10:58	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/7/2015 10:58	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/7/2015 10:58	RLD	EPA 8260C
sopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 10:58	RLD	EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/7/2015 10:58	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/7/2015 10:58	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/7/2015 10:58	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/7/2015 10:58	RLD	EPA 8260C

delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115244

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CT LAB Sample#: 654754 Sample Description: TB-3 License/Well #: 4189/999 Sampled: 11/5/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/7/2015 10:58 RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/7/2015 10:58 RLD	EPA 8260C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			11/7/2015 10:58 RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 10:58 RLD	EPA 8260C
sec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			11/7/2015 10:58 RLD	EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			11/7/2015 10:58 RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/7/2015 10:58 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 10:58 RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/7/2015 10:58 RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/7/2015 10:58 RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/7/2015 10:58 RLD	EPA 8260C
trans-1,3-Dichloropropene	< 0.014	ug/L	0.014	0.048	1			11/7/2015 10:58 RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			11/7/2015 10:58 RLD	EPA 8260C
Trichlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			11/7/2015 10:58 RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/7/2015 10:58 RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/7/2015 10:58 RLD	EPA 8260C

CT LABORATORIA delivering more than data from your environmental analyses

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115244 Page 42 of 42

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by:

Pat M. Letterer Project Manager 608-356-2760

QC Qualifiers

В	Analyte detected in the associated Method Blank.	Kansas NELAP ID# E-10368
С	Toxicity present in BOD sample.	Kentucky ID# 0023
D	Diluted Out.	ISO/IEC 17025-2005 A2LA Cert # 3806.
E	Safe, No Total Coliform detected.	North Carolina ID# 674
F	Unsafe, Total Coliform detected, no E. Coli detected.	Wisconsin (WDNR) Chemistry ID# 15706
G	Unsafe, Total Coliform detected and E. Coli detected.	1
Н	Holding time exceeded.	Wisconsin (DATCP) Bacteriology ID# 10
ı	BOD incubator temperature was outside acceptance limits during test period.	DoD-ELAP A2LA 3806.01
J	Estimated value.	GA EPD Stipulation ID E871111, Expires
L	Significant peaks were detected outside the chromatographic window.	Louisiana ID # 115843
М	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	Virginia ID# 7608
N	Insufficient BOD oxygen depletion.	Illinois NELAP ID # 002413
0	Complete BOD oxygen depletion.	Wisconsin (WOSB) ID# WI-5499-WBE
Р	Concentration of analyte differs more than 40% between primary and confirmation analysis.	·
Q	Laboratory Control Sample outside acceptance limits.	Maryland ID# 344
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
Т	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Υ	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications

Kansas NELAP ID# E-10368 0023 025-2005 A2LA Cert # 3806.01 lina ID# 674 (WDNR) Chemistry ID# 157066030 (DATCP) Bacteriology ID# 105-289 A2LA 3806.01 ipulation ID E871111, Expires Annually D # 115843 7608 AP ID # 002413

Description

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Telephone: 262 192 1282 Folder #:	115244	****	***	****	MMM		Di-						Add	ress:	35	N	COY POR	nt Dr
Project Name: Ocanomousco Company	TETRA TECH			-		1 (RCR/	,	WA her	NPE	ES		Address: 125 N Corporate Dr Sulte 100 Invoice To: * Brookfeld WI 530 EMAIL:					
Project #: 17-7413601.01	Project: OCONOMOWOCELEC Logged By: JLS PM: PM #									Company:					<u> </u>			
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Sampled By: Ashley Kovalauski		****	**************************************	(×××	***			*Part	y listed i	is resp	onsible	for pay	ment (of invoi	ce as	per CT L	.aboratories′	terms and conditions
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	Hered? Y/N	11 organic	1 ' 1	5	Sult	र्वाट्य	miem,								# Containers	Designated MS/MSD	CT Labor S 2	lysis requires prior ratories' approval urcharges: 4 hr 200%
Matrix: GW-groundwater SW-surface water WW-wastewater DW-drink S-soil/sediment SL-sludge A-air M-misc/v	king water g	+0ta	27	2	A K	200	\$ 7								Total#	Desig		3 days 100% 9 days 50%
Collection Date Time Matrix Grab/ Comp # Sample ID	Description			·		F	ill in	Space	s with	Bott	les pe	r Test			,			Lab ID #
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1210 mw.	125	$\bot \bot$	1	1	1		3		_		_		_		Ő		/	743/144
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to to browde access to cost records where prices are expressed as fixed fees or published unit prices 7.1 Upon prior notice to CTL, the Client may stud inspect CTL's records and accounts and inspect CTL's records covering control or such accounts covering on a second control or such accounts and accou

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per occurrence/aggragate). Any Clearl required changes to these limits or canditions may result in a chango in cost to the Clean.

shall also maintain during such portod. Comprehensive General and Contractual Lisbrity (firm) of \$2,000,000 per occurrence aggregato). Comprehensive Automobia Linbrity, owned and hind. (\$1,000,000 combined single firmit), and Professional/Pollution Lisbrity Insurance (firmit of \$5,000,000 per occurrence) aggregators. 6'.) CLT ayan majuraju ju jouco qriinili gue beujoumauco oj aeutojoe amude, gueso Loura surq Countyjoua' Moyrous, Countocuasijou auq Europo Aga (1955) prantasuos in accountance on the accountance of the 6. INSURANCE

specialism as related to the legal process, travel and all masonable expenses associated with the Biggion. 5.7 In the event that CTL is negatived to respond to legal process related to services for Client, Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response. Feeling agreement that the personnel involved in the response on the personnel involved in the response and attorney to be personnel involved in the response on the respiration and the response on the respiration and the respiration are response. 5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records for five (5) years.

or the capabilities of CTL's designated weste disposal vendor(s). state or joost redutementar. Any earnityses for projects that some cancelled or not accepted, or for which columns and other or or accepted, or for which columns and the Clear at their own expense. C.I.T. resources the right to return to the Cent any assumption or accepted or not accepted or for which C.I.L. as because of the Clear at their own expense.

5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to stoor to instructed to strong instructed t all applicable warranties, guarantees and insurance are those of the subcontracted isboratory.

unreasonably withhold CTL's right to independently defend its data.

breach of these Terms and Conditions), subject to any dedocure nequired by CTL be used by the Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client

5.2 Date and sample materials provided by Client or at Client's request, and the result obtained by CTL for all services randoned or le diverse and having the public or is in the public domain or Client has failed to pay CTL for all services randoned or is otherwise in devoloped by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.

5.1 Date or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any snalybids method, QAOQC protocols, software programs or oquipment

5. КЕЗОГТВ, WORK РКОDUCT

unavalisbility of supplies from usual suppliers, difficutièes or delays in transportation, mal or delivery services, or any other cause beyond CTL's reasonable control. not be limited to, acts of God, acts or orders of any governmental authority, strikes or other linearing authority, strikes or other lister labor disputes, ware, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation. 4.7 In no event shall CTL have any responsibility or lisbility to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part from any cause or circumstance beyond the resconsible common of CTL. Such causes and circumstances shall include, but

occessioned by the sovices performed or by application or use of the reports prepared. 4.6 CTL's izabily for any and at causes of action existing hereunder, whether based in contract, but (michaing these remount of compensation for the services pervices of action existing hereunder, whether no circumstances, whether a services, but (including negigence), or otherwise, shall CTL be nesponsible for loss of use, loss of profits, or for any special, inclinent, including the consequential camages

the Client generating Results consistent with the original Results will be activated fithy dollars (\$5.00) per sample, whichever is less. 4.5 Cherit's sole and exclusive remedy for the breach of warrandy in connection with any sonytones performed by CTL, wild be breach to repeat any sonytones performed by CTL, wild be breach to repeat any sonytones performed by CTL, wild be breach to repeat any sonytones performed by CTL, wild be breach to repeat any sonytones performed by CTL, wild be breached by CTL, will be breached by CTL, w

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes any other representative of CTL is authorized to give or make any other representative of CTL is authorized to give or make any other representative of CTL is authorized to give or make any other representative of CTL is authorized to give or make any other representative of CTL is authorized to give or make any other representative of CTL in connection warranty in say way.

revocation of any license, or notice of either, which affects work in progress.

times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates the cause of faithe to meet any Quality Manual requirements, the wateraty will be deemed to have been most within the Client in writing to CTL will notify the Client in writing the care of the writing to CTL will notify the CTL will notify the Client in writing the care of the

4.2 CTL ahall start preparation analysis within holding times and will proceed with the work provided that Sample Acceptance occurs within this period.

CTL ahall start preparation analysis with cTL's Quality Manuats will be decready or definition of asmiphes to comply with CTL's Quality Manuats will be decready or definition.

any resampling or other charges if work must be repeated to comply with a subsequently finalized QAAP. sample requises it. CTL reserves the right to devise from these methodologies as necessary or appropriate, assentation a CAPP, CTL, which deviations, if any, will be mesoned with recognized standards of the industry maker and CTL will not be responsible judgment or a CAPP, CTL will not be responsible judgment or a CAPP, CTL will proceed with manually agreement to a CAPP, CTL will not be responsible to: 4.1 Where applicable, CTL will use analytical methodologies which sae in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and where any where the insulation of the

4. WARRANTES AND LIABILITY

13.3 Susponsion or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of tress Terms and Conditions. CTL will compie as work to the Client. CTL will be compensated consistent with Section 2 of tress Terms and Conditions. CTL will complete as work to the past in full for all work completed.

3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing lost and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may

3.1 Changes to the Scope of Work, phos, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warmanted in these Terms and Conditions. CTL will not proceed with such changes until an agreement be documented in which conflicts with analytical, QA or other protocols warmanted in these Terms and Conditions. CTL will not proceed with such changes until an agreement be documented in which 3. CHANGE ORDERS, TERMINATION

work at any time based upon an unfavorable Client credit report.

has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overtuse payments are subject to an established with cTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by the trianguage of a line that the date of the scooper decreases of collection including resconds and accordance from the date and order at any time in the event Client fails to make this order as on the date with the date of the scooper decreases of collection including resconds and accordance and accordance of the date with the control of the make the date of the date 2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule, invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those schedule. 2. PAYMENT TERMS

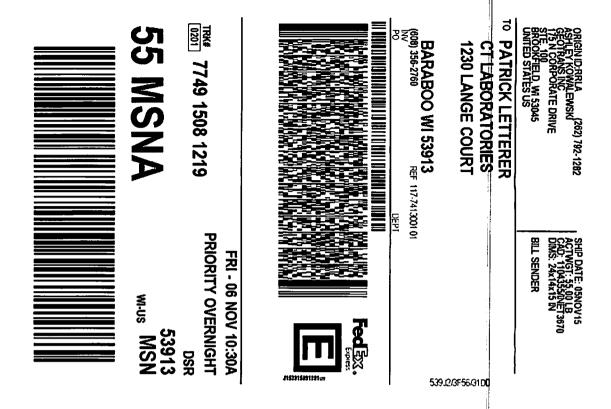
containing any hazardous substance which is to be defivered to CTL's premises will be packaged, itansported and defivered properly and in accordance with applicable tawa. 1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Citerul in no event will CTL have any responsibility for the Sample Acceptance, the entire risk of loss or damage to samples remains will CTL have any responsible to assemble t ability to process work due to contamination of instruments or work areas, the Ctiont will be responsible for the costs of clean up and recovery.

1.2 CT Laborationies mural be supplied with complete written disclosure of the known or suspected presence of the known or suspected presence of on hazarides, as defined by sphicable federal or state law, Where any scormpanied by the required disclosure, cause interruptions in the lab.

preservation, the client will be notified. If analysis can be performed, the final report will be qualified. If not, the samples will be rejected and the client notified for further instructions or resempting. (2) be isbed a spropriately with a unique sample identification written with intelligent will be contacted the clear that is interpreted to increase the interpreted to increase the contacted to increa concerning the sampte and any additional pertinent fields on the chain-of-custody. In the absence of any of the required information, the isbencetory will attempt to obtain the information; if unable to obtain the information and information; if unable to obtain the information in unable to obtain the information; if unable to obtain the information in unable the information in unab final report. All samples submitted to the laboratory must. (1) be accompanied by proper, full and complete documentation, including sample identification, location, date and time of collection, the collection must. (1) be accompanied by proper, full and complete documentation, including sample identification, location, date and time of collection, the collection must. (1) be accompanied by proper, full and complete documentation, including sample identification, location, date and time of collection, the collection must. 1.1 The Client may place the Order (i.e., specify a Scope of Work) effects for placing a purchase order be a scoepiad by the between the Order and Section 5.8.3.2 of the DOD CSM, will not be accepted by the laboratories find secretating the acceptance order and Section 5.8.3.2 of the DOD CSM, will not be acceptantly or will not be acceptance or the Order and Section 5.8.3.2 of the DOD CSM, will not be acceptantly or will not be acceptance or the

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by CTL in advance of the start of the project and in writing agreement to the contrary, the Critar constitutes an acceptance by the Citerat of CTL's offer to do business undor these Terms and conditions, the Conditions. No contrary or additional terms and conditions expressed in a Citerat of CTL's offer to do business that conditions are contrary or additional terms and conditions. Where a purchasor (Client) places an order for laboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Jerms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absence of a written



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QC SUMMARY REPORT

TETRA TECH Project Name: OCONOMOWOC

ELECTROPLATING

SDG #: 0 Folder #: 115244 Project Number: 117-7413001.01

D	u	pΙ	lic	а	te

Analytical Run #:	120731 655600	Analysis Date: Analysis Time:	11/9/2015 14:52	Prep Batch #: Prep Date/Time:	Matrix: Method:	GROUND WATER E310.2
Parent Sample #:	654739	Analyst:	DC	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Alkalinity Dissolved	315	mg/L	320					2	10
Alkalinity Total	315	mg/L	320					2	7

ELECTROPLATING

SDG #: 0 Folder #: 115244 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analytical Run #:	120709	Analysis Date:	11/7/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	656316	Analysis Time:	20:08	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	655113	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imits		RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.62	ug/L	BDL		4.00	90	71		136	6	21
I,1,1-Trichloroethane	3.92	ug/L	BDL		4.00	98	77		150	7	20
,1,2,2-Tetrachloroethane	3.39	ug/L	BDL		4.00	85	68		139	12	22
I,1,2-Trichloroethane	3.65	ug/L	BDL		4.00	91	70		139	2	25
1,1-Dichloroethane	3.65	ug/L	BDL		4.00	91	65		149	7	25
1,1-Dichloroethene	4.10	ug/L	BDL		4.00	102	56		164	8	24
1,1-Dichloropropene	3.96	ug/L	BDL		4.00	99	65		146	7	21
,2 Dichloroethane-d4	97.0	% Recovery			100	97.0	65		128		7
I,2,3-Trichlorobenzene	3.81	ug/L	BDL		4.00	95	62		135	8	31
,2,3-Trichloropropane	3.23	ug/L	BDL		4.00	81	66		145	9	26
,2,4-Trichlorobenzene	3.64	ug/L	BDL		4.00	91	61		132	9	29
I,2,4-Trimethylbenzene	3.78	ug/L	BDL		4.00	94	1		154	9	36
,2-Dibromo-3-chloropropane	3.41	ug/L	BDL		4.00	85	49		144	6	34
,2-Dibromoethane	3.53	ug/L	BDL		4.00	88	76		132	7	22
,2-Dichlorobenzene	3.59	ug/L	BDL		4.00	90	78		128	9	23
,2-Dichloroethane	3.52	ug/L	BDL		4.00	88	70		147	6	21
1,2-Dichloropropane	3.53	ug/L	BDL		4.00	88	72		138	9	19
,3,5-Trimethylbenzene	3.83	ug/L	BDL		4.00	96	1		151	9	34
,3-Dichlorobenzene	3.73	ug/L	BDL		4.00	93	78		127	7	22
,3-Dichloropropane	3.59	ug/L	BDL		4.00	90	73		136	6	23
,4-Dichlorobenzene	3.56	ug/L	BDL		4.00	89	78		127	8	22
2,2-Dichloropropane	3.49	ug/L	0.040		4.00	86	50		165	7	21
2-Butanone	33.8	ug/L	BDL		40.0	84	45		160	7	29
2-Chlorotoluene	3.65	ug/L	BDL		4.00	91	74		130	8	20
2-Hexanone	33.5	ug/L	BDL		40.0	84	55		143	8	28
I-Chlorotoluene	3.71	ug/L	BDL		4.00	93	57		131	8	22
1-Methyl-2-pentanone	36.5	ug/L	BDL		40.0	91	58		146	5	29
Acetone	25.7	ug/L	BDL		40.0	64	27		172	6	39
Benzene	3.73	ug/L	BDL		4.00	93	81		134	9	17
Bromobenzene	3.54	ug/L	BDL		4.00	88	80		127	10	20
Bromochloromethane	3.50	ug/L	BDL		4.00	88	73		143	9	22
Bromodichloromethane	3.61	ug/L	BDL		4.00	90	64		139	7	20
Bromofluorobenzene	96.0	% Recovery			100	96.0	67		120		7
Bromoform	3.46	ug/L	BDL		4.00	86	49		125	5	28
Bromomethane	3.88	ug/L	BDL		4.00	97	59		167	10	34
Carbon disulfide	7.94	ug/L	BDL		8.00	99	12		140	8	31
Carbon tetrachloride	4.12	ug/L	BDL		4.00	103	74		153	7	20
Chlorobenzene	3.64	ug/L	BDL		4.00	91	82		130	9	21
Chloroethane	3.81	ug/L	0.079		4.00	93	64		165	10	26
Chloroform	3.69	ug/L	BDL		4.00	92	73		138	7	18
Chloromethane	3.58	ug/L	BDL		4.00	90	62		157	8	21
sis-1,2-Dichloroethene	3.73	ug/L	BDL		4.00	93	75		152	7	21
cis-1,3-Dichloropropene	3.52	ug/L	BDL		4.00	88	61		129	5	21

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ELECTROPLATING

SDG #: 0 Folder #: 115244 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analytical Run #:	120709	Analysis Date:	11/7/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	656316	Analysis Time:	20:08	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	655113	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imit		RPD	RPD Limit
d8-Toluene	100	% Recovery			100	100	60		119		7
Dibromochloromethane	3.48	ug/L	BDL		4.00	87	56		130	10	23
Dibromofluoromethane	102	% Recovery			100	102	65		128		7
Dibromomethane	3.54	ug/L	BDL		4.00	88	71		142	5	21
Dichlorodifluoromethane	4.10	ug/L	BDL		4.00	102	62		196	10	22
Diisopropyl ether	3.57	ug/L	BDL		4.00	89	46		161	9	27
Ethylbenzene	3.73	ug/L	BDL		4.00	93	52		139	9	24
Hexachlorobutadiene	3.99	ug/L	BDL		4.00	100	66		147	4	30
sopropylbenzene	3.86	ug/L	BDL		4.00	96	50		135	9	24
m & p-Xylene	7.52	ug/L	BDL		8.00	94	1		156	10	28
Methyl tert-butyl ether	3.57	ug/L	BDL		4.00	89	46		161	7	33
Methylene chloride	3.14	ug/L	BDL		4.00	78	10		181	9	36
n-Butylbenzene	3.95	ug/L	BDL		4.00	99	46		144	7	24
n-Propylbenzene	3.85	ug/L	BDL		4.00	96	51		139	9	23
Naphthalene	3.61	ug/L	BDL		4.00	90	45		135	8	31
o-Xylene	3.64	ug/L	BDL		4.00	91	11		148	8	26
o-Isopropyltoluene	3.92	ug/L	BDL		4.00	98	18		148	10	27
sec-Butylbenzene	3.99	ug/L	BDL		4.00	100	57		138	8	23
Styrene	3.70	ug/L	BDL		4.00	92	1		159	9	40
ert-Butylbenzene	3.94	ug/L	BDL		4.00	98	74		132	9	22
Tetrachloroethene	4.02	ug/L	BDL		4.00	100	79		144	7	21
Tetrahydrofuran	34.3	ug/L	BDL		40.0	86	51		139	6	28
Toluene	3.83	ug/L	BDL		4.00	96	56		141	9	19
rans-1,2-Dichloroethene	3.79	ug/L	BDL		4.00	95	53		161	10	28
rans-1,3-Dichloropropene	3.49	ug/L	BDL		4.00	87	57		124	7	21
richloroethene	3.94	ug/L	BDL		4.00	98	74		138	4	19
Trichlorofluoromethane	4.31	ug/L	BDL		4.00	108	83		174	7	23
√inyl acetate	37.1	ug/L	BDL		40.0	93	0		198	7	25
Vinyl chloride	4.09	ug/L	BDL		4.00	102	65		168	9	21

ELECTROPLATING

SDG #: 0 Folder #: 115244 Project Number: 117-7413001.01

Matrix Spike Water

Analytical Run #:	120709	Analysis Date:	11/7/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	655113	Analysis Time:	19:39	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	654739	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imits		RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.84	ug/L	BDL		4.00	96	71		136		21
1,1,1-Trichloroethane	4.21	ug/L	BDL		4.00	105	77		150		20
1,1,2,2-Tetrachloroethane	3.84	ug/L	BDL		4.00	96	68		139		22
1,1,2-Trichloroethane	3.73	ug/L	BDL		4.00	93	70		139		25
1,1-Dichloroethane	3.91	ug/L	BDL		4.00	98	65		149		25
1,1-Dichloroethene	4.43	ug/L	BDL		4.00	111	56		164		24
1,1-Dichloropropene	4.26	ug/L	BDL		4.00	106	65		146		21
1,2 Dichloroethane-d4	95.0	% Recovery			100	95.0	65		128		7
1,2,3-Trichlorobenzene	4.11	ug/L	BDL		4.00	103	62		135		31
1,2,3-Trichloropropane	3.52	ug/L	BDL		4.00	88	66		145		26
1,2,4-Trichlorobenzene	3.98	ug/L	BDL		4.00	100	61		132		29
1,2,4-Trimethylbenzene	4.13	ug/L	BDL		4.00	103	1		154		36
1,2-Dibromo-3-chloropropane	3.62	ug/L	BDL		4.00	90	49		144		34
1,2-Dibromoethane	3.77	ug/L	BDL		4.00	94	76		132		22
1,2-Dichlorobenzene	3.93	ug/L	BDL		4.00	98	78		128		23
1,2-Dichloroethane	3.74	ug/L	BDL		4.00	94	70		147		21
1,2-Dichloropropane	3.87	ug/L	BDL		4.00	97	72		138		19
1,3,5-Trimethylbenzene	4.17	ug/L	BDL		4.00	104	1		151		34
1,3-Dichlorobenzene	3.99	ug/L	BDL		4.00	100	78		127		22
1,3-Dichloropropane	3.79	ug/L	BDL		4.00	95	73		136		23
1,4-Dichlorobenzene	3.87	ug/L	BDL		4.00	97	78		127		22
2,2-Dichloropropane	3.73	ug/L	BDL		4.00	93	50		165		21
2-Butanone	36.2	ug/L	BDL		40.0	90	45		160		29
2-Chlorotoluene	3.96	ug/L	BDL		4.00	99	74		130		20
2-Hexanone	36.3	ug/L	BDL		40.0	91	55		143		28
4-Chlorotoluene	4.02	ug/L	BDL		4.00	100	57		131		22
4-Methyl-2-pentanone	38.3	ug/L	BDL		40.0	96	58		146		29
Acetone	27.1	ug/L	BDL		40.0	68	27		172		39
Benzene	4.07	ug/L	BDL		4.00	102	81		134		17
Bromobenzene	3.93	ug/L	BDL		4.00	98	80		127		20
Bromochloromethane	3.82	ug/L	BDL		4.00	96	73		143		22
Bromodichloromethane	3.89	ug/L	BDL		4.00	97	64		139		20
Bromofluorobenzene	97.0	% Recovery			100	97.0	67		120		7
Bromoform	3.63	ug/L	BDL		4.00	91	49		125		28
Bromomethane	4.27	ug/L	BDL		4.00	107	59		167		34
Carbon disulfide	8.61	ug/L	BDL		8.00	107	12		140		31
Carbon tetrachloride	4.40	ug/L	BDL		4.00	110	74		153		20
Chlorobenzene	3.98	ug/L ug/L	BDL		4.00	100	82		130		21
Chloroethane	4.19	ug/L ug/L	BDL		4.00	105	64		165		26
Chloroform	4.19 3.95	ug/L ug/L	BDL		4.00	99	73		138		26 18
Chloromethane	3.95 3.86	-	BDL				73 62		157		21
		ug/L			4.00	96 100					
cis-1,2-Dichloroethene	4.02	ug/L	BDL		4.00	100	75 64		152		21
cis-1,3-Dichloropropene	3.72	ug/L	BDL		4.00	93	61		129		21

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ELECTROPLATING

SDG #: 0 Folder #: 115244 Project Number: 117-7413001.01

Matrix Spike Water

Analytical Run #:	120709	Analysis Date:	11/7/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	655113	Analysis Time:	19:39	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	654739	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro _imit		RPD	RPD Limit
d8-Toluene	100	% Recovery			100	100	60		119		7
Dibromochloromethane	3.86	ug/L	BDL		4.00	96	56		130		23
Dibromofluoromethane	101	% Recovery			100	101	65		128		7
Dibromomethane	3.74	ug/L	BDL		4.00	94	71		142		21
Dichlorodifluoromethane	4.52	ug/L	BDL		4.00	113	62		196		22
Diisopropyl ether	3.89	ug/L	BDL		4.00	97	46		161		27
Ethylbenzene	4.10	ug/L	BDL		4.00	102	52		139		24
Hexachlorobutadiene	4.15	ug/L	BDL		4.00	104	66		147		30
Isopropylbenzene	4.24	ug/L	BDL		4.00	106	50		135		24
m & p-Xylene	8.28	ug/L	BDL		8.00	104	1		156		28
Methyl tert-butyl ether	3.81	ug/L	BDL		4.00	95	46		161		33
Methylene chloride	3.42	ug/L	BDL		4.00	86	10		181		36
n-Butylbenzene	4.22	ug/L	BDL		4.00	106	46		144		24
n-Propylbenzene	4.20	ug/L	BDL		4.00	105	51		139		23
Naphthalene	3.92	ug/L	BDL		4.00	98	45		135		31
o-Xylene	3.96	ug/L	BDL		4.00	99	11		148		26
o-Isopropyltoluene	4.33	ug/L	BDL		4.00	108	18		148		27
sec-Butylbenzene	4.33	ug/L	BDL		4.00	108	57		138		23
Styrene	4.05	ug/L	BDL		4.00	101	1		159		40
ert-Butylbenzene	4.32	ug/L	BDL		4.00	108	74		132		22
Tetrachloroethene	4.29	ug/L	BDL		4.00	107	79		144		21
Tetrahydrofuran	36.5	ug/L	BDL		40.0	91	51		139		28
Toluene	4.20	ug/L	BDL		4.00	105	56		141		19
rans-1,2-Dichloroethene	4.19	ug/L	BDL		4.00	105	53		161		28
rans-1,3-Dichloropropene	3.75	ug/L	BDL		4.00	94	57		124		21
richloroethene	4.09	ug/L	BDL		4.00	102	74		138		19
Trichlorofluoromethane	4.63	ug/L	BDL		4.00	116	83		174		23
√inyl acetate	39.8	ug/L	BDL		40.0	100	0		198		25
Vinyl chloride	4.46	ug/L	BDL		4.00	112	65		168		21



Sample Condition Report

Folder #: 115244 Client: **TETRA TECH** Print Date / Time: Received Date / Time / By:

11/06/2015 11/06/2015

13:47 1045 DJL

1210

Project Name: OCONOMOWOC ELECTROPLATING Log-In Date / Time / By: Project #:

11/06/2015 117-7413001.01

JLS PM: PML

Project Phase:

Coolers: 5487

Custody Seals Present: N

Temperature: COC Present:?

1.5 C Complete? On Ice: Υ

Seal Intact? Ν

Numbers:

NONE

Υ

Ship Method:

FEDEX EXPRESS

Tracking Number:

774915081219

Adequate Packaging: Y

Temp Blank Enclosed?

Υ

Notes: SAMPLES RECEIVED IN GOOD CONDITION ON ICE

NO CUSTODY SEALS PRESENT, TAPE WAS INTACT

Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
654727 MW-16S		
	UNPRES PL 1 /	ALK, Anions
	Total # of Containers of Type $(UNPRES PL) = 1$	
654727 MW-16S		
	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS, VOC
	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS,VOC
	Total # of Containers of Type (VOA HCL) = 6	,
654727 MW-16S		
	HNO3 1 Y /	ICP
	Total # of Containers of Type (HNO3) = 1	
654727 MW-16S		
	H2SO4 PL 1 Y /	TOC
	Total # of Containers of Type $(H2SO4 PL) = 1$	
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
	HNO3 1 Y /	ICP
	Total # of Containers of Type (HNO3) = 1	
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
654739 MW-12B	Comamo: Type Cond. Code pri Ottiff Inteled?	

115244

		UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
654739	MW-12B	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
654739	MW-12B	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
654739	MW-12B	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	тос
Sample ID) / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
554740	MW-12B	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
Sample IE	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
54741	MW-12D	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
54741	MW-12D	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
54741	MW-12D	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
54741	MW-12D	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	тос
ample II	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
54742	MW-12D	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP

115244

Sample ID) / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
654743	MW-12S	UNPRES PL Total # of Containe	1 ers of Type ((JNPRES PL) = 1	ALK,Anions
654743	MW-12S	VOA HCL VOA HCL VOA HCL VOA HCL VOA HCL	1 1 1 1	/ / / /	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
		VOA HCL Total # of Containe	ers of Type (\	/OA HCL) = 6	GAS,VOC
654743	MW-12S	HNO3 Total # of Containe	1 ers of Type (<i>F</i>	Y / HNO3) = 1	ICP
654743	MW-12S	H2SO4 PL Total # of Containe	1 ers of Type (<i>F</i>	Y / H2SO4 PL) = 1	TOC
Sample ID) / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
654744	MW-12S	HNO3 Total # of Containe	1 ers of Type (Y / HNO3) = 1	ICP
Sample ID) / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
654745	TW-202I	UNPRES PL Total # of Containe	1 ers of Type ((JNPRES PL) = 1	ALK,Anions
654745	TW-202I	VOA HCL VOA HCL VOA HCL VOA HCL VOA HCL VOA HCL Total # of Containe	1 1 1 1 1 ers of Type (\	/ / / /OA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
654745	TW-202I	HNO3 Total # of Containe	1 ers of Type (<i>F</i>	Y / HNO3) = 1	ICP
654745	TW-202I	H2SO4 PL Total # of Containe	1 ers of Type (<i>F</i>	Y / H2SO4 PL) = 1	TOC

Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
654746 TW-202I	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
654747 MW-13D	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
654747 MW-13D	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
654747 MW-13D	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
654747 MW-13D	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	тос
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
654748 MW-13D	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
654749 MW-13S	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
654749 MW-13S	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
654749 MW-13S	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP

654749 MW-13S	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) =	TOC 1
Sample ID / Description	Container Type Cond. Code pH OK?/Filte	ered? Tests
654750 MW-13S	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID / Description	Container Type Cond. Code pH OK?/Filte	ered? Tests
654751 PW-08	VOA HCL 1 / VOA HCL 1 / VOA HCL 1 / Total # of Containers of Type (VOA HCL) =	VOC VOC VOC
Sample ID / Description	Container Type Cond. Code pH OK?/Filte	ered? Tests
654752 PW-10	VOA HCL 1 / VOA HCL 1 / VOA HCL 1 / Total # of Containers of Type (VOA HCL) =	VOC VOC VOC
Sample ID / Description	Container Type Cond. Code pH OK?/Filte	ered? Tests
654753 PW-07	VOA HCL 1 / VOA HCL 1 / VOA HCL 1 / Total # of Containers of Type (VOA HCL) =	VOC VOC VOC
Sample ID / Description	Container Type Cond. Code pH OK?/Filte	ered? Tests
654754 TB-3	Trip Blank 1 / Trip Blank 1 / Total # of Containers of Type (<i>Trip Blank</i>) =	VOC VOC 2

Condition CodeCondition Description1Sample Received OK

delivering more than data from your environmental analyses

ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



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ANALYTICAL REPORT

TETRA TECH
MARK MANTHEY

175 N CORPORATE DRIVE

SUITE 100

BROOKFIELD, WI 53045

Project Name: OCONOMOWOC ELECTROPLATING

Project Phase:

Contract #: 2747

Project #: 117-7413001.01

Folder #: 115269

Reprint Date: 12/4/2015

Report Date: 11/24/2015

Date Received: 11/7/2015

Arrival Temperature: See COC

Page 1 of 31

1 1

Purchase Order #:

CT LAB Sample#: 655226 Sample Description: MW-15B								Vell #: 4189/034	Sample	ed: 11/6/2015 0950
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	•	t Method
Field Results										
Conductivity (Field)	552	umhos/cm	N/A	N/A	1			12/4/2015 12	2:30 PM	L
Dissolved Oxygen (Field)	0.32	mg/L	N/A	N/A	1			12/4/2015 1	2:30 PM	L
pH (Field)	6.93	S.U.	N/A	N/A	1			12/4/2015 1:	2:30 PM	L
Temperature (Field)	12.28	Deg. C	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Depth to Groundwater (Field)	14.25	Feet	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Groundwater Elevation (Field)	840.10	Feet MSL	N/A	N/A	1			12/4/2015 1:	2:30 PM	L
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12	2:30 PM	L
OX/REDOX (Field)	-128	MV	N/A	N/A	1			12/4/2015 1	2:30 PM	L
Inorganic Results										
Alkalinity Total	420	mg/L	5.0	18	1			11/9/2015 1	5:00 ME	R EPA 310.2
Total Chloride	8.6	mg/L	1.0	3.5	1	M		11/9/2015 1	7:17 JJF	EPA 9056A
Total Sulfate	6.0	mg/L	1.0	3.4	1			11/9/2015 1	7:17 JJF	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.4	1			11/10/2015 1	9:58 JJF	EPA 9060A

Metals Results

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CT LAB Sample#: 655226	Sample Description: MW-15B	License/Well #: 4189/034	Sampled: 11/6/2015 0950
<u>'</u>	, ,		•

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
Total Iron	3.31	mg/L	0.020	0.065	1		11/16/2015 12:00	11/18/2015 11:03 N	H EPA 6010C
Total Manganese	548	ug/L	1.4	4.7	1		11/16/2015 12:00	11/18/2015 11:03 NA	NH EPA 6010C
Organic Results									
Acetylene	<0.23	ug/L	0.23	0.77	1		11/12/2015 07:25	11/12/2015 11:13 BM	IS Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/12/2015 07:25	11/12/2015 11:13 BM	IS Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/12/2015 07:25	11/12/2015 11:13 BM	IS Mod RSK 175
Methane	580	ug/L	40	140	100		11/12/2015 07:25	11/12/2015 11:22 BM	MS Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 10:59 RI	D EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:59 RI	D EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/19/2015 10:59 RI	D EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			11/19/2015 10:59 RI	D EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 10:59 RI	D EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/19/2015 10:59 RI	D EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/19/2015 10:59 RI	D EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 10:59 RI	D EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 10:59 RI	D EPA 8260C
1,2,4-Trichlorobenzene	< 0.040	ug/L	0.040	0.13	1			11/19/2015 10:59 RI	D EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/19/2015 10:59 RI	D EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/19/2015 10:59 RI	D EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/19/2015 10:59 RI	D EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 10:59 RI	D EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/19/2015 10:59 RI	D EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/19/2015 10:59 RI	D EPA 8260C
1,3,5-Trimethylbenzene	< 0.060	ug/L	0.060	0.20	1			11/19/2015 10:59 RI	D EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Aı Date/Time	nalyst	Method
1,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			11/19/2015 10:59	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 10:59	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 10:59	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/19/2015 10:59	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/19/2015 10:59	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/19/2015 10:59	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 10:59	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/19/2015 10:59	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 10:59	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/19/2015 10:59	RLD	EPA 8260C
Benzene	< 0.060	ug/L	0.060	0.18	1			11/19/2015 10:59	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 10:59	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 10:59	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 10:59	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/19/2015 10:59	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/19/2015 10:59	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/19/2015 10:59	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/19/2015 10:59	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 10:59	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:59	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/19/2015 10:59	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 10:59	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:59	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/19/2015 10:59	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/19/2015 10:59	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis / Date/Time	Analyst	Method
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 10:59	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 10:59	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 10:59	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:59	RLD	EPA 8260C
Hexachlorobutadiene	< 0.070	ug/L	0.070	0.24	1			11/19/2015 10:59	RLD	EPA 8260C
sopropylbenzene	< 0.050	ug/L	0.050	0.17	1			11/19/2015 10:59	RLD	EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/19/2015 10:59	RLD	EPA 8260C
Methyl tert-butyl ether	< 0.040	ug/L	0.040	0.15	1			11/19/2015 10:59	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:59	RLD	EPA 8260C
-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			11/19/2015 10:59	RLD	EPA 8260C
-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 10:59	RLD	EPA 8260C
laphthalene	< 0.050	ug/L	0.050	0.18	1			11/19/2015 10:59	RLD	EPA 8260C
-Xylene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 10:59	RLD	EPA 8260C
-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:59	RLD	EPA 8260C
ec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			11/19/2015 10:59	RLD	EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			11/19/2015 10:59	RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 10:59	RLD	EPA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1			11/19/2015 10:59	RLD	EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/19/2015 10:59	RLD	EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:59	RLD	EPA 8260C
ans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/19/2015 10:59	RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/19/2015 10:59	RLD	EPA 8260C
richloroethene	<0.030	ug/L	0.030	0.10	1			11/19/2015 10:59	RLD	EPA 8260C
richlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 10:59	RLD	EPA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1			11/19/2015 10:59	RLD	EPA 8260C

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ilution Qualifier	Prep Analysis Analyst Method Date/Time Date/Time
1	11/19/2015 10:59 RLD EPA 8260C
	License/Well #: 4189/034 Sampled: 11/6/2015 0950
ilution Qualifier	Prep Analysis Analyst Method Date/Time Date/Time
1	11/11/2015 19:32 NAH EPA 6010C
1	11/11/2015 19:32 NAH EPA 6010C
	License/Well #: 4189/033 Sampled: 11/6/2015 1030
ilution Qualifier	Prep Analysis Analyst Method Date/Time Date/Time
1	12/4/2015 12:30 PML
1	12/4/2015 12:30 PML
1	12/4/2015 12:30 PML
1	12/4/2015 12:30 PML 11/9/2015 15:01 MER EPA 310.2
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•	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Total Sulfate	17	mg/L	2.0	6.8	2			11/9/2015 19:23	JJF	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.4	1			11/10/2015 20:16	JJF	EPA 9060A
Metals Results										
Total Iron	0.0620	mg/L	0.020 *	0.065	1		11/16/2015 12:00	11/18/2015 11:08	NAH	EPA 6010C
Total Manganese	20.7	ug/L	1.4	4.7	1		11/16/2015 12:00	11/18/2015 11:08	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/12/2015 07:25	11/12/2015 09:33	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/12/2015 07:25	11/12/2015 09:33	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/12/2015 07:25	11/12/2015 09:33	BMS	Mod RSK 175
Methane	<0.40	ug/L	0.40	1.4	1		11/12/2015 07:25	11/12/2015 09:33	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 11:27	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:27	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/19/2015 11:27	RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			11/19/2015 11:27	RLD	EPA 8260C
1,1-Dichloroethane	0.20	ug/L	0.060	0.19	1			11/19/2015 11:27	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/19/2015 11:27	RLD	EPA 8260C
1,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			11/19/2015 11:27	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 11:27	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 11:27	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/19/2015 11:27	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 11:27	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/19/2015 11:27	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/19/2015 11:27	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:27	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/19/2015 11:27 RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/19/2015 11:27 RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/19/2015 11:27 RLD	EPA 8260C
1,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			11/19/2015 11:27 RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 11:27 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 11:27 RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/19/2015 11:27 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/19/2015 11:27 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:27 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 11:27 RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/19/2015 11:27 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 11:27 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/19/2015 11:27 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/19/2015 11:27 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 11:27 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 11:27 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 11:27 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/19/2015 11:27 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/19/2015 11:27 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/19/2015 11:27 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/19/2015 11:27 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 11:27 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:27 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/19/2015 11:27 RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 11:27 RLD	EPA 8260C

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cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:27	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/19/2015 11:27	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/19/2015 11:27	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:27	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:27	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 11:27	RLD	EPA 8260C
thylbenzene	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:27	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/19/2015 11:27	RLD	EPA 8260C
sopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 11:27	RLD	EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/19/2015 11:27	RLD	EPA 8260C
lethyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 11:27	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:27	RLD	EPA 8260C
-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 11:27	RLD	EPA 8260C
-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 11:27	RLD	EPA 8260C
laphthalene	<0.050	ug/L	0.050	0.18	1			11/19/2015 11:27	RLD	EPA 8260C
-Xylene	<0.050	ug/L	0.050	0.16	1			11/19/2015 11:27	RLD	EPA 8260C
-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:27	RLD	EPA 8260C
ec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/19/2015 11:27	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/19/2015 11:27	RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:27	RLD	EPA 8260C
etrachloroethene	0.075	ug/L	0.060 *	0.20	1			11/19/2015 11:27	RLD	EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/19/2015 11:27	RLD	EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:27	RLD	EPA 8260C
ans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/19/2015 11:27	RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/19/2015 11:27	RLD	EPA 8260C

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CT LAB Sample#: 655228 Sample	Description: MW-1	5S					License/Well #: 4189/033 Sampled: 11/6/	2015 103
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Met Date/Time Date/Time	hod
Trichloroethene	0.051	ug/L	0.030 *	0.10	1		11/19/2015 11:27 RLD EPA	8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1		11/19/2015 11:27 RLD EPA	8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1		11/19/2015 11:27 RLD EPA	8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1		11/19/2015 11:27 RLD EPA	8260C
CT LAB Sample#: 655229 Sample	Description: MW-1	5S					License/Well #: 4189/033 Sampled: 11/6/	2015 103
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Met Date/Time Date/Time	hod
Metals Results								
Dissolved Iron	<0.010	mg/L	0.010	0.032	1		11/11/2015 19:38 NAH EPA	6010C
Dissolved Manganese	18.5	ug/L	1.6	5.3	1		11/11/2015 19:38 NAH EPA	6010C
CT LAB Sample#: 655230 Sample	Description: MW-1	5D					License/Well #: 4189/025 Sampled: 11/6/	2015 113
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Met Date/Time Date/Time	hod
Field Results								
Conductivity (Field)	920	umhos/cm	N/A	N/A	1		12/4/2015 12:30 PML	
Dissolved Oxygen (Field)	2.55	mg/L	N/A	N/A	1		12/4/2015 12:30 PML	
pH (Field)	6.67	S.U.	N/A	N/A	1		12/4/2015 12:30 PML	
Temperature (Field)	12.35	Deg. C	N/A	N/A	1		12/4/2015 12:30 PML	
Depth to Groundwater (Field)	9.99	Feet	N/A	N/A	1		12/4/2015 12:30 PML	
Groundwater Elevation (Field)	845.31	Feet MSL	N/A	N/A	1		12/4/2015 12:30 PML	
Turbidity (Field)	1.6		N/A	N/A	1		12/4/2015 12:30 PML	
OX/REDOX (Field)	45	MV	N/A	N/A				

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Inorganic Results										
Alkalinity Total	340	mg/L	5.0	18	1			11/9/2015 15:02	MER	EPA 310.2
Total Chloride	180	mg/L	3.0	11	3			11/9/2015 19:44	JJF	EPA 9056A
Total Sulfate	42	mg/L	3.0	10	3			11/9/2015 19:44	JJF	EPA 9056A
Total Organic Carbon	0.68	mg/L	0.40 *	1.4	1			11/10/2015 20:31	JJF	EPA 9060A
Metals Results										
Total Iron	0.0353	mg/L	0.020 *	0.065	1		11/16/2015 12:00	11/18/2015 11:14	NAH	EPA 6010C
Total Manganese	256	ug/L	1.4	4.7	1		11/16/2015 12:00	11/18/2015 11:14	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/12/2015 07:25	11/12/2015 09:42	BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/12/2015 07:25	11/12/2015 09:42	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/12/2015 07:25	11/12/2015 09:42	BMS	Mod RSK 175
Methane	1.8	ug/L	0.40	1.4	1		11/12/2015 07:25	11/12/2015 09:42	BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	< 0.050	ug/L	0.050	0.18	1			11/19/2015 11:56	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:56	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/19/2015 11:56	RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			11/19/2015 11:56	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:56	RLD	EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			11/19/2015 11:56	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:56	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 11:56	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 11:56	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/19/2015 11:56	RLD	EPA 8260C
,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/19/2015 11:56	RLD	EPA 8260C
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/19/2015 11:56 RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/19/2015 11:56 RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:56 RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/19/2015 11:56 RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/19/2015 11:56 RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/19/2015 11:56 RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:56 RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 11:56 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 11:56 RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/19/2015 11:56 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/19/2015 11:56 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:56 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 11:56 RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/19/2015 11:56 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 11:56 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/19/2015 11:56 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/19/2015 11:56 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 11:56 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 11:56 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 11:56 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/19/2015 11:56 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/19/2015 11:56 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/19/2015 11:56 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/19/2015 11:56 RLD	EPA 8260C
Chlorobenzene	0.24	ug/L	0.040	0.14	1			11/19/2015 11:56 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:56 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/19/2015 11:56 RLD	EPA 8260C
Chloromethane	0.077	ug/L	0.050 *	0.18	1			11/19/2015 11:56 RLD	EPA 8260C
cis-1,2-Dichloroethene	2.5	ug/L	0.060	0.21	1			11/19/2015 11:56 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/19/2015 11:56 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/19/2015 11:56 RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:56 RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:56 RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 11:56 RLD	EPA 8260C
Ethylbenzene	< 0.060	ug/L	0.060	0.21	1			11/19/2015 11:56 RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/19/2015 11:56 RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 11:56 RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/19/2015 11:56 RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 11:56 RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:56 RLD	EPA 8260C
n-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			11/19/2015 11:56 RLD	EPA 8260C
n-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 11:56 RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/19/2015 11:56 RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/19/2015 11:56 RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 11:56 RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/19/2015 11:56 RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/19/2015 11:56 RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 11:56 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/19/2015 11:56 RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/19/2015 11:56 RLD	EPA 8260C

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CT LAB Sample#: 655230	Sample Description: MW-15D	License/Well #: 4189/025	Sampled: 11/6/2015 1130

OT LAB Gampion. 000200 Gamp										
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier		alysis A e/Time	nalyst	Method
Toluene	<0.060	ug/L	0.060	0.21	1		11/19/20	15 11:56	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.10	ug/L	0.060 *	0.20	1		11/19/20	15 11:56	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1		11/19/20	15 11:56	RLD	EPA 8260C
Trichloroethene	9.8	ug/L	0.030	0.10	1		11/19/20	15 11:56	RLD	EPA 8260C
Trichlorofluoromethane	< 0.050	ug/L	0.050	0.18	1		11/19/20	15 11:56	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1		11/19/20	15 11:56	RLD	EPA 8260C
Vinyl chloride	0.030	ug/L	0.016 *	0.052	1		11/19/20	15 11:56	RLD	EPA 8260C
CT LAB Sample#: 655231 Samp	ole Description: MW-1	15D					License/Well #: 418	9/025	Sampled:	11/6/2015 1130
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier		alysis A	nalyst	Method
Metals Results										
Dissolved Iron	<0.010	mg/L	0.010	0.032	1		11/11/20	15 19:44	NAH	EPA 6010C
Dissolved Manganese	251	ug/L	1.6	5.3	1		11/11/20	15 19:44	NAH	EPA 6010C
CT LAB Sample#: 655232 Samp	ble Description: PW-1	1					License/Well #: 418	9/058	Sampled:	11/6/2015 1215
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Ai	alysis A	nalyst	Method
				LOQ	Dilution			e/Time		
Organic Results		<u> </u>			Dilution					
Organic Results 1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1		Date/Time Da			EPA 8260C
_	<0.050 <0.060						Date/Time Da 11/19/20	e/Time	RLD	EPA 8260C EPA 8260C
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane		ug/L	0.050	0.18	1		Date/Time Da 11/19/20 11/19/20	ne/Time	RLD	
1,1,1,2-Tetrachloroethane	<0.060	ug/L ug/L	0.050 0.060	0.18 0.21	1		Date/Time Da 11/19/20 11/19/20	ne/Time 115 12:24 115 12:24	RLD RLD RLD	EPA 8260C

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CT LAB Sample#: 655232 Sample Description: PW-11 License/Well #: 4189/058 Sampled: 11/6/2015 1215

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/19/2015 12:24	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/19/2015 12:24	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 12:24	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 12:24	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/19/2015 12:24	RLD	EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/19/2015 12:24	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/19/2015 12:24	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/19/2015 12:24	RLD	EPA 8260C
1,2-Dichlorobenzene	< 0.060	ug/L	0.060	0.19	1			11/19/2015 12:24	RLD	EPA 8260C
1,2-Dichloroethane	0.065	ug/L	0.040 *	0.14	1			11/19/2015 12:24	RLD	EPA 8260C
1,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			11/19/2015 12:24	RLD	EPA 8260C
1,3,5-Trimethylbenzene	< 0.060	ug/L	0.060	0.20	1			11/19/2015 12:24	RLD	EPA 8260C
1,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			11/19/2015 12:24	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 12:24	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 12:24	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/19/2015 12:24	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/19/2015 12:24	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/19/2015 12:24	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 12:24	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/19/2015 12:24	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 12:24	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/19/2015 12:24	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/19/2015 12:24	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 12:24	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 12:24	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst N Date/Time	lethod
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 12:24 RLD EF	A 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/19/2015 12:24 RLD EF	A 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/19/2015 12:24 RLD EF	A 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/19/2015 12:24 RLD EF	A 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/19/2015 12:24 RLD EF	A 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 12:24 RLD EF	A 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 12:24 RLD EF	A 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/19/2015 12:24 RLD EF	A 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 12:24 RLD EF	A 8260C
cis-1,2-Dichloroethene	1.9	ug/L	0.060	0.21	1			11/19/2015 12:24 RLD EF	A 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/19/2015 12:24 RLD EF	A 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/19/2015 12:24 RLD EF	A 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 12:24 RLD EF	A 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 12:24 RLD EF	A 8260C
Diisopropyl ether	0.13	ug/L	0.040 *	0.15	1			11/19/2015 12:24 RLD EF	A 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/19/2015 12:24 RLD EF	A 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/19/2015 12:24 RLD EF	A 8260C
sopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 12:24 RLD EF	A 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/19/2015 12:24 RLD EF	A 8260C
Methyl tert-butyl ether	1.0	ug/L	0.040	0.15	1			11/19/2015 12:24 RLD EF	A 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/19/2015 12:24 RLD EF	A 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 12:24 RLD EF	A 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 12:24 RLD EF	A 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/19/2015 12:24 RLD EF	A 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/19/2015 12:24 RLD EF	A 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analy Date/T		nalyst	Method
o-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/19/2015	12:24	RLD	EPA 8260C
ec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/19/2015	12:24	RLD	EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			11/19/2015	12:24	RLD	EPA 8260C
ert-Butylbenzene	< 0.060	ug/L	0.060	0.19	1			11/19/2015	12:24	RLD	EPA 8260C
etrachloroethene	< 0.060	ug/L	0.060	0.20	1			11/19/2015	12:24	RLD	EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/19/2015	12:24	RLD	EPA 8260C
oluene	< 0.060	ug/L	0.060	0.21	1			11/19/2015	12:24	RLD	EPA 8260C
rans-1,2-Dichloroethene	0.13	ug/L	0.060 *	0.20	1			11/19/2015	12:24	RLD	EPA 8260C
rans-1,3-Dichloropropene	< 0.014	ug/L	0.014	0.048	1			11/19/2015	12:24	RLD	EPA 8260C
richloroethene	<0.030	ug/L	0.030	0.10	1			11/19/2015	12:24	RLD	EPA 8260C
richlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/19/2015	12:24	RLD	EPA 8260C
/inyl acetate	<0.50	ug/L	0.50	1.6	1			11/19/2015	12:24	RLD	EPA 8260C
'inyl chloride	0.040	ug/L	0.016 *	0.052	1			11/19/2015	12:24	RLD	EPA 8260C

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Field Results									
Conductivity (Field)	887	umhos/cm	N/A	N/A	1			12/4/2015 12:30 PML	
Dissolved Oxygen (Field)	0.30	mg/L	N/A	N/A	1			12/4/2015 12:30 PML	
pH (Field)	6.88	S.U.	N/A	N/A	1			12/4/2015 12:30 PML	
Temperature (Field)	11.65	Deg. C	N/A	N/A	1			12/4/2015 12:30 PML	
Depth to Groundwater (Field)	8.29	Feet	N/A	N/A	1			12/4/2015 12:30 PML	
Groundwater Elevation (Field)	845.41	Feet MSL	N/A	N/A	1			12/4/2015 12:30 PML	

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12:3) PML	
OX/REDOX (Field)	-70	MV	N/A	N/A	1			12/4/2015 12:3) PML	
Inorganic Results										
Alkalinity Total	340	mg/L	5.0	18	1			11/9/2015 15:0	3 MER	EPA 310.2
Total Chloride	160	mg/L	3.0	11	3			11/9/2015 20:0	4 JJF	EPA 9056A
Total Sulfate	45	mg/L	3.0	10	3			11/9/2015 20:0	4 JJF	EPA 9056A
Total Organic Carbon	0.84	mg/L	0.40 *	1.4	1			11/10/2015 21:3	5 JJF	EPA 9060A
Metals Results										
Total Iron	0.628	mg/L	0.020	0.065	1		11/16/2015 12:00	11/18/2015 11:3	1 NAH	EPA 6010C
Total Manganese	31.8	ug/L	1.4	4.7	1		11/16/2015 12:00	11/18/2015 11:3	1 NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/12/2015 07:25	11/12/2015 09:5	1 BMS	Mod RSK 175
Ethane	<0.90	ug/L	0.90	2.9	1		11/12/2015 07:25	11/12/2015 09:5	1 BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/12/2015 07:25	11/12/2015 09:5	1 BMS	Mod RSK 175
Methane	7.9	ug/L	0.40	1.4	1		11/12/2015 07:25	11/12/2015 09:5	1 BMS	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 12:5	3 RLD	EPA 8260C
1,1,1-Trichloroethane	< 0.060	ug/L	0.060	0.21	1			11/19/2015 12:5	3 RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/19/2015 12:5	3 RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			11/19/2015 12:5	3 RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 12:5	3 RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/19/2015 12:5	3 RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/19/2015 12:5	3 RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 12:5	3 RLD	EPA 8260C
1,2,3-Trichloropropane	< 0.040	ug/L	0.040	0.13	1			11/19/2015 12:5	3 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/19/2015 12:53	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 12:53	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/19/2015 12:53	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/19/2015 12:53	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 12:53	RLD	EPA 8260C
1,2-Dichloroethane	0.074	ug/L	0.040 *	0.14	1			11/19/2015 12:53	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/19/2015 12:53	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/19/2015 12:53	RLD	EPA 8260C
1,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			11/19/2015 12:53	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 12:53	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 12:53	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/19/2015 12:53	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/19/2015 12:53	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/19/2015 12:53	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 12:53	RLD	EPA 8260C
4-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			11/19/2015 12:53	RLD	EPA 8260C
4-Methyl-2-pentanone	< 0.40	ug/L	0.40	1.4	1			11/19/2015 12:53	RLD	EPA 8260C
Acetone	< 0.90	ug/L	0.90	3.1	1			11/19/2015 12:53	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/19/2015 12:53	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 12:53	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 12:53	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 12:53	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/19/2015 12:53	RLD	EPA 8260C
Bromomethane	< 0.090	ug/L	0.090	0.29	1			11/19/2015 12:53	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/19/2015 12:53	RLD	EPA 8260C

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hidrobenzene	Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Allorethane	Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/19/2015 12:53 RLD	EPA 8260C
thioroform	Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 12:53 RLD	EPA 8260C
Alloromethane	Chloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 12:53 RLD	EPA 8260C
is-1,2-Dichloroethene 9,3 ug/L 0.060 0.21 1 11/19/2015 12:53 RLD EPA 8260C is-1,3-Dichloropropene <0.015 ug/L 0.015 0.049 1 11/19/2015 12:53 RLD EPA 8260C libromochloromethane <0.016 ug/L 0.016 0.054 1 11/19/2015 12:53 RLD EPA 8260C libromochloromethane <0.060 ug/L 0.060 0.19 1 11/19/2015 12:53 RLD EPA 8260C lichlorodifluoromethane <0.060 ug/L 0.060 0.19 1 11/19/2015 12:53 RLD EPA 8260C thylbenzene <0.060 ug/L 0.060 0.19 1 11/19/2015 12:53 RLD EPA 8260C thylbenzene <0.060 ug/L 0.060 0.21 1 11/19/2015 12:53 RLD EPA 8260C thylbenzene <0.050 ug/L 0.050 0.17 1 11/19/2015 12:53 </td <td>Chloroform</td> <td><0.060</td> <td>ug/L</td> <td>0.060</td> <td>0.20</td> <td>1</td> <td></td> <td></td> <td>11/19/2015 12:53 RLD</td> <td>EPA 8260C</td>	Chloroform	<0.060	ug/L	0.060	0.20	1			11/19/2015 12:53 RLD	EPA 8260C
Section Sect	Chloromethane	< 0.050	ug/L	0.050	0.18	1			11/19/2015 12:53 RLD	EPA 8260C
Second S	cis-1,2-Dichloroethene	9.3	ug/L	0.060	0.21	1			11/19/2015 12:53 RLD	EPA 8260C
this formomethane	sis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/19/2015 12:53 RLD	EPA 8260C
Second S	Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/19/2015 12:53 RLD	EPA 8260C
September Sept	Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 12:53 RLD	EPA 8260C
thylbenzene	Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 12:53 RLD	EPA 8260C
lexachlorobutadiene	Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 12:53 RLD	EPA 8260C
sopropylbenzene	thylbenzene	<0.060	ug/L	0.060	0.21	1			11/19/2015 12:53 RLD	EPA 8260C
A p-Xylene 0.12 ug/L 0.12 0.40 1 11/19/2015 12:53 RLD EPA 8260C Methyl tert-butyl ether 0.35 ug/L 0.040 0.15 1 11/19/2015 12:53 RLD EPA 8260C Methyl tert-butyl ether 0.060 ug/L 0.060 0.21 1 11/19/2015 12:53 RLD EPA 8260C Rethylene chloride 0.050 ug/L 0.050 0.17 1 11/19/2015 12:53 RLD EPA 8260C Rethylenzene 0.050 ug/L 0.050 0.16 1 11/19/2015 12:53 RLD EPA 8260C Repropylbenzene 0.050 ug/L 0.050 0.18 1 11/19/2015 12:53 RLD EPA 8260C Repropyltoluene 0.050 ug/L 0.050 0.16 1 11/19/2015 12:53 RLD EPA 8260C Repropyltoluene 0.060 ug/L 0.060 0.21 1 11/19/2015 12:53 RLD EPA 8260C Rec-Butylbenzene 0.050 ug/L 0.050 0.18 1 11/19/2015 12:53 RLD EPA 8260C Rec-Butylbenzene 0.050 ug/L 0.050 0.18 1 11/19/2015 12:53 RLD EPA 8260C Rec-Butylbenzene 0.050 ug/L 0.050 0.18 1 11/19/2015 12:53 RLD EPA 8260C Rec-Butylbenzene 0.050 ug/L 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rec-Butylbenzene 0.050 ug/L 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rec-Butylbenzene 0.050 ug/L 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rec-Butylbenzene 0.050 ug/L 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rec-Butylbenzene 0.050 ug/L 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rec-Butylbenzene 0.050 ug/L 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rethylene 0.050 ug/L 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rethylene 0.050 Ug/L 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rethylene 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rethylene 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rethylene 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rethylene 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C Rethylene 0.050 0.15 1	lexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/19/2015 12:53 RLD	EPA 8260C
Methyl tert-butyl ether 0.35 ug/L 0.040 0.15 1 11/19/2015 12:53 RLD EPA 8260C flethylene chloride <0.060 ug/L 0.060 0.21 1 11/19/2015 12:53 RLD EPA 8260C Butylbenzene <0.050 ug/L 0.050 0.17 1 11/19/2015 12:53 RLD EPA 8260C Propylbenzene <0.050 ug/L 0.050 0.16 1 11/19/2015 12:53 RLD EPA 8260C Propylbenzene <0.050 ug/L 0.050 0.18 1 11/19/2015 12:53 RLD EPA 8260C Propylbenzene <0.050 ug/L 0.050 0.18 1 11/19/2015 12:53 RLD EPA 8260C Propylbenzene <0.050 ug/L 0.050 0.16 1 11/19/2015 12:53 RLD EPA 8260C Propylbenzene <0.050 ug/L 0.060 0.21 1 11/19/2015 12:53 RLD </td <td>sopropylbenzene</td> <td>< 0.050</td> <td>ug/L</td> <td>0.050</td> <td>0.17</td> <td>1</td> <td></td> <td></td> <td>11/19/2015 12:53 RLD</td> <td>EPA 8260C</td>	sopropylbenzene	< 0.050	ug/L	0.050	0.17	1			11/19/2015 12:53 RLD	EPA 8260C
Methylene chloride	n & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/19/2015 12:53 RLD	EPA 8260C
-Butylbenzene	Methyl tert-butyl ether	0.35	ug/L	0.040	0.15	1			11/19/2015 12:53 RLD	EPA 8260C
-Propylbenzene	Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/19/2015 12:53 RLD	EPA 8260C
laphthalene	-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 12:53 RLD	EPA 8260C
-Xylene	-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 12:53 RLD	EPA 8260C
-Isopropyltoluene	laphthalene	<0.050	ug/L	0.050	0.18	1			11/19/2015 12:53 RLD	EPA 8260C
ec-Butylbenzene <0.050 ug/L 0.050 0.18 1 11/19/2015 12:53 RLD EPA 8260C tyrene <0.050 ug/L 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C	-Xylene	<0.050	ug/L	0.050	0.16	1			11/19/2015 12:53 RLD	EPA 8260C
styrene <0.050 ug/L 0.050 0.15 1 11/19/2015 12:53 RLD EPA 8260C	-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 12:53 RLD	EPA 8260C
, and the second	ec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/19/2015 12:53 RLD	EPA 8260C
rt-Butylbenzene <0.060 ug/L 0.060 0.19 1 11/19/2015 12:53 RLD EPA 8260C	Styrene	<0.050	ug/L	0.050	0.15	1			11/19/2015 12:53 RLD	EPA 8260C
	ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 12:53 RLD	EPA 8260C

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CT LAB Sample#: 655233 Sample	ole Description: MW-1	02D					License/Well #: 4189/038 S	
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Ar Date/Time Date/Time	nalyst Method
Tetrachloroethene	< 0.060	ug/L	0.060	0.20	1		11/19/2015 12:53	RLD EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1		11/19/2015 12:53	RLD EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1		11/19/2015 12:53	RLD EPA 8260C
rans-1,2-Dichloroethene	0.25	ug/L	0.060	0.20	1		11/19/2015 12:53	RLD EPA 8260C
rans-1,3-Dichloropropene	< 0.014	ug/L	0.014	0.048	1		11/19/2015 12:53	RLD EPA 8260C
Trichloroethene	0.36	ug/L	0.030	0.10	1		11/19/2015 12:53	RLD EPA 8260C
Trichlorofluoromethane	< 0.050	ug/L	0.050	0.18	1		11/19/2015 12:53	RLD EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1		11/19/2015 12:53	RLD EPA 8260C
/inyl chloride	0.21	ug/L	0.016	0.052	1		11/19/2015 12:53	RLD EPA 8260C
CT LAB Sample#: 655234 Samp	ole Description: MW-1	02D					License/Well #: 4189/038 Sa	ampled: 11/6/2015 12
	ole Description: MW-1	02D Units	LOD	LOQ	Dilution	Qualifier	License/Well #: 4189/038 S: Prep Analysis Ar Date/Time Date/Time	
Analyte	·		LOD	LOQ	Dilution	Qualifier	Prep Analysis Ar	
Analyte Metals Results	·		LOD 0.010	LOQ 0.032	Dilution	Qualifier	Prep Analysis Ar	
Analyte Metals Results Dissolved Iron	Result	Units				Qualifier	Prep Analysis Ar Date/Time Date/Time	nalyst Method
Analyte Metals Results Dissolved Iron Dissolved Manganese	Result	Units mg/L ug/L	0.010	0.032	1	Qualifier	Prep Analysis Ar Date/Time 11/11/2015 20:06 11/11/2015 20:06	nalyst Method NAH EPA 6010C
Analyte Metals Results Dissolved Iron Dissolved Manganese	0.553 20.3	Units mg/L ug/L	0.010	0.032	1	Qualifier Qualifier	Prep Analysis Ar Date/Time 11/11/2015 20:06 11/11/2015 20:06	NAH EPA 6010C NAH EPA 6010C ampled: 11/6/2015 13
Analyte Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 655235 Sample	0.553 20.3 Die Description: MW-1	Units mg/L ug/L 02S	0.010 1.6	0.032 5.3	1		Prep Analysis Ar Date/Time	NAH EPA 6010C NAH EPA 6010C ampled: 11/6/2015 13
Analyte Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 655235 Sample Analyte Field Results	0.553 20.3 Die Description: MW-1	Units mg/L ug/L 02S	0.010 1.6	0.032 5.3	1		Prep Analysis Ar Date/Time	NAH EPA 6010C NAH EPA 6010C ampled: 11/6/2015 13
Analyte Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 655235 Sample Analyte	Result 0.553 20.3 Die Description: MW-1 Result	Units mg/L ug/L 02S Units	0.010 1.6 LOD	0.032 5.3 LOQ	1 1 Dilution		Prep Date/Time Analysis Are Date/Time 11/11/2015 20:06 11/11/2015 20:06 11/11/2015 20:06 License/Well #: 4189/037 Signature Prep Date/Time Analysis Are Date/Time	NAH EPA 6010C NAH EPA 6010C ampled: 11/6/2015 13

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CT LAB Sample#: 655235	Sample Description: MW-102S	License/Well #: 4189/037	Sampled: 11/6/2015 1300
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Temperature (Field)	13.44	Deg. C	N/A	N/A	1			12/4/2015 12:30	PML	
Depth to Groundwater (Field)	8.58	Feet	N/A	N/A	1			12/4/2015 12:30	PML	
Groundwater Elevation (Field)	845.07	Feet MSL	N/A	N/A	1			12/4/2015 12:30	PML	
Turbidity (Field)	0		N/A	N/A	1			12/4/2015 12:30	PML	
OX/REDOX (Field)	83	MV	N/A	N/A	1			12/4/2015 12:30) PML	
norganic Results										
Alkalinity Total	420	mg/L	5.0	18	1			11/9/2015 15:04	MER	EPA 310.2
Total Chloride	630	mg/L	10	35	10			11/9/2015 20:46) JJF	EPA 9056A
Total Sulfate	27	mg/L	1.0	3.4	1			11/9/2015 20:25	JJF	EPA 9056A
otal Organic Carbon	2.3	mg/L	0.40	1.4	1			11/10/2015 21:46	3 JJF	EPA 9060A
Metals Results										
Total Iron	<0.020	mg/L	0.020	0.065	1		11/16/2015 12:00	11/18/2015 12:10	NAH	EPA 6010C
Total Manganese	7.0	ug/L	1.4	4.7	1		11/16/2015 12:00	11/18/2015 12:10	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		11/12/2015 07:25	11/12/2015 10:00	BMS	Mod RSK 175
Ethane	< 0.90	ug/L	0.90	2.9	1	Υ	11/12/2015 07:25	11/12/2015 10:00	BMS	Mod RSK 175
Ethene	<1.2	ug/L	1.2	4.0	1		11/12/2015 07:25	11/12/2015 10:00	BMS	Mod RSK 175
Methane (<0.40	ug/L	0.40	1.4	1	Υ	11/12/2015 07:25	11/12/2015 10:00	BMS	Mod RSK 175
,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 13:2	RLD	EPA 8260C
,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:2°	RLD	EPA 8260C
,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/19/2015 13:2°	RLD	EPA 8260C
,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			11/19/2015 13:2°	RLD	EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			11/19/2015 13:2	RLD	EPA 8260C
,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/19/2015 13:2	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/19/2015 13:21 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 13:21 RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 13:21 RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/19/2015 13:21 RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 13:21 RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			11/19/2015 13:21 RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/19/2015 13:21 RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 13:21 RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			11/19/2015 13:21 RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			11/19/2015 13:21 RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			11/19/2015 13:21 RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:21 RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 13:21 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 13:21 RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/19/2015 13:21 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/19/2015 13:21 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/19/2015 13:21 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 13:21 RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/19/2015 13:21 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 13:21 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			11/19/2015 13:21 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/19/2015 13:21 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 13:21 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 13:21 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 13:21 RLD	EPA 8260C

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CT LAB Sample#: 655235 Sample Description: MW-102S License/Well #: 4189/037 Sampled: 11/6/2015 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	lyst	Method
Bromoform	<0.018	ug/L	0.018	0.060	1			11/19/2015 13:21	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/19/2015 13:21	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/19/2015 13:21	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/19/2015 13:21	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 13:21	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:21	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/19/2015 13:21	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 13:21	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:21	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/19/2015 13:21	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/19/2015 13:21	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 13:21	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 13:21	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 13:21	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:21	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/19/2015 13:21	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 13:21	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/19/2015 13:21	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 13:21	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:21	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 13:21	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 13:21	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/19/2015 13:21	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/19/2015 13:21	RLD	EPA 8260C
o-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:21	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
sec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			11/19/2015 13:2	21 RLD	EPA 8260C
styrene	< 0.050	ug/L	0.050	0.15	1			11/19/2015 13:2	21 RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 13:2	21 RLD	EPA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1			11/19/2015 13:2	21 RLD	EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/19/2015 13:2	21 RLD	EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:2	21 RLD	EPA 8260C
ans-1,2-Dichloroethene	< 0.060	ug/L	0.060	0.20	1			11/19/2015 13:2	21 RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/19/2015 13:2	21 RLD	EPA 8260C
richloroethene	< 0.030	ug/L	0.030	0.10	1			11/19/2015 13:2	21 RLD	EPA 8260C
richlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 13:2	21 RLD	EPA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1			11/19/2015 13:2	21 RLD	EPA 8260C
'inyl chloride	<0.016	ug/L	0.016	0.052	1			11/19/2015 13:2	21 RLD	EPA 8260C
CT LAB Sample#: 655236 Samp	ole Description: MW-1	02S					License/\	Well #: 4189/037	Sampled:	11/6/2015 13
nalyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
letals Results										
Dissolved Iron	<0.010	mg/L	0.010	0.032	1			11/11/2015 20:1	1 NAH	EPA 6010C
issolved Manganese	<1.6	ug/L	1.6	5.3	1			11/11/2015 20:1	1 NAH	EPA 6010C
CT LAB Sample#: 655237 Samp	ole Description: FILTE	R BLANK					License/\	Well #: 4189/997	Sampled:	11/6/2015 13
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep	Analysis	Analyst	Method

Organic Results

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CT LAB Sample#: 655237 Sample Description: FILTER BLANK License/Well #: 4189/997 Sampled: 11/6/2015 1345

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 13:50 RI	.D EPA 8260C
1,1,1-Trichloroethane	< 0.060	ug/L	0.060	0.21	1			11/19/2015 13:50 RI	D EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/19/2015 13:50 RI	D EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			11/19/2015 13:50 RI	D EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			11/19/2015 13:50 RI	D EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			11/19/2015 13:50 RI	D EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			11/19/2015 13:50 RI	D EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 13:50 RI	.D EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 13:50 RI	.D EPA 8260C
1,2,4-Trichlorobenzene	< 0.040	ug/L	0.040	0.13	1			11/19/2015 13:50 RI	D EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/19/2015 13:50 RI	D EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/19/2015 13:50 RI	D EPA 8260C
1,2-Dibromoethane	< 0.040	ug/L	0.040	0.14	1			11/19/2015 13:50 RI	D EPA 8260C
1,2-Dichlorobenzene	< 0.060	ug/L	0.060	0.19	1			11/19/2015 13:50 RI	D EPA 8260C
1,2-Dichloroethane	< 0.040	ug/L	0.040	0.14	1			11/19/2015 13:50 RI	D EPA 8260C
1,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			11/19/2015 13:50 RI	D EPA 8260C
1,3,5-Trimethylbenzene	< 0.060	ug/L	0.060	0.20	1			11/19/2015 13:50 RI	D EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:50 RI	D EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 13:50 RI	D EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 13:50 RI	D EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/19/2015 13:50 RI	D EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			11/19/2015 13:50 RI	D EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/19/2015 13:50 RI	D EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 13:50 RI	D EPA 8260C
4-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			11/19/2015 13:50 RI	.D EPA 8260C

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CT LAB Sample#: 655237 Sample Description: FILTER BLANK License/Well #: 4189/997 Sampled: 11/6/2015 1345

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 13:50	RLD	EPA 8260C
Acetone	1.8	ug/L	0.90 *	3.1	1			11/19/2015 13:50	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			11/19/2015 13:50	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 13:50	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 13:50	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 13:50	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/19/2015 13:50	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/19/2015 13:50	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/19/2015 13:50	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/19/2015 13:50	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 13:50	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:50	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/19/2015 13:50	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 13:50	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:50	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/19/2015 13:50	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/19/2015 13:50	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 13:50	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 13:50	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 13:50	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:50	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/19/2015 13:50	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 13:50	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/19/2015 13:50	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 13:50	RLD	EPA 8260C

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CT LAB Sample#: 655237	Sample Description: FILTER BLANK	License/Well #: 4189/997	Sampled: 11/6/2015 1345

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:50 RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 13:50 RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			11/19/2015 13:50 RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			11/19/2015 13:50 RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			11/19/2015 13:50 RLD	EPA 8260C
o-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:50 RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			11/19/2015 13:50 RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			11/19/2015 13:50 RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 13:50 RLD	EPA 8260C
Гetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/19/2015 13:50 RLD	EPA 8260C
Гetrahydrofuran	<0.60	ug/L	0.60	2.1	1			11/19/2015 13:50 RLD	EPA 8260C
Гoluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 13:50 RLD	EPA 8260C
rans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/19/2015 13:50 RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/19/2015 13:50 RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			11/19/2015 13:50 RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			11/19/2015 13:50 RLD	EPA 8260C
/inyl acetate	<0.50	ug/L	0.50	1.6	1			11/19/2015 13:50 RLD	EPA 8260C
/inyl chloride	<0.016	ug/L	0.016	0.052	1			11/19/2015 13:50 RLD	EPA 8260C
CT LAB Sample#: 655238 Sample D	Description: TB-4						License/\	Well #: 4189/999 Sampled	d: 11/6/2015
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep	Analysis Analyst	Method

CT LAB Sample#. 000200 Sample Description. TB-4							License/v	veii #. 4169/999	Sampled	1. 11/6/2015	
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method	
Organic Results											
1,1,1,2-Tetrachloroethane	< 0.050	ug/L	0.050	0.18	1			11/19/2015 10:3	30 RLD	EPA 8260C	

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CT LAB Sample#: 655238 Sample Description: TB-4 License/Well #: 4189/999 Sampled: 11/6/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:30	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			11/19/2015 10:30	RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			11/19/2015 10:30	RLD	EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			11/19/2015 10:30	RLD	EPA 8260C
,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			11/19/2015 10:30	RLD	EPA 8260C
,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			11/19/2015 10:30	RLD	EPA 8260C
,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 10:30	RLD	EPA 8260C
,2,3-Trichloropropane	< 0.040	ug/L	0.040	0.13	1			11/19/2015 10:30	RLD	EPA 8260C
,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			11/19/2015 10:30	RLD	EPA 8260C
,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			11/19/2015 10:30	RLD	EPA 8260C
,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			11/19/2015 10:30	RLD	EPA 8260C
,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			11/19/2015 10:30	RLD	EPA 8260C
,2-Dichlorobenzene	< 0.060	ug/L	0.060	0.19	1			11/19/2015 10:30	RLD	EPA 8260C
,2-Dichloroethane	< 0.040	ug/L	0.040	0.14	1			11/19/2015 10:30	RLD	EPA 8260C
,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			11/19/2015 10:30	RLD	EPA 8260C
,3,5-Trimethylbenzene	< 0.060	ug/L	0.060	0.20	1			11/19/2015 10:30	RLD	EPA 8260C
,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			11/19/2015 10:30	RLD	EPA 8260C
,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			11/19/2015 10:30	RLD	EPA 8260C
,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 10:30	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			11/19/2015 10:30	RLD	EPA 8260C
-Butanone	<0.80	ug/L	0.80	2.8	1			11/19/2015 10:30	RLD	EPA 8260C
-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			11/19/2015 10:30	RLD	EPA 8260C
-Hexanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 10:30	RLD	EPA 8260C
-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			11/19/2015 10:30	RLD	EPA 8260C
l-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			11/19/2015 10:30	RLD	EPA 8260C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115269

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CT LAB Sample#: 655238 Sample Description: TB-4 License/Well #: 4189/999 Sampled: 11/6/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis /	nalyst	Method
Acetone	4.1	ug/L	0.90	3.1	1		Date/ Fiffle	11/19/2015 10:30	RLD	EPA 8260C
		-			-					
Benzene	<0.060	ug/L	0.060	0.18	1			11/19/2015 10:30		EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 10:30		EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 10:30		EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			11/19/2015 10:30		EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			11/19/2015 10:30		EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			11/19/2015 10:30	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			11/19/2015 10:30	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			11/19/2015 10:30	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			11/19/2015 10:30	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:30	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			11/19/2015 10:30	RLD	EPA 8260C
Chloromethane	< 0.050	ug/L	0.050	0.18	1			11/19/2015 10:30	RLD	EPA 8260C
sis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:30	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			11/19/2015 10:30	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			11/19/2015 10:30	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 10:30	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			11/19/2015 10:30	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 10:30	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:30	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			11/19/2015 10:30	RLD	EPA 8260C
sopropylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 10:30	RLD	EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			11/19/2015 10:30	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			11/19/2015 10:30	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:30	RLD	EPA 8260C

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TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115269

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CT LAB Sample#: 655238 Sample Description: TB-4 License/Well #: 4189/999 Sampled: 11/6/2015

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			11/19/2015 10:30 RLD	EPA 8260C
n-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 10:30 RLD	EPA 8260C
Naphthalene	< 0.050	ug/L	0.050	0.18	1			11/19/2015 10:30 RLD	EPA 8260C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			11/19/2015 10:30 RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:30 RLD	EPA 8260C
sec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			11/19/2015 10:30 RLD	EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			11/19/2015 10:30 RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			11/19/2015 10:30 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			11/19/2015 10:30 RLD	EPA 8260C
Tetrahydrofuran	1.1	ug/L	0.60 *	2.1	1			11/19/2015 10:30 RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			11/19/2015 10:30 RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			11/19/2015 10:30 RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			11/19/2015 10:30 RLD	EPA 8260C
Trichloroethene	< 0.030	ug/L	0.030	0.10	1			11/19/2015 10:30 RLD	EPA 8260C
Trichlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			11/19/2015 10:30 RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			11/19/2015 10:30 RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			11/19/2015 10:30 RLD	EPA 8260C

CT LABORATORIES delivering more than data from your environmental analyses

Analyte detected in the associated Method Blank.

TETRA TECH

Project Name: OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 115269 Page 31 of 31

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by:

Pat M. Letterer Project Manager 608-356-2760

QC Qualifiers

	Analyte detected in the associated method blank.	l L
С	Toxicity present in BOD sample.	k
D	Diluted Out.	1 13
E	Safe, No Total Coliform detected.	1 .
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	V
Н	Holding time exceeded.	\ \
1	BOD incubator temperature was outside acceptance limits during test period.	
J	Estimated value.	
L	Significant peaks were detected outside the chromatographic window.	L
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	\
N	Insufficient BOD oxygen depletion.	1
0	Complete BOD oxygen depletion.	
Р	Concentration of analyte differs more than 40% between primary and confirmation analysis.	l ,
Q	Laboratory Control Sample outside acceptance limits.	N
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
٧	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
Χ	Analyte exceeded calibration range.	
Υ	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications

Kansas NELAP ID# E-10368 Kentucky ID# 0023

ISO/IEC 17025-2005 A2LA Cert # 3806.01

North Carolina ID# 674

Wisconsin (WDNR) Chemistry ID# 157066030 Wisconsin (DATCP) Bacteriology ID# 105-289

DoD-ELAP A2LA 3806.01

GA EPD Stipulation ID E871111, Expires Annually

Louisiana ID # 115843

Virginia ID# 7608

Illinois NELAP ID # 002413

Wisconsin (WOSB) ID# WI-5499-WBE

Maryland ID# 344

Description

Code

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Matrix: GW – groundwater SW - surface water WW - wast S - soil/sediment SL - sludge A - air		Filtered? Y/N	+0+2 OK (CIN) C	ICP WAL	IC P Dissaked	alk/chlondel	vnetn, eth, ed	809/23 5 500								Total # Containers		Designated MS/MSD	Rush a CT La	nnalysis red boratories Surcharg 24 hr 20 2-3 days 1 4-9 days !	<i>appre</i> es: 0% 00%	•
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CT Laboratories Terms and Conditions

Where a purchaser (Cisont) places an order for laboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by CTL in advance of the start of the project and in writing.

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submiting a purchase order to CTL in writing, by telephone (confirmed in writing) or by negotiated contract. Whichever option the Client selects for placing the Order shall not be valid unless it contains sufficient specification to enable CTL to carry out the Client's requirements. It is the policy of CT Laboratories that samples not meeting the acceptance criteria, outlined in the NELAC standards and Section 5.8.3.2 of the DOD QSM, will not be accepted by the laboratory or will be qualified on the final report. All samples submitted to the laboratory must: (1) be accompanied by proper, full and complete documentation, including sample identification, becation, the collector's name, type of preservation (if any), type of sample, any special comments concerning the sample and any additional pertinent fields on the chain-of-custody. In the absence of any of the required information, the laboratory will attempt to contact the client to obtain the information; if unable to obtain the necessary in the necessary in the necessary in the necessary in the contacted for further instructions or resampling. (2) be labeled appropriately with a unique sample identification written with indellible ink on water resistant labels. If the laboratory cannot determine the identity of a sample, it will be rejected and the client will be contacted for further instructions or resampling. (3) be in an appropriate sample container. If the container is inappropriate, the client will be contacted for further instructions or resampling guide containing approved containers and preservations for analytical methods requested. (4) adhere to specified holding times. If samples are exceeded, with least han ½ the holding times are exceeded, the final report will be qualified. (5) contain adequate sample volume to performed, the final report will be contacted for further instructions or resampling. If samples show signs of damage, contamination or inadequate preservation

1.2 CT Laboratories must be supplied with complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.

1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or lability for the action or inaction of any carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment torms are net 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion bereof from the due date until the date of payment. All foce are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. CTL reserves the right to refuse to proceed with work at any time based upon an unflavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

- 3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.
- 3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.
- 3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of those Terms and Conditions. CTL will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these mothods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Manuals then in effect, and CTL will not be responsible for any resampting or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 CTL shall start preparation and/or analysis within hoking times provided that Sample Acceptance does not occur within this period, CTL will use its best efforts to most hoking times and will proceed with the work provided that, in CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met hoking times provided the initial analysis was performed within the applicable hoking time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be doesned to have been met.

4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Torms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any describination or revocation of any license, or notice of either, which affects work in progress.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Cleart's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be limited to repeating any services performed, contingent on the Cleart's providing, at the request of CTL and at the Cleart's expense, additional completes) if necessary. Any reanalysis requested by the Cleart genoming Results consistent with the original Results will be at the Cleart's expense. If resampting is necessary, CTL's liability for resampting costs will be limited to actual cost or one hundred of one hundred fifty dollars (\$150) per sampte, whichever is less.

4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, but, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed walved unless suit thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputos, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be refained by CTL, and Client shall not disclose such information to any third party.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL for all services request, and the result obtained by CTL for all services required of is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or logal process.

5.3 Should the Results delivered by CTL be used by the Client or Client's crient, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client

5.5 Spould the restant design of the country of the

5.4 CTL reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in CTL's sole judgment, it is reasonably necessary, appropriate or advisable to do so, and with the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and insurance are those of the subcontracted laboratory.

5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable Federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at their own expense. CTL reserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated wasted disposal vendor(s).

5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL egrees to retain all records for five (5) years.

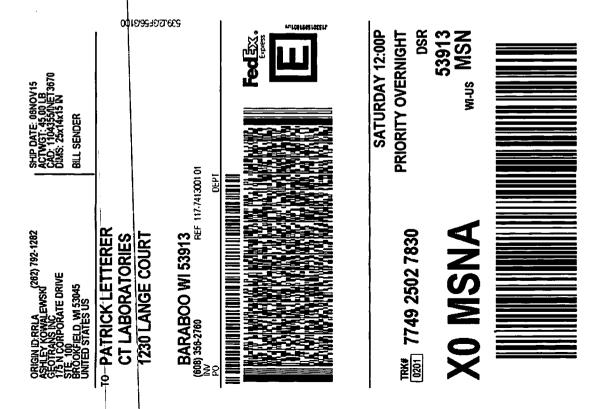
5.7 In the evant that CTL is required to respond to legal process related to services for Cient, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the Bigation.

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Torms and Conditions, Workers' Compensation and Employer's Liabity Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period, Comprehensive General and Contractual Liabitity (limit of \$2,000,000 per occurrence/aggregate), Comprehensive Automobile Liabitity, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liabitity Insurance (limit of \$5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7. AUDIT

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after complation of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices



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incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannol exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jeweiry, precious metals, negotiable instruments and other value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether blirect, timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your adrual loss and file a fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on result in additional billing charges, along with the cancellation of your FedEx account number. Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraubulent and could

19100C **Sleitinl** Ice Present Perature S Temperature



Analysis Date:

Analysis Time:

Analyst:

QC SUMMARY REPORT

TETRA TECH Project Name: OCONOMOWOC

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

	Lab Contro	l Spike Water		
1	11/9/2015	Prep Batch #:	Matrix:	LIQUID
1	14:36	Prep Date/Time:	Method:	E310.2
Ν	MER	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Alkalinity	369.0	mg/L			375.0	98	90 110			

Analytical Run #:

Parent Sample #:

CTLab #:

120731

655264

TETRA TECH

Folder #: 115269

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	120731	Analysis Date:	11/9/2015	Prep Batch #:	Matrix:	LIQUID	
CTLab #:	655265	Analysis Time:	14:37	Prep Date/Time:	Method:	E310.2	
Parent Sample #:		Analyst:	MER	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Alkalinity	7	mg/L		U	0	•	7	7	•	

Date Printed: 12/4/2015

TETRA TECH

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

SDG #: 0 Folder #: 115269

Duplicate

ſ							
	Analytical Run #:	120744	Analysis Date:	11/9/2015	Prep Batch #:	Matrix:	GROUND WATER
	CTLab #:	655637	Analysis Time:	17:38	Prep Date/Time:	Method:	SW9056A
	Parent Sample #:	655226	Analyst:	JJF	Prep Analyst:		

	-									
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Total Chloride	8.58	mg/L	8.6					0	20	
Total Sulfate	6.03	mg/L	6.0					0	20	

TETRA TECH Project Name: OCONOMOWOC

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Analytical Run #:	120744	Analysis Date:	11/9/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	655632	Analysis Time:	13:41	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	15.35	mg/L			15.00	102	80 120		
Sulfate	24.93	mg/L			25.00	100	80 120		

TETRA TECH

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

SDG #: 0 Folder #: 115269

Method Blank Water

Analytical Run #:	120744	Analysis Date:	11/9/2015	Prep Batch #: Prep Date/Time:	Matrix:	LIQUID
CTLab #:	655638	Analysis Time:	14:02		Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample	Units	Parent sample	Qualifier(s)	Spike Amount	% Recovery	Control Limits	RPD	RPD Limit	
	result		result		Added	Recovery	Limito		Lillin	
Chloride	1.0	mg/L		U	0		1.0			
Sulfate	1.0	mg/L		U	0		1.0			

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

SDG #: 0 Folder #: 115269

Matrix Spike Water

Analytical Run #:	120744	Analysis Date:	11/9/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	655633	Analysis Time:	19:02	Prep Date/Time:	Method:	SW9056A
Parent Sample #:	655226	Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imit		RPD	RPD Limit
Total Chloride	18.5	mg/L	8.6		8.00	124	80		120		20
Total Sulfate	14.3	mg/L	6.0		8.00	104	80		120		20

Folder #: 115269

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Duplicate

Analytical Run #:	120793	Analysis Date:	11/10/2015	Prep Batch #: Prep Date/Time:	Matrix:	GROUND WATER
CTLab #:	656426	Analysis Time:	21:57		Method:	SW9060
Parent Sample #:	655235	Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Total Organic Carbon	1.97	mg/L	2.3					15	20	

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

				Lab Contro	l Spike Wate	r					
Analytical Run #: CTLab #: Parent Sample #:	120793 656419	,		11/10/2015 15:36 JJF	Prep Batch #: Prep Date/Time: Prep Analyst:			Matrix: Method:		LIQUID SW9060	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
otal Organic Carbon		47.05	mg/L			50.00	94	85 111			

SDG #: 0 Folder #: 115269 ELECTROPLATING
Project Number: 117-7413001.01

				Method E	Blank Water					
Analytical Run #: CTLab #: Parent Sample #:	120793 656420	•	is Date: is Time: it:	11/10/2015 15:50 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix: Method:	LIQUII SW90	
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		0.4	mg/L		U	0		0.4		

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

				Matrix Spike	Duplicate Wa	nter						
Analytical Run #: CTLab #: Parent Sample #:	120793 656428 656427	•	sis Date: sis Time: st:	11/10/2015 22:22 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matr Meth			GROL SW90	IND WATER 60
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ntro	-	RPD	RPD Limit
otal Organic Carbon		50.3	mg/L	2.3		50.0	96	82		119	1	6

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SDG #: 0 Folder #: 115269 ELECTROPLATING
Project Number: 117-7413001.01

				Matrix S	pike Water							
Analytical Run #: CTLab #: Parent Sample #:	120793 656427 655235	•	is Date: is Time: it:	11/10/2015 22:08 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix Metho			GROL SW90	JND WATER 60
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Cor Lin	ntrol nits		RPD	RPD Limit
otal Organic Carbon		49.7	mg/L	2.3		50.0	95	82		119		6

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Analytical Run #:	120777	Analysis Date:	11/11/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	658801	Analysis Time:	20:23	Prep Date/Time:	Method:	SW6010
Parent Sample #:	658800	Analyst:	DC	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	1.62	mg/L	BDL		2.00	81	72 113	0	18
Manganese	1050	ug/L	BDL		1000	105	67 121	5	13

Date Printed: 12/4/2015

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

SDG #: 0 Folder #: 115269

Matrix Spike Water

Analytical Run #: CTLab #:	120777 658800	Analysis Date: Analysis Time:	11/11/2015 20:17	Prep Batch #: Prep Date/Time:	Matrix: Method:	GROUND WATER SW6010
Parent Sample #:	655236	Analyst:	DC	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPI	D RPD Limit
Iron	1.62	mg/L	BDL		2.00	81	72	113	18
Manganese	996	ug/L	BDL		1000	100	67	121	13

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Lab Control Spike Water	er
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Analytical Run #:	120989	Analysis Date:	11/17/2015	Prep Batch #:	55106	Matrix:	LIQUID
CTLab #:	658996	Analysis Time:	17:12	Prep Date/Time:	11/16/201512:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.4190	mg/L			0.4000	105	80 115		
Manganese	211.0	ug/L			200.0	106	86 112		

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

SDG #: 0 Folder #: 115269

Analytical Run #:	120989	Analysis Date:	11/17/2015	Prep Batch #:	55106	Matrix:	LIQUID
CTLab #:	658995	Analysis Time:	17:17	Prep Date/Time:	11/16/201512:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.02	mg/L		U	0		0.02		
Manganese	1.4	ug/L		U	0		1.4		

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Lab Control Spike Water	er
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Analytical Run #:	120990	Analysis Date:	11/18/2015	Prep Batch #:	55107	Matrix:	LIQUID
CTLab #:	659000	Analysis Time:	11:20	Prep Date/Time:	11/16/201512:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.3360	mg/L	Todak		0.4000	84	80 115		
Manganese	216.0	ug/L			200.0	108	86 112		

Date Printed: 12/4/2015

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

SDG #: 0 Folder #: 115269

Method Blank Water

Analytical Run #:	120990	Analysis Date:	11/18/2015	Prep Batch #:	55107	Matrix:	LIQUID
CTLab #:	658999	Analysis Time:	11:25	Prep Date/Time:	11/16/201512:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

-									
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.02	mg/L		U	0		0.02		
Manganese	1.4	ug/L		U	0		1.4		

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Analytical Run #: CTLab #:	120990 659002	Analysis Date: Analysis Time:	11/18/2015 11:59	Prep Batch #: Prep Date/Time:	55107 11/16/201 <i>5</i> 12:00	Matrix: Method:	GROUND WATER SW6010
Parent Sample #:	659001	Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	1.02	mg/L	0.628		0.400	98	72 118	6	11
Manganese	228	ug/L	31.8		200	98	84 111	1	7

Folder #: 115269

ELECTROPLATING

Project Number: 117-7413001.01

Matrix	Spike	Water

ſ	Analytical Run #:	120990	Analysis Date:	11/18/2015	Prep Batch #:	55107	Matrix:	GROUND WATER
	CTLab #:	659001	Analysis Time:	11:53	Prep Date/Time:	11/16/201512:00	Method:	SW6010
	Parent Sample #:	655233	Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.962	mg/L	0.628		0.400	84	72 118		
Manganese	230	ug/L	31.8		200	99	84 111		

Date Printed: 12/4/2015

SDG #: 0

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #:	120729	Analysis Date:	11/19/2015	Prep Batch #:	Matrix:	LIQUID	
CTLab #:	660616	Analysis Time:	09:05	Prep Date/Time:	Method:	SW8260C	
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Con Lin		RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.07	ug/L			4.00	102	74 -	127		
1,1,1-Trichloroethane	4.67	ug/L			4.00	117	73 -	132		
1,1,2,2-Tetrachloroethane	4.09	ug/L			4.00	102	67 -	129		
1,1,2-Trichloroethane	4.39	ug/L			4.00	110	73 -	129		
1,1-Dichloroethane	4.54	ug/L			4.00	114	73 -	129		
1,1-Dichloroethene	4.68	ug/L			4.00	117	73 -	132		
1,1-Dichloropropene	4.57	ug/L			4.00	114	75 -	125		
1,2 Dichloroethane-d4	95.0	% Recovery			100	95.0	68 -	120		
1,2,3-Trichlorobenzene	3.85	ug/L			4.00	96	72 -	125		
1,2,3-Trichloropropane	3.97	ug/L			4.00	99	68 -	136		
1,2,4-Trichlorobenzene	3.78	ug/L			4.00	94	67 -	124		
1,2,4-Trimethylbenzene	4.30	ug/L			4.00	108	77 -	123		
1,2-Dibromo-3-chloropropane	3.26	ug/L			4.00	82	56 -	138		
1,2-Dibromoethane	4.01	ug/L			4.00	100	76 -	127		
1,2-Dichlorobenzene	4.01	ug/L			4.00	100	82 -	120		
1,2-Dichloroethane	4.54	ug/L			4.00	114	72 -	134		
1,2-Dichloropropane	4.40	ug/L			4.00	110	76 -	124		
1,3,5-Trimethylbenzene	4.29	ug/L			4.00	107	77 -	124		
1,3-Dichlorobenzene	4.05	ug/L			4.00	101	81 -	120		
1,3-Dichloropropane	4.39	ug/L			4.00	110	76 -	125		
1,4-Dichlorobenzene	3.85	ug/L			4.00	96	80 -	120		
2,2-Dichloropropane	4.65	ug/L			4.00	116	54 -	144		
2-Butanone	43.2	ug/L			40.0	108	57 -	144		
2-Chlorotoluene	4.08	ug/L			4.00	102	77 -	123		
2-Hexanone	38.9	ug/L			40.0	97	61 -	132		
4-Chlorotoluene	4.22	ug/L			4.00	106	76 -	124		
4-Methyl-2-pentanone	43.1	ug/L			40.0	108	64 -	135		
Acetone	41.2	ug/L			40.0	103	51 -	152		
Benzene	4.56	ug/L			4.00	114	80 -	122		
Bromobenzene	3.81	ug/L			4.00	95	81 -	120		
Bromochloromethane	4.48	ug/L			4.00	112	78 -	126		
Bromodichloromethane	4.48	ug/L			4.00	112	67 -	132		
Bromofluorobenzene	96.0	% Recovery			100	96.0	68 -	120		
Bromoform	3.79	ug/L			4.00	95	55 -	132		
Bromomethane	4.79	ug/L			4.00	120	65 -	141		
Carbon disulfide	9.14	ug/L			8.00	114	61 -	140		
Carbon tetrachloride	4.73	ug/L			4.00	118	72 -	133		
Chlorobenzene	4.16	ug/L			4.00	104	80 -	122		
Chloroethane	4.60	ug/L			4.00	115	71 -	134		
Chloroform	4.56	ug/L			4.00	114	73 -	127		
Chloromethane	4.37	ug/L			4.00	109	72 -	128		
cis-1,2-Dichloroethene	4.46	ug/L			4.00	112	76 -	127		

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ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #: CTLab #:	120729 660616	Analysis Date: Analysis Time:	11/19/2015 09:05	Prep Batch #: Prep Date/Time:	Matrix: Method:	LIQUID SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	4.54	ug/L			4.00	114	72 125		
d8-Toluene	105	% Recovery			100	105	71 117		
Dibromochloromethane	3.95	ug/L			4.00	99	60 131		
Dibromofluoromethane	107	% Recovery			100	107	67 121		
Dibromomethane	4.38	ug/L			4.00	110	76 129		
Dichlorodifluoromethane	4.61	ug/L			4.00	115	64 149		
Diisopropyl ether	4.41	ug/L			4.00	110	62 137		
thylbenzene	4.31	ug/L			4.00	108	80 121		
lexachlorobutadiene	3.50	ug/L			4.00	88	71 131		
sopropylbenzene	4.35	ug/L			4.00	109	75 122		
n & p-Xylene	8.64	ug/L			8.00	108	80 121		
Methyl tert-butyl ether	4.17	ug/L			4.00	104	63 135		
lethylene chloride	3.96	ug/L			4.00	99	38 174		
-Butylbenzene	4.60	ug/L			4.00	115	71 125		
-Propylbenzene	4.44	ug/L			4.00	111	76 122		
laphthalene	3.76	ug/L			4.00	94	64 126		
-Xylene	4.14	ug/L			4.00	104	77 120		
-Isopropyltoluene	4.40	ug/L			4.00	110	76 122		
ec-Butylbenzene	4.39	ug/L			4.00	110	75 122		
Styrene	4.21	ug/L			4.00	105	76 121		
ert-Butylbenzene	4.28	ug/L			4.00	107	77 120		
etrachloroethene	4.37	ug/L			4.00	109	75 127		
etrahydrofuran	41.0	ug/L			40.0	102	60 131		
oluene	4.65	ug/L			4.00	116	80 122		
ans-1,2-Dichloroethene	4.49	ug/L			4.00	112	68 136		
ans-1,3-Dichloropropene	4.42	ug/L			4.00	110	65 126		
richloroethene	4.49	ug/L			4.00	112	78 126		
richlorofluoromethane	4.42	ug/L			4.00	110	70 145		
inyl acetate	45.4	ug/L			40.0	114	38 152		
'inyl chloride	4.77	ug/L			4.00	119	71 135		

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	120729	Analysis Date:	11/19/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	660721	Analysis Time:	10:02	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.05	ug/L		U	0		0.05		
1,1,1-Trichloroethane	0.06	ug/L		U	0		0.06		
1,1,2,2-Tetrachloroethane	0.020	ug/L		U	0		0.020		
1,1,2-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1-Dichloroethane	0.06	ug/L		U	0		0.06		
1,1-Dichloroethene	0.07	ug/L		U	0		0.07		
1,1-Dichloropropene	0.06	ug/L		U	0		0.06		
1,2 Dichloroethane-d4	89.0	% Recovery			100	89.0	68 120		
1,2,3-Trichlorobenzene	0.05	ug/L		U	0		0.05		
1,2,3-Trichloropropane	0.04	ug/L		U	0		0.04		
1,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,4-Trimethylbenzene	0.05	ug/L		U	0		0.05		
1,2-Dibromo-3-chloropropane	0.03	ug/L		U	0		0.03		
1,2-Dibromoethane	0.04	ug/L		U	0		0.04		
1,2-Dichlorobenzene	0.06	ug/L		U	0		0.06		
1,2-Dichloroethane	0.04	ug/L		U	0		0.04		
1,2-Dichloropropane	0.06	ug/L		U	0		0.06		
1,3,5-Trimethylbenzene	0.06	ug/L		U	0		0.06		
1,3-Dichlorobenzene	0.06	ug/L		U	0		0.06		
1,3-Dichloropropane	0.04	ug/L		U	0		0.04		
1,4-Dichlorobenzene	0.05	ug/L		U	0		0.05		
2,2-Dichloropropane	0.04	ug/L		U	0		0.04		
2-Butanone	0.8	ug/L		U	0		0.8		
2-Chlorotoluene	0.06	ug/L		U	0		0.06		
2-Hexanone	0.4	ug/L		U	0		0.4		
4-Chlorotoluene	0.05	ug/L		U	0		0.05		
4-Methyl-2-pentanone	0.4	ug/L		U	0		0.4		
Acetone	0.9	ug/L		U	0		0.9		
Benzene	0.06	ug/L		U	0		0.06		
Bromobenzene	0.04	ug/L		U	0		0.04		
Bromochloromethane	0.017	ug/L		U	0		0.017		
Bromodichloromethane	0.017	ug/L		U	0		0.017		
Bromofluorobenzene	99.0	% Recovery			100	99.0	68 120		
Bromoform	0.018	ug/L		U	0		0.018		
Bromomethane	0.09	ug/L		U	0		0.09		
Carbon disulfide	0.11	ug/L		U	0		0.11		
Carbon tetrachloride	0.06	ug/L		U	0		0.06		
Chlorobenzene	0.04	ug/L		Ū	0		0.04		
Chloroethane	0.06	ug/L		U	0		0.06		
Chloroform	0.06	ug/L		U	0		0.06		
Chloromethane	0.05	ug/L		U	0		0.05		
cis-1,2-Dichloroethene	0.06	ug/L		U	0		0.06		

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ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	120729	Analysis Date:	11/19/2015	Prep Batch #:	Matrix:	LIQUID
CTLab #:	660721	Analysis Time:	10:02	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent Qua sample result	alifier(s) Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.015	ug/L	U	0		0.015		
d8-Toluene	104	% Recovery		100	104	71 117		
Dibromochloromethane	0.016	ug/L	U	0		0.016		
Dibromofluoromethane	104	% Recovery		100	104	67 122		
Dibromomethane	0.06	ug/L	U	0		0.06		
Dichlorodifluoromethane	0.06	ug/L	U	0		0.06		
Diisopropyl ether	0.04	ug/L	U	0		0.04		
Ethylbenzene	0.06	ug/L	U	0		0.06		
Hexachlorobutadiene	0.07	ug/L	U	0		0.07		
sopropylbenzene	0.05	ug/L	U	0		0.05		
n & p-Xylene	0.12	ug/L	U	0		0.12		
Methyl tert-butyl ether	0.04	ug/L	U	0		0.04		
Methylene chloride	0.06	ug/L	U	0		0.06		
n-Butylbenzene	0.05	ug/L	U	0		0.05		
n-Propylbenzene	0.05	ug/L	U	0		0.05		
Naphthalene	0.05	ug/L	U	0		0.05		
o-Xylene	0.05	ug/L	U	0		0.05		
o-Isopropyltoluene	0.06	ug/L	U	0		0.06		
sec-Butylbenzene	0.05	ug/L	U	0		0.05		
Styrene	0.05	ug/L	U	0		0.05		
ert-Butylbenzene	0.06	ug/L	U	0		0.06		
Tetrachloroethene	0.06	ug/L	U	0		0.06		
Tetrahydrofuran	0.6	ug/L	U	0		0.6		
Toluene	0.06	ug/L	U	0		0.06		
rans-1,2-Dichloroethene	0.06	ug/L	U	0		0.06		
rans-1,3-Dichloropropene	0.014	ug/L	U	0		0.014		
richloroethene	0.03	ug/L	U	0		0.03		
richlorofluoromethane	0.05	ug/L	U	0		0.05		
/inyl acetate	0.5	ug/L	U	0		0.5		
/inyl chloride	0.016	ug/L	U	0		0.016		

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analytical Run #:	120729	Analysis Date:	11/19/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	661113	Analysis Time:	14:46	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	661083	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imits		RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.69	ug/L	BDL		4.00	92	71		136	1	21
1,1,1-Trichloroethane	4.26	ug/L	BDL		4.00	106	77		150	1	20
1,1,2,2-Tetrachloroethane	3.62	ug/L	BDL		4.00	90	68		139	0	22
1,1,2-Trichloroethane	3.89	ug/L	BDL		4.00	97	70		139	2	25
1,1-Dichloroethane	4.10	ug/L	BDL		4.00	102	65		149	1	25
1,1-Dichloroethene	4.29	ug/L	BDL		4.00	107	56		164	2	24
1,1-Dichloropropene	4.29	ug/L	BDL		4.00	107	65		146	1	21
1,2 Dichloroethane-d4	89.0	% Recovery			100	89.0	65		128		7
1,2,3-Trichlorobenzene	3.49	ug/L	BDL		4.00	87	62		135	0	31
1,2,3-Trichloropropane	3.07	ug/L	BDL		4.00	77	66		145	5	26
1,2,4-Trichlorobenzene	3.35	ug/L	BDL		4.00	84	61		132	2	29
1,2,4-Trimethylbenzene	3.95	ug/L	BDL		4.00	99	1		154	2	36
1,2-Dibromo-3-chloropropane	2.79	ug/L	BDL		4.00	70	49		144	9	34
1,2-Dibromoethane	3.54	ug/L	BDL		4.00	88	76		132	2	22
1,2-Dichlorobenzene	3.65	ug/L	BDL		4.00	91	78		128	2	23
1,2-Dichloroethane	4.00	ug/L	BDL		4.00	100	70		147	2	21
1,2-Dichloropropane	4.02	ug/L	BDL		4.00	100	72		138	2	19
1,3,5-Trimethylbenzene	3.98	ug/L	BDL		4.00	100	1		151	2	34
1,3-Dichlorobenzene	3.74	ug/L	BDL		4.00	94	78		127	0	22
1,3-Dichloropropane	4.00	ug/L	BDL		4.00	100	73		136	1	23
1,4-Dichlorobenzene	3.55	ug/L	BDL		4.00	89	78		127	2	22
2,2-Dichloropropane	4.25	ug/L	BDL		4.00	106	50		165	1	21
2-Butanone	35.2	ug/L	BDL		40.0	88	45		160	0	29
2-Chlorotoluene	3.74	ug/L	BDL		4.00	94	74		130	3	20
2-Hexanone	33.6	ug/L	BDL		40.0	84	55		143	2	28
4-Chlorotoluene	3.88	ug/L	BDL		4.00	97	57		131	3	22
4-Methyl-2-pentanone	38.3	ug/L	BDL		40.0	96	58		146	1	29
Acetone	25.6	ug/L	BDL		40.0	64	27		172	1	39
Benzene	4.15	ug/L	BDL		4.00	104	81		134	1	17
Bromobenzene	3.46	ug/L	BDL		4.00	86	80		127	3	20
Bromochloromethane	3.88	ug/L	BDL		4.00	97	73		143	4	22
Bromodichloromethane	3.95	ug/L	BDL		4.00	99	64		139	2	20
Bromofluorobenzene	97.0	% Recovery			100	97.0	67		120		7
Bromoform	2.99	ug/L	BDL		4.00	75	49		125	7	28
Bromomethane	3.40	ug/L	BDL		4.00	85	59		167	15	34
Carbon disulfide	8.51	ug/L	BDL		8.00	106	12		140	2	31
Carbon tetrachloride	4.32	ug/L	BDL		4.00	108	74		153	1	20
Chlorobenzene	3.83	ug/L	BDL		4.00	96	82		130	3	21
Chloroethane	5.66	ug/L	BDL		4.00	142	64		165	2	26
Chloroform	4.10	ug/L	BDL		4.00	102	73		138	3	18
Chloromethane	3.67	ug/L	BDL		4.00	92	62		157	2	21
cis-1,2-Dichloroethene	4.08	ug/L	BDL		4.00	102	75		152	1	21

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ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analytical Run #:	120729	Analysis Date:	11/19/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	661113	Analysis Time:	14:46	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	661083	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imit		RPD	RPD Limit
cis-1,3-Dichloropropene	3.77	ug/L	BDL		4.00	94	61		129	0	21
d8-Toluene	106	% Recovery			100	106	60		119		7
Dibromochloromethane	3.46	ug/L	BDL		4.00	86	56		130	1	23
Dibromofluoromethane	106	% Recovery			100	106	65		128		7
Dibromomethane	3.92	ug/L	BDL		4.00	98	71		142	1	21
Dichlorodifluoromethane	4.03	ug/L	BDL		4.00	101	62		196	0	22
Diisopropyl ether	3.97	ug/L	BDL		4.00	99	46		161	2	27
Ethylbenzene	3.96	ug/L	BDL		4.00	99	52		139	2	24
Hexachlorobutadiene	3.40	ug/L	BDL		4.00	85	66		147	1	30
Isopropylbenzene	4.00	ug/L	BDL		4.00	100	50		135	2	24
m & p-Xylene	7.90	ug/L	BDL		8.00	99	1		156	4	28
Methyl tert-butyl ether	3.79	ug/L	BDL		4.00	95	46		161	1	33
Methylene chloride	3.44	ug/L	BDL		4.00	86	10		181	2	36
n-Butylbenzene	4.25	ug/L	BDL		4.00	106	46		144	2	24
n-Propylbenzene	4.10	ug/L	BDL		4.00	102	51		139	2	23
Naphthalene	3.37	ug/L	BDL		4.00	84	45		135	2	31
o-Xylene	3.77	ug/L	BDL		4.00	94	11		148	4	26
o-Isopropyltoluene	4.04	ug/L	BDL		4.00	101	18		148	3	27
sec-Butylbenzene	4.18	ug/L	BDL		4.00	104	57		138	2	23
Styrene	3.80	ug/L	BDL		4.00	95	1		159	3	40
ert-Butylbenzene	4.00	ug/L	BDL		4.00	100	74		132	3	22
Tetrachloroethene	4.05	ug/L	BDL		4.00	101	79		144	2	21
Tetrahydrofuran	36.3	ug/L	BDL		40.0	91	51		139	1	28
Toluene	4.14	ug/L	BDL		4.00	104	56		141	4	19
rans-1,2-Dichloroethene	4.07	ug/L	BDL		4.00	102	53		161	2	28
rans-1,3-Dichloropropene	3.67	ug/L	BDL		4.00	92	57		124	3	21
Trichloroethene	4.14	ug/L	BDL		4.00	104	74		138	4	19
Trichlorofluoromethane	4.68	ug/L	BDL		4.00	117	83		174	3	23
Vinyl acetate	41.8	ug/L	BDL		40.0	104	0		198	0	25
Vinyl chloride	4.88	ug/L	BDL		4.00	122	65		168	1	21

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Matrix Spike Water

Analytical Run #:	120729	Analysis Date:	11/19/2015	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	661083	Analysis Time:	14:18	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	655226	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		imits		RPD	RPD Limit	
1,1,1,2-Tetrachloroethane	3.73	ug/L	BDL		4.00	93	71		136		21	
1,1,1-Trichloroethane	4.32	ug/L	BDL		4.00	108	77		150		20	
1,1,2,2-Tetrachloroethane	3.62	ug/L	BDL		4.00	90	68		139		22	
1,1,2-Trichloroethane	3.97	ug/L	BDL		4.00	99	70		139		25	
1,1-Dichloroethane	4.13	ug/L	BDL		4.00	103	65		149		25	
1,1-Dichloroethene	4.39	ug/L	BDL		4.00	110	56		164		24	
1,1-Dichloropropene	4.33	ug/L	BDL		4.00	108	65		146		21	
1,2 Dichloroethane-d4	95.0	% Recovery			100	95.0	65		128		7	
1,2,3-Trichlorobenzene	3.48	ug/L	BDL		4.00	87	62		135		31	
1,2,3-Trichloropropane	2.91	ug/L	BDL		4.00	73	66		145		26	
1,2,4-Trichlorobenzene	3.40	ug/L	BDL		4.00	85	61		132		29	
1,2,4-Trimethylbenzene	4.04	ug/L	BDL		4.00	101	1		154		36	
1,2-Dibromo-3-chloropropane	3.04	ug/L	BDL		4.00	76	49		144		34	
1,2-Dibromoethane	3.60	ug/L	BDL		4.00	90	76		132		22	
1,2-Dichlorobenzene	3.71	ug/L	BDL		4.00	93	78		128		23	
1,2-Dichloroethane	4.09	ug/L	BDL		4.00	102	70		147		21	
1,2-Dichloropropane	4.09	ug/L	BDL		4.00	102	72		138		19	
1,3,5-Trimethylbenzene	4.07	ug/L	BDL		4.00	102	1		151		34	
1,3-Dichlorobenzene	3.73	ug/L	BDL		4.00	93	78		127		22	
1,3-Dichloropropane	3.97	ug/L	BDL		4.00	99	73		136		23	
1,4-Dichlorobenzene	3.63	ug/L	BDL		4.00	91	78		127		22	
2,2-Dichloropropane	4.19	ug/L	BDL		4.00	105	50		165		21	
2-Butanone	35.1	ug/L	BDL		40.0	88	45		160		29	
2-Chlorotoluene	3.85	ug/L	BDL		4.00	96	74		130		20	
2-Hexanone	34.2	ug/L	BDL		40.0	86	55		143		28	
4-Chlorotoluene	3.99	ug/L	BDL		4.00	100	57		131		22	
4-Methyl-2-pentanone	38.1	ug/L	BDL		40.0	95	58		146		29	
Acetone	25.9	ug/L	BDL		40.0	65	27		172		39	
Benzene	4.20	ug/L	BDL		4.00	105	81		134		17	
Bromobenzene	3.57	ug/L	BDL		4.00	89	80		127		20	
Bromochloromethane	4.04	ug/L	BDL		4.00	101	73		143		22	
Bromodichloromethane	4.01	ug/L	BDL		4.00	100	64		139		20	
Bromofluorobenzene	94.0	% Recovery			100	94.0	67		120		7	
Bromoform	3.20	ug/L	BDL		4.00	80	49		125		28	
Bromomethane	3.96	ug/L	BDL		4.00	99	59		167		34	
Carbon disulfide	8.69	ug/L	BDL		8.00	109	12		140		31	
Carbon tetrachloride	4.37	ug/L	BDL		4.00	109	74		153		20	
Chlorobenzene	3.93	ug/L	BDL		4.00	98	82		130		21	
Chloroethane	5.52	ug/L	BDL		4.00	138	64		165		26	
Chloroform	4.21	ug/L	BDL		4.00	105	73		138		18	
Chloromethane	3.76	ug/L	BDL		4.00	94	62		157		21	
cis-1,2-Dichloroethene	4.11	ug/L	BDL		4.00	103	75		152		21	

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ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Matrix Spike Water

Ana	lytical Run #:	120729	Analysis Date:	11/19/2015	Prep Batch #:	Matrix:	GROUND WATER
CTL	_ab #:	661083	Analysis Time:	14:18	Prep Date/Time:	Method:	SW8260C
Pare	ent Sample #:	655226	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro Limit		RPD	RPD Limit
cis-1,3-Dichloropropene	3.77	ug/L	BDL		4.00	94	61		129		21
d8-Toluene	104	% Recovery			100	104	60		119		7
Dibromochloromethane	3.48	ug/L	BDL		4.00	87	56		130		23
Dibromofluoromethane	109	% Recovery			100	109	65		128		7
Dibromomethane	3.98	ug/L	BDL		4.00	100	71		142		21
Dichlorodifluoromethane	4.04	ug/L	BDL		4.00	101	62		196		22
Diisopropyl ether	4.04	ug/L	BDL		4.00	101	46		161		27
Ethylbenzene	4.06	ug/L	BDL		4.00	102	52		139		24
Hexachlorobutadiene	3.44	ug/L	BDL		4.00	86	66		147		30
sopropylbenzene	4.09	ug/L	BDL		4.00	102	50		135		24
n & p-Xylene	8.18	ug/L	BDL		8.00	102	1		156		28
Methyl tert-butyl ether	3.74	ug/L	BDL		4.00	94	46		161		33
Methylene chloride	3.51	ug/L	BDL		4.00	88	10		181		36
n-Butylbenzene	4.36	ug/L	BDL		4.00	109	46		144		24
n-Propylbenzene	4.19	ug/L	BDL		4.00	105	51		139		23
Naphthalene	3.32	ug/L	BDL		4.00	83	45		135		31
o-Xylene	3.91	ug/L	BDL		4.00	98	11		148		26
o-Isopropyltoluene	4.17	ug/L	BDL		4.00	104	18		148		27
sec-Butylbenzene	4.25	ug/L	BDL		4.00	106	57		138		23
Styrene	3.91	ug/L	BDL		4.00	98	1		159		40
ert-Butylbenzene	4.11	ug/L	BDL		4.00	103	74		132		22
etrachloroethene	4.12	ug/L	BDL		4.00	103	79		144		21
Tetrahydrofuran	36.1	ug/L	BDL		40.0	90	51		139		28
Toluene	4.32	ug/L	BDL		4.00	108	56		141		19
rans-1,2-Dichloroethene	4.15	ug/L	BDL		4.00	104	53		161		28
ans-1,3-Dichloropropene	3.77	ug/L	BDL		4.00	94	57		124		21
richloroethene	4.32	ug/L	BDL		4.00	108	74		138		19
richlorofluoromethane	4.81	ug/L	BDL		4.00	120	83		174		23
/inyl acetate	41.6	ug/L	BDL		40.0	104	0		198		25
/inyl chloride	4.93	ug/L	BDL		4.00	123	65		168		21

Folder #: 115269

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Lab	Conti	ia2 Io	ke Water
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Analytical Run #: CTLab #:	120878 657380	Analysis Date: Analysis Time:	11/12/2015 08:43	Prep Batch #: Prep Date/Time:	55061 11/12/201 5 07:25	Matrix: Method:	LIQUID RSK175
Parent Sample #:		Analyst:	BMS	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Con Lim		RPD	RPD Limit
Acetylene	2.88	ug/L			3.07	94	70 -	130		20
Ethane	5.29	ug/L			4.78	111	70 -	130		20
Ethene	7.58	ug/L			6.79	112	65 -	124		20
Methane	2.49	ug/L			2.29	109	70 -	130		20

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

SDG #: 0 Folder #: 115269

Method Blank Water

-									
	Analytical Run #:	120878	Analysis Date:	11/12/2015	Prep Batch #:	55061	Matrix:	LIQUID	
	CTLab #:	657379	Analysis Time:	08:55	Prep Date/Time:	11/12/201507:25	Method:	RSK175	Į.
	Parent Sample #:		Analyst:	BMS	Prep Analyst:	BMS			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Acetylene	0.23	ug/L		U	0		0.23		
Ethane	0.9	ug/L		U	0		0.9		
Ethene	1.2	ug/L		U	0		1.2		
Methane	0.4	ug/L		U	0		0.4		

ELECTROPLATING

SDG #: 0 Folder #: 115269 Project Number: 117-7413001.01

Analytical Run #:	120878	Analysis Date:	11/12/2015	Prep Batch #:	55061	Matrix:	GROUND WATER
CTLab #:	657384	Analysis Time:	10:23	Prep Date/Time:	11/12/201507:25	Method:	RSK175
Parent Sample #:	657383	Analyst:	BMS	Prep Analyst:	BMS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imit		RPD	RPD Limit
Acetylene	2.76	ug/L	BDL		3.07	90	70		130	2	20
Ethane	6.48	ug/L	BDL		4.78	136	70		130	31	20
Ethene	9.19	ug/L	BDL		6.79	135	41		138	29	43
Methane	2.92	ug/L	BDL		2.29	128	70		130	22	20

Folder #: 115269

SDG #: 0

Project Name: OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Matrix	SI	oike	Water
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Г								
	Analytical Run #:	120878	Analysis Date:	11/12/2015	Prep Batch #:	55061	Matrix:	GROUND WATER
	CTLab #:	657383	Analysis Time:	10:13	Prep Date/Time:	11/12/201507:25	Method:	RSK175
	Parent Sample #:	655235	Analyst:	BMS	Prep Analyst:	BMS		
			•					

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Acetylene	2.82	ug/L	BDL		3.07	92	70 130		
Ethane	4.72	ug/L	BDL		4.78	99	70 130		
Ethene	6.84	ug/L	BDL		6.79	101	41 138		
Methane	2.34	ug/L	BDL		2.29	102	70 130		



Sample Condition Report

Folder #: 115269 Client: TETRA TECH Print Date / Time:

11/09/2015 11/07/2015 09:04

1030

0904

Project Name: OCONOMOWOC ELECTROPLATING

Log-In Date / Time / By:

Υ

Received Date / Time / By:

11/09/2015

JLS

DJL

Project Phase:

Project #:

117-7413001.01

PM: PML

Coolers: 5689 Custody Seals Present: N Temperature: COC Present:?

3.8 C Complete?

Υ On Ice:

Ν

Numbers:

NONE

Seal Intact? Ship Method:

FEDEX EXPRESS

Tracking Number:

774925027830

Adequate Packaging: Y

Temp Blank Enclosed?

Υ

Notes: SAMPLES RECEIVED IN GOOD CONDITION ON ICE NO CUSTODY SEALS PRESENT

Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
655226 MW-15B	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
	Total # 01 Containers of Type (ONFILE FE) = 1	
655226 MW-15B		
	VOA HCL 1 /	GAS, VOC
	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS, VOC
	VOA HCL 1 /	GAS, VOC
	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS,VOC
	Total # of Containers of Type (VOA HCL) = 6	0A0, V00
	Total # of Containers of Type (VOA NCL) = 0	
655226 MW-15B		
	HNO3 1 Y /	ICP
	Total # of Containers of Type (HNO3) = 1	
655226 MW-15B		
	H2SO4 PL 1 Y /	TOC
	Total # of Containers of Type $(H2SO4 PL) = 1$	
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
655227 MW-15B		
	HNO3 1 Y /	ICP
	Total # of Containers of Type (HNO3) = 1	
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
655228 MW-15S	Container Type Conta. Code pri Ort : /Filterett :	16919
UJJEEU IVIVV-100		

115269

		UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
655228	MW-15S	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
655228	MW-15S	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
655228	MW-15S	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	TOC
Sample ID	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
655229	MW-15S	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
555230	MW-15D	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
555230	MW-15D	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
555230	MW-15D	HNO3 1 Y / Total # of Containers of Type (<i>HNO3</i>) = 1	ICP
55230	MW-15D	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	TOC
ample ID	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
555231	MW-15D	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP

115269

Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
655232 PW-11		
000202 1 W-11	VOA HCL 1 /	VOC
	VOA HCL 1 /	VOC
	VOA HCL 1 /	VOC
	Total # of Containers of Type (VOA HCL) = 3	VOO
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
6 55233 MW-102D		
	UNPRES PL 1 /	ALK, Anions
	Total # of Containers of Type $(UNPRES PL) = 1$	
55233 MW-102D		
022	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS, VOC
	VOA HOL	GAS,VOC
	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS,VOC
	Total # of Containers of Type $(VOA HCL) = 6$	
5 55233 MW-102D		
	HNO3 1 Y /	ICP
	Total # of Containers of Type (HNO3) = 1	
655233 MW-102D	LIOCO A DI	T00
	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	TOC
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
655234 MW-102D		
	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
·		
655235 MW-102S	(MIDDEO D)	
	UNPRES PL 1 /	ALK,Anions
	Total # of Containers of Type $(UNPRES PL) = 1$	
55235 MW-102S		
	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS,VOC
	VOA HCL 1 /	GAS,VOC
	VOA HCI 1 /	
	VOA HCL 1 / VOA HCL 1 /	GAS,VOC GAS,VOC

_	_		•	_		
h	•	'	วว	•	M/M-102S	

HNO3 1 Y /	ICP
Total # of Containers of Type (HNO3) = 1	
H2SO4 PL 1 Y /	TOC
Total # of Containers of Type (H2SO4 PL) = 1	
Container Type Cond. Code pH OK?/Filtered?	Tests
HNO3 1 Y /	ICP
Total # of Containers of Type (HNO3) = 1	
Container Type Cond. Code pH OK?/Filtered?	Tests
VOA HCL 1 /	VOC
	VOC
	VOC
Total # of Containers of Type (VOA HCL) = 3	
Container Type Cond. Code pH OK?/Filtered?	Tests
Trip Blank 1 /	VOC
Trip Blank 1 /	VOC
	Total # of Containers of Type (HNO3) = 1 H2SO4 PL

Condition CodeCondition Description1Sample Received OK

delivering more than data from your environmental analyses

ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



CT Laboratories LLC ● 1230 Lange Court ● Baraboo, WI 53913 ● 608-356-2760 www.ctlaboratories.com

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CT LAB Sample#: 721951 Sample Description: MW-101S

REVISED ANALYTICAL REPORT

TETRA TECH

MARK MANTHEY

175 N CORPORATE DRIVE

SUITE 100

BROOKFIELD, WI 53045

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project Phase:

Contract #: 2747

Project #: 117-7413001.01

Folder #: 118915

Purchase Order #:

0.020 *

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Arrival Temperature: 2.4

Report Date: 05/27/2016

Date Received: 05/11/2016

Reprint Date:

05/16/2016 10:00 05/16/2016 15:54 NAH EPA 6010C

License/Well #: 4189/035

06/17/2016

Sampled: 05/10/2016 1230

Revision Date 06/17/2016

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time		Method
Field Results										
Dissolved Oxygen (Field)	2.62	mg/L	N/A	N/A	1			05/10/2016 00	:00 SUB	
OX/REDOX (Field)	336	MV	N/A	N/A	1			05/10/2016 00	:00 SUB	
Color (Field)	clear		N/A	N/A	1			05/10/2016 00	:00 SUB	FIELD
Conductivity (Field)	3180	umhos/cm	N/A	N/A	1			05/10/2016 00	:00 SUB	FIELD
pH (Field)	6.82	S.U.	N/A	N/A	1			05/10/2016 00	:00 SUB	FIELD
Temperature (Field)	9.98	Deg. C	N/A	N/A	1			05/10/2016 00	:00 SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/10/2016 00	:00 SUB	FIELD
Inorganic Results										
Alkalinity Total	330	mg/L	5.0	18	1			05/12/2016 16	:30 MER	EPA 310.2
Total Chloride	830	mg/L	35	120	50			05/18/2016 18	:52 JJF	EPA 9056A
Total Sulfate	26	mg/L	0.50	1.8	1			05/18/2016 10	:26 JJF	EPA 9056A
Total Organic Carbon	6.5	mg/L	0.50	1.7	1	Υ		05/23/2016 13	:27 JJF	EPA 9060A

0.065

1

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

mg/L

0.0458

Metals Results

Total Iron

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 118915

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	lyst Method
Total Manganese	68.6	ug/L	1.4	4.7	1		05/16/2016 10:00	05/16/2016 15:54	NAH EPA 6010C
Organic Results									
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 11:52	AMA Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 11:52	AMA Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 11:52	AMA Mod RSK 175
Methane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 11:52	AMA Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 18:46	RLD EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:46	RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1	Υ		05/19/2016 18:46	RLD EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/19/2016 18:46	RLD EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:46	RLD EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/19/2016 18:46	RLD EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:46	RLD EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1	Υ		05/19/2016 18:46	RLD EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1	Υ		05/19/2016 18:46	RLD EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1	Υ		05/19/2016 18:46	RLD EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 18:46	RLD EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1	Υ		05/19/2016 18:46	RLD EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 18:46	RLD EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:46	RLD EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 18:46	RLD EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1	Υ		05/19/2016 18:46	RLD EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/19/2016 18:46	RLD EPA 8260C
1,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			05/19/2016 18:46	RLD EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 118915

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	t Method
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 18:46 RLI	D EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 18:46 RLI	D EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/19/2016 18:46 RLI	D EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/19/2016 18:46 RLI	D EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:46 RLI	D EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1	Υ		05/19/2016 18:46 RLI	D EPA 8260C
4-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			05/19/2016 18:46 RLI	D EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1	Υ		05/19/2016 18:46 RLI	D EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/19/2016 18:46 RLI	D EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/19/2016 18:46 RLI	D EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 18:46 RLI	D EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 18:46 RLI	D EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 18:46 RLI	D EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/19/2016 18:46 RLI	D EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/19/2016 18:46 RLI	D EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/19/2016 18:46 RLI	D EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/19/2016 18:46 RLI	D EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 18:46 RLI	D EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:46 RLI	D EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/19/2016 18:46 RLI	D EPA 8260C
Chloromethane	< 0.050	ug/L	0.050	0.18	1			05/19/2016 18:46 RLI	D EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:46 RLI	D EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/19/2016 18:46 RLI	D EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/19/2016 18:46 RLI	D EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:46 RLI	D EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 118915

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:46 RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 18:46 RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:46 RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1	Υ		05/19/2016 18:46 RLD	EPA 8260C
Isopropylbenzene	< 0.050	ug/L	0.050	0.17	1			05/19/2016 18:46 RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/19/2016 18:46 RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 18:46 RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:46 RLD	EPA 8260C
n-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			05/19/2016 18:46 RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 18:46 RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1	Υ		05/19/2016 18:46 RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			05/19/2016 18:46 RLD	EPA 8260C
o-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:46 RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/19/2016 18:46 RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			05/19/2016 18:46 RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:46 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 18:46 RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/19/2016 18:46 RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:46 RLD	EPA 8260C
rans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 18:46 RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/19/2016 18:46 RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			05/19/2016 18:46 RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 18:46 RLD	EPA 8260C
/inyl acetate	<0.50	ug/L	0.50	1.6	1			05/19/2016 18:46 RLD	EPA 8260C
/inyl chloride	<0.016	ug/L	0.016	0.052	1			05/19/2016 18:46 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

delivering more than data from your environmental analyses

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 118915

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CT LAB Sample#: 721961 Sam	T LAB Sample#: 721961 Sample Description: MW-101S								License/Well #: 4189/035 Sampled: 05/10/2016 1				
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method			
Metals Results													
Dissolved Iron	0.0296	mg/L	0.010 *	0.032	1			05/12/2016 10:2	23 NAH	EPA 6010C			
Dissolved Manganese	<1.6	ug/L	1.6	5.3	1			05/12/2016 10:2	23 NAH	EPA 6010C			
CT LAB Sample#: 721962 Sam	ple Description: MW-1	01B					License/\	Well #: 4189/036	Sampled	: 05/10/2016 1310			
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method			
Field Results													
Dissolved Oxygen (Field)	0.22	mg/L	N/A	N/A	1			05/10/2016 00:0	00 SUB				
OX/REDOX (Field)	253	MV	N/A	N/A	1			05/10/2016 00:0	00 SUB				
Color (Field)	clear		N/A	N/A	1			05/10/2016 00:0	00 SUB	FIELD			
Conductivity (Field)	1180	umhos/cm	N/A	N/A	1			05/10/2016 00:0	00 SUB	FIELD			
pH (Field)	7.24	S.U.	N/A	N/A	1			05/10/2016 00:0	00 SUB	FIELD			
Temperature (Field)	10.52	Deg. C	N/A	N/A	1			05/10/2016 00:0	00 SUB	FIELD			
Turbidity (Field)	clear		N/A	N/A	1			05/10/2016 00:0	00 SUB	FIELD			
Inorganic Results													
Alkalinity Total	360	mg/L	5.0	18	1			05/12/2016 16:3	31 MER	EPA 310.2			
Total Chloride	180	mg/L	3.5	12	5			05/18/2016 10:4	15 JJF	EPA 9056A			
Total Sulfate	40	mg/L	2.5	9.0	5			05/18/2016 10:4	15 JJF	EPA 9056A			
Total Organic Carbon	2.0	mg/L	0.50	1.7	1			05/23/2016 14:1	9 JJF	EPA 9060A			
Metals Results													
Total Iron	<0.020	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 16:0	1 NAH	EPA 6010C			
Total Manganese	51.8	ug/L	1.4	4.7	1		05/16/2016 10:00	05/16/2016 16:0	1 NAH	EPA 6010C			

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 12:26	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 12:26	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 12:26	AMA	Mod RSK 175
Methane	75	ug/L	2.0	6.0	5		05/19/2016 08:30	05/19/2016 12:35	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 19:14	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 19:14	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/19/2016 19:14	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/19/2016 19:14	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 19:14	RLD	EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			05/19/2016 19:14	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/19/2016 19:14	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 19:14	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 19:14	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/19/2016 19:14	RLD	EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			05/19/2016 19:14	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			05/19/2016 19:14	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 19:14	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 19:14	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 19:14	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/19/2016 19:14	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/19/2016 19:14	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 19:14	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 19:14	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 19:14	RLD	EPA 8260C

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CT LAB Sample#: 721962 Sample Description: MW-101B License/Well #: 4189/036 Sampled: 05/10/2016 1310

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/19/2016 19:14 RLD EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/19/2016 19:14 RLD EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/19/2016 19:14 RLD EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 19:14 RLD EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/19/2016 19:14 RLD EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 19:14 RLD EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/19/2016 19:14 RLD EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/19/2016 19:14 RLD EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 19:14 RLD EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 19:14 RLD EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 19:14 RLD EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/19/2016 19:14 RLD EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/19/2016 19:14 RLD EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/19/2016 19:14 RLD EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/19/2016 19:14 RLD EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 19:14 RLD EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 19:14 RLD EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/19/2016 19:14 RLD EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 19:14 RLD EPA 8260C
cis-1,2-Dichloroethene	0.32	ug/L	0.060	0.21	1			05/19/2016 19:14 RLD EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/19/2016 19:14 RLD EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/19/2016 19:14 RLD EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 19:14 RLD EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 19:14 RLD EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 19:14 RLD EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Ethylbenzene	<0.060	ug/L	0.060	0.21	1		24.0,1	05/19/2016 19:14 RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/19/2016 19:14 RLD	EPA 8260C
sopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 19:14 RLD	EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/19/2016 19:14 RLD	EPA 8260C
Methyl tert-butyl ether	0.24	ug/L	0.040	0.15	1			05/19/2016 19:14 RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/19/2016 19:14 RLD	EPA 8260C
-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 19:14 RLD	EPA 8260C
-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 19:14 RLD	EPA 8260C
laphthalene	<0.050	ug/L	0.050	0.18	1			05/19/2016 19:14 RLD	EPA 8260C
-Xylene	<0.050	ug/L	0.050	0.16	1			05/19/2016 19:14 RLD	EPA 8260C
-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 19:14 RLD	EPA 8260C
ec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/19/2016 19:14 RLD	EPA 8260C
tyrene	<0.050	ug/L	0.050	0.15	1			05/19/2016 19:14 RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 19:14 RLD	EPA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 19:14 RLD	EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/19/2016 19:14 RLD	EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 19:14 RLD	EPA 8260C
ans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 19:14 RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/19/2016 19:14 RLD	EPA 8260C
richloroethene	0.045	ug/L	0.030 *	0.10	1			05/19/2016 19:14 RLD	EPA 8260C
richlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			05/19/2016 19:14 RLD	EPA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1			05/19/2016 19:14 RLD	EPA 8260C
inyl chloride	<0.016	ug/L	0.016	0.052	1			05/19/2016 19:14 RLD	EPA 8260C

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CT LAB Sample#: 721963 Sar	mple Description: MW-1	01B					License/Well #: 418	9/036	Sampled	d: 05/10/2016 1310
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	•	nalysis te/Time	•	Method
Metals Results										
Dissolved Iron	<0.010	mg/L	0.010	0.032	1		05/12/2	016 10:	30 NAH	EPA 6010C
Dissolved Manganese	57.4	ug/L	1.6	5.3	1		05/12/2	016 10:	30 NAH	EPA 6010C
CT LAB Sample#: 721964 Sar	mple Description: MW-1	4DR					License/Well #: 418	9/050	Sampleo	d: 05/10/2016 1420

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	5.74	mg/L	N/A	N/A	1			05/10/2016 00	00 SUB	
OX/REDOX (Field)	213	MV	N/A	N/A	1			05/10/2016 00	00 SUB	
Color (Field)	clear		N/A	N/A	1			05/10/2016 00	00 SUB	FIELD
Conductivity (Field)	841	umhos/cm	N/A	N/A	1			05/10/2016 00	00 SUB	FIELD
pH (Field)	6.65	S.U.	N/A	N/A	1			05/10/2016 00	00 SUB	FIELD
Temperature (Field)	10.40	Deg. C	N/A	N/A	1			05/10/2016 00	00 SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/10/2016 00	00 SUB	FIELD
Inorganic Results										
Alkalinity Total	350	mg/L	5.0	18	1			05/12/2016 16	36 MER	EPA 310.2
Total Chloride	190	mg/L	3.5	12	5			05/18/2016 11	04 JJF	EPA 9056A
Total Sulfate	38	mg/L	2.5	9.0	5			05/18/2016 11	04 JJF	EPA 9056A
Total Organic Carbon	3.3	mg/L	0.50	1.7	1			05/23/2016 14	31 JJF	EPA 9060A
Metals Results										
Total Iron	<0.020	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 16	44 NAH	EPA 6010C
Total Manganese	182	ug/L	1.4	4.7	1		05/16/2016 10:00	05/16/2016 16	44 NAH	EPA 6010C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 12:44	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 12:44	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 12:44	AMA	Mod RSK 175
Methane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 12:44	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 19:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 19:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/19/2016 19:43	RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			05/19/2016 19:43	RLD	EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			05/19/2016 19:43	RLD	EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			05/19/2016 19:43	RLD	EPA 8260C
1,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			05/19/2016 19:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 19:43	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 19:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/19/2016 19:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			05/19/2016 19:43	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			05/19/2016 19:43	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 19:43	RLD	EPA 8260C
1,2-Dichlorobenzene	< 0.060	ug/L	0.060	0.19	1			05/19/2016 19:43	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 19:43	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/19/2016 19:43	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/19/2016 19:43	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 19:43	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 19:43	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 19:43	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep	Analysis Analyst	Method
	Rooult	O I III O			2 iiulioli	<u> </u>	Date/Time	Date/Time	
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/19/2016 19:43 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/19/2016 19:43 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/19/2016 19:43 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 19:43 RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/19/2016 19:43 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 19:43 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/19/2016 19:43 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/19/2016 19:43 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 19:43 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 19:43 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 19:43 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/19/2016 19:43 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/19/2016 19:43 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/19/2016 19:43 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/19/2016 19:43 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 19:43 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 19:43 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/19/2016 19:43 RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 19:43 RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/19/2016 19:43 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/19/2016 19:43 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/19/2016 19:43 RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 19:43 RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 19:43 RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 19:43 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 19:43 RLD	EPA 8260C
Hexachlorobutadiene	< 0.070	ug/L	0.070	0.24	1			05/19/2016 19:43 RLD	EPA 8260C
sopropylbenzene	< 0.050	ug/L	0.050	0.17	1			05/19/2016 19:43 RLD	EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/19/2016 19:43 RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 19:43 RLD	EPA 8260C
Methylene chloride	< 0.060	ug/L	0.060	0.21	1			05/19/2016 19:43 RLD	EPA 8260C
-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			05/19/2016 19:43 RLD	EPA 8260C
-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 19:43 RLD	EPA 8260C
aphthalene	< 0.050	ug/L	0.050	0.18	1			05/19/2016 19:43 RLD	EPA 8260C
-Xylene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 19:43 RLD	EPA 8260C
Isopropyltoluene	< 0.060	ug/L	0.060	0.21	1			05/19/2016 19:43 RLD	EPA 8260C
ec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			05/19/2016 19:43 RLD	EPA 8260C
tyrene	< 0.050	ug/L	0.050	0.15	1			05/19/2016 19:43 RLD	EPA 8260C
ert-Butylbenzene	< 0.060	ug/L	0.060	0.19	1			05/19/2016 19:43 RLD	EPA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 19:43 RLD	EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/19/2016 19:43 RLD	EPA 8260C
oluene	< 0.060	ug/L	0.060	0.21	1			05/19/2016 19:43 RLD	EPA 8260C
ans-1,2-Dichloroethene	< 0.060	ug/L	0.060	0.20	1			05/19/2016 19:43 RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/19/2016 19:43 RLD	EPA 8260C
richloroethene	0.16	ug/L	0.030	0.10	1			05/19/2016 19:43 RLD	EPA 8260C
richlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			05/19/2016 19:43 RLD	EPA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1			05/19/2016 19:43 RLD	EPA 8260C
inyl chloride	<0.016	ug/L	0.016	0.052	1			05/19/2016 19:43 RLD	EPA 8260C

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

05/16/2016 10:00

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 118915

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05/16/2016 16:51 NAH EPA 6010C

CT LAB Sample#: 721965 Sam	ple Description: MW-1	I4DR					License/\	Well #: 4189/050	Sampled	: 05/10/2016 142
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	<0.010	mg/L	0.010	0.032	1			05/12/2016 10:	36 NAH	EPA 6010C
Dissolved Manganese	92.8	ug/L	1.6	5.3	1			05/12/2016 10:	36 NAH	EPA 6010C
CT LAB Sample#: 721967 Sam	ple Description: MW-1	ID					License/\	Well #: 4189/002	Sampled	: 05/10/2016 154
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0.27	mg/L	N/A	N/A	1			05/10/2016 00:	00 SUB	
OX/REDOX (Field)	-74	MV	N/A	N/A	1			05/10/2016 00:0	00 SUB	
Color (Field)	clear		N/A	N/A	1			05/10/2016 00:	00 SUB	FIELD
Conductivity (Field)	613	umhos/cm	N/A	N/A	1			05/10/2016 00:	00 SUB	FIELD
pH (Field)	7.42	S.U.	N/A	N/A	1			05/10/2016 00:	00 SUB	FIELD
Temperature (Field)	11.39	Deg. C	N/A	N/A	1			05/10/2016 00:	00 SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/10/2016 00:	00 SUB	FIELD
Inorganic Results										
Alkalinity Total	370	mg/L	5.0	18	1			05/12/2016 16:	38 MER	EPA 310.2
Total Chloride	5.6	mg/L	0.70	2.4	1			05/18/2016 11::	22 JJF	EPA 9056A
Total Sulfate	0.55	mg/L	0.50 *	1.8	1			05/18/2016 11::	22 JJF	EPA 9056A
Total Organic Carbon	1.2	mg/L	0.50 *	1.7	1			05/23/2016 14:	43 JJF	EPA 9060A
Metals Results										
Total Iron	1.67	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 16:	51 NAH	EPA 6010C

4.7

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

13.8

ug/L

1.4

Total Manganese

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	yst Method
Organic Results									
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 12:54	AMA Mod RSK 17
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 12:54	AMA Mod RSK 17
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 12:54	AMA Mod RSK 17
Methane	770	ug/L	40	120	100		05/19/2016 08:30	05/19/2016 13:04	AMA Mod RSK 17
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 20:11	RLD EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:11	RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/19/2016 20:11	RLD EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/19/2016 20:11	RLD EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:11	RLD EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/19/2016 20:11	RLD EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:11	RLD EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 20:11	RLD EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 20:11	RLD EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/19/2016 20:11	RLD EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 20:11	RLD EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/19/2016 20:11	RLD EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 20:11	RLD EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:11	RLD EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 20:11	RLD EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/19/2016 20:11	RLD EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/19/2016 20:11	RLD EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:11	RLD EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 20:11	RLD EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 20:11	RLD EPA 8260C

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	t Method
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/19/2016 20:11 RL	D EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/19/2016 20:11 RL	D EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:11 RL	D EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 20:11 RL	D EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/19/2016 20:11 RL	D EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 20:11 RL	D EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/19/2016 20:11 RL	D EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/19/2016 20:11 RL	D EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 20:11 RL	D EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 20:11 RL	D EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 20:11 RL	D EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/19/2016 20:11 RL	D EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/19/2016 20:11 RL	D EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/19/2016 20:11 RL	D EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/19/2016 20:11 RL	D EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 20:11 RL	D EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:11 RL	D EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/19/2016 20:11 RL	D EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 20:11 RL	D EPA 8260C
sis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:11 RL	D EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/19/2016 20:11 RL	D EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/19/2016 20:11 RL	D EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:11 RL	D EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:11 RL	D EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 20:11 RL	D EPA 8260C

CT LABORATORIES delivering more than data from your environmental analyses

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:11 F	LD EPA 8260C
lexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/19/2016 20:11 R	LD EPA 8260C
sopropylbenzene	0.050	ug/L	0.050 *	0.17	1			05/19/2016 20:11 R	LD EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/19/2016 20:11 R	LD EPA 8260C
lethyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 20:11 R	LD EPA 8260C
lethylene chloride	< 0.060	ug/L	0.060	0.21	1			05/19/2016 20:11 F	LD EPA 8260C
-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			05/19/2016 20:11 F	LD EPA 8260C
-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 20:11 F	LD EPA 8260C
aphthalene	< 0.050	ug/L	0.050	0.18	1			05/19/2016 20:11 F	LD EPA 8260C
Xylene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 20:11 F	LD EPA 8260C
-Isopropyltoluene	< 0.060	ug/L	0.060	0.21	1			05/19/2016 20:11 F	LD EPA 8260C
ec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			05/19/2016 20:11 R	LD EPA 8260C
tyrene	0.089	ug/L	0.050 *	0.15	1			05/19/2016 20:11 F	LD EPA 8260C
ert-Butylbenzene	< 0.060	ug/L	0.060	0.19	1			05/19/2016 20:11 R	LD EPA 8260C
etrachloroethene	< 0.060	ug/L	0.060	0.20	1			05/19/2016 20:11 R	LD EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/19/2016 20:11 R	LD EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:11 R	LD EPA 8260C
ans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 20:11 R	LD EPA 8260C
ans-1,3-Dichloropropene	< 0.014	ug/L	0.014	0.048	1			05/19/2016 20:11 R	LD EPA 8260C
richloroethene	<0.030	ug/L	0.030	0.10	1			05/19/2016 20:11 R	LD EPA 8260C
richlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			05/19/2016 20:11 R	LD EPA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1			05/19/2016 20:11 R	LD EPA 8260C
inyl chloride	<0.016	ug/L	0.016	0.052	1			05/19/2016 20:11 F	LD EPA 8260C

CT LABORATORIES delivering more than data from your environmental analyses

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

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05/16/2016 10:00 05/16/2016 16:58 NAH EPA 6010C

CT LAB Sample#: 721981 Sam	ple Description: MW-1						License/v	Vell #: 4189/002	Sampled	: 05/10/2016 15
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis / Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	1.47	mg/L	0.010	0.032	1			05/12/2016 10:43	NAH	EPA 6010C
Dissolved Manganese	14.9	ug/L	1.6	5.3	1			05/12/2016 10:43	NAH	EPA 6010C
CT LAB Sample#: 721982 Sam	ple Description: MW-	IS					License/V	Vell #: 4189/001	Sampled	: 05/10/2016 15
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis / Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0	mg/L	N/A	N/A	1			05/10/2016 00:00	SUB	
OX/REDOX (Field)	38	MV	N/A	N/A	1			05/10/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/10/2016 00:00	SUB	FIELD
Conductivity (Field)	1110	umhos/cm	N/A	N/A	1			05/10/2016 00:00	SUB	FIELD
pH (Field)	6.95	S.U.	N/A	N/A	1			05/10/2016 00:00	SUB	FIELD
Temperature (Field)	9.95	Deg. C	N/A	N/A	1			05/10/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/10/2016 00:00	SUB	FIELD
norganic Results										
Alkalinity Total	350	mg/L	5.0	18	1			05/12/2016 16:40) MER	EPA 310.2
Total Chloride	160	mg/L	7.0	24	10			05/18/2016 11:41	I JJF	EPA 9056A
Total Sulfate	53	mg/L	5.0	18	10			05/18/2016 11:41	l JJF	EPA 9056A
Fotal Organic Carbon	1.8	mg/L	0.50	1.7	1			05/23/2016 14:56	3 JJF	EPA 9060A
Metals Results										
Total Iron	2.32	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 16:58	NAH	EPA 6010C
				. –			. = / /	0=11010010 :		

4.7

1.4

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

ug/L

206

Total Manganese

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

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Project Phase:

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 13:15	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 13:15	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 13:15	AMA	Mod RSK 175
Methane	18	ug/L	0.80	2.4	2		05/19/2016 08:30	05/19/2016 13:24	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 20:40	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:40	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/19/2016 20:40	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/19/2016 20:40	RLD	EPA 8260C
1,1-Dichloroethane	0.24	ug/L	0.060	0.19	1			05/19/2016 20:40	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/19/2016 20:40	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:40	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 20:40	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 20:40	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/19/2016 20:40	RLD	EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			05/19/2016 20:40	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/19/2016 20:40	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 20:40	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:40	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 20:40	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/19/2016 20:40	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/19/2016 20:40	RLD	EPA 8260C
1,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			05/19/2016 20:40	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 20:40	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 20:40	RLD	EPA 8260C

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CT LAB Sample#: 721982 Sample Description: MW-1S

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 118915

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License/Well #: 4189/001 Sampled: 05/10/2016 1555

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/19/2016 20:40 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/19/2016 20:40 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:40 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 20:40 RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/19/2016 20:40 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 20:40 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/19/2016 20:40 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/19/2016 20:40 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 20:40 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 20:40 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 20:40 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/19/2016 20:40 RLD	EPA 8260C
Bromomethane	< 0.090	ug/L	0.090	0.29	1			05/19/2016 20:40 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/19/2016 20:40 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/19/2016 20:40 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 20:40 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:40 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/19/2016 20:40 RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 20:40 RLD	EPA 8260C
cis-1,2-Dichloroethene	0.11	ug/L	0.060 *	0.21	1			05/19/2016 20:40 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/19/2016 20:40 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/19/2016 20:40 RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:40 RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:40 RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 20:40 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:40 RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/19/2016 20:40 RLD	EPA 8260C
sopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 20:40 RLD	EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/19/2016 20:40 RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 20:40 RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:40 RLD	EPA 8260C
-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 20:40 RLD	EPA 8260C
-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 20:40 RLD	EPA 8260C
laphthalene	<0.050	ug/L	0.050	0.18	1			05/19/2016 20:40 RLD	EPA 8260C
-Xylene	<0.050	ug/L	0.050	0.16	1			05/19/2016 20:40 RLD	EPA 8260C
-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:40 RLD	EPA 8260C
ec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/19/2016 20:40 RLD	EPA 8260C
tyrene	<0.050	ug/L	0.050	0.15	1			05/19/2016 20:40 RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 20:40 RLD	EPA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 20:40 RLD	EPA 8260C
etrahydrofuran	0.74	ug/L	0.60 *	2.1	1	B,Z		05/19/2016 20:40 RLD	EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 20:40 RLD	EPA 8260C
ans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 20:40 RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/19/2016 20:40 RLD	EPA 8260C
richloroethene	0.061	ug/L	0.030 *	0.10	1			05/19/2016 20:40 RLD	EPA 8260C
richlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 20:40 RLD	EPA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1			05/19/2016 20:40 RLD	EPA 8260C
inyl chloride	<0.016	ug/L	0.016	0.052	1			05/19/2016 20:40 RLD	EPA 8260C

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CT LAB Sample#: 721994 Sam	ple Description: MW-1	IS					License/\	Well #: 4189/001	Sampled	: 05/10/2016 155
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis <i>A</i> Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	0.406	mg/L	0.010	0.032	1			05/12/2016 10:51	NAH	EPA 6010C
Dissolved Manganese	196	ug/L	1.6	5.3	1			05/12/2016 10:51	NAH	EPA 6010C
CT LAB Sample#: 722017 Sam	ple Description: MW-4	4S					License/\	Well #: 4189/007	Sampled	: 05/10/2016 152
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis <i>A</i> Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0	mg/L	N/A	N/A	1			05/10/2016 00:00	SUB	
OX/REDOX (Field)	97	MV	N/A	N/A	1			05/10/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/10/2016 00:00	SUB	FIELD
Conductivity (Field)	1580	umhos/cm	N/A	N/A	1			05/10/2016 00:00	SUB	FIELD
pH (Field)	6.90	S.U.	N/A	N/A	1			05/10/2016 00:00	SUB	FIELD
Temperature (Field)	9.41	Deg. C	N/A	N/A	1			05/10/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/10/2016 00:00	SUB	FIELD
Inorganic Results										
Total Chloride	42	mg/L	7.0	24	10			05/18/2016 12:00	JJF	EPA 9056A
Total Sulfate	100	mg/L	5.0	18	10			05/18/2016 12:00	JJF	EPA 9056A
Total Organic Carbon	10	mg/L	0.50	1.7	1			05/23/2016 15:10	JJF	EPA 9060A
Alkalinity	740	mg/L	4.0	4.0	1			05/13/2016 15:00	MER	SM 2320B
Metals Results										
Total Iron	0.556	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 17:05	NAH	EPA 6010C
Total Manganese	97.2	ug/L	1.4	4.7	1		05/16/2016 10:00	05/16/2016 17:05	NAH	EPA 6010C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 13:34	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 13:34	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 13:34	AMA	Mod RSK 175
Methane	20	ug/L	0.80	2.4	2		05/19/2016 08:30	05/19/2016 13:44	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:09	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:09	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/19/2016 21:09	RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			05/19/2016 21:09	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:09	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/19/2016 21:09	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:09	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 21:09	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 21:09	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/19/2016 21:09	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 21:09	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			05/19/2016 21:09	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 21:09	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:09	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 21:09	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:09	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:09	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:09	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 21:09	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 21:09	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Anal Date/Time	yst Method
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/19/2016 21:09 F	LD EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/19/2016 21:09 F	LD EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:09 F	LD EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 21:09 F	LD EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:09 F	LD EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 21:09 F	LD EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/19/2016 21:09 F	LD EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/19/2016 21:09 F	LD EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 21:09 F	LD EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 21:09 F	LD EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 21:09 F	LD EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/19/2016 21:09 F	LD EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/19/2016 21:09 F	LD EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/19/2016 21:09 F	LD EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:09 F	LD EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 21:09 F	LD EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:09 F	LD EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:09 F	LD EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:09 F	LD EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:09 F	LD EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/19/2016 21:09 F	LD EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/19/2016 21:09 F	LD EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:09 F	LD EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:09 F	LD EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 21:09 F	LD EPA 8260C

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CT LAB Sample#: 722017 Sample Description: MW-4S Sampled: 05/10/2016 1520 License/Well #: 4189/007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	t Method
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:09 RL	D EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/19/2016 21:09 RL	D EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 21:09 RL	D EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/19/2016 21:09 RL	D EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 21:09 RL	D EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:09 RL	D EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 21:09 RL	D EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 21:09 RL	D EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:09 RL	D EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			05/19/2016 21:09 RL	D EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:09 RL	D EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:09 RL	D EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			05/19/2016 21:09 RL	D EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:09 RL	D EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:09 RL	D EPA 8260C
Tetrahydrofuran	0.66	ug/L	0.60 *	2.1	1	B,Z		05/19/2016 21:09 RL	D EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:09 RL	D EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:09 RL	D EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/19/2016 21:09 RL	D EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			05/19/2016 21:09 RL	D EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:09 RL	D EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			05/19/2016 21:09 RL	D EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			05/19/2016 21:09 RL	D EPA 8260C

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CT LAB Sample#: 722023 Sample	e Description: MW-4	IS					License/	Well #: 4189/007 Sampled: 05/10/2016 1
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Metals Results								
Dissolved Iron	0.501	mg/L	0.010	0.032	1			05/12/2016 10:58 NAH EPA 6010C
Dissolved Manganese	111	ug/L	1.6	5.3	1			05/12/2016 10:58 NAH EPA 6010C
CT LAB Sample#: 722024 Sample	e Description: TB-1						License/	Well #: 4189/999 Sampled: 05/10/2016
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Organic Results								
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 17:48 RLD EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 17:48 RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/19/2016 17:48 RLD EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			05/19/2016 17:48 RLD EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 17:48 RLD EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			05/19/2016 17:48 RLD EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/19/2016 17:48 RLD EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 17:48 RLD EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 17:48 RLD EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/19/2016 17:48 RLD EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 17:48 RLD EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/19/2016 17:48 RLD EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 17:48 RLD EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 17:48 RLD EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 17:48 RLD EPA 8260C
1,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			05/19/2016 17:48 RLD EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep	Analysis Analyst	Method
Analyte	Result	Ullits	LOD	LUQ	Dilution	Qualifier	Date/Time	Analysis Analyst Date/Time	WELTIOU
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/19/2016 17:48 RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 17:48 RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 17:48 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 17:48 RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/19/2016 17:48 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/19/2016 17:48 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/19/2016 17:48 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 17:48 RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/19/2016 17:48 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 17:48 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/19/2016 17:48 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/19/2016 17:48 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 17:48 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 17:48 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 17:48 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/19/2016 17:48 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/19/2016 17:48 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/19/2016 17:48 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/19/2016 17:48 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 17:48 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 17:48 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/19/2016 17:48 RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 17:48 RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/19/2016 17:48 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/19/2016 17:48 RLD	EPA 8260C

delivering more than data from your environmental analyses

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 118915

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/19/2016 17:48 R	LD EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 17:48 R	LD EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 17:48 R	LD EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 17:48 R	LD EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 17:48 R	LD EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/19/2016 17:48 R	LD EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 17:48 R	LD EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/19/2016 17:48 R	LD EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 17:48 R	LD EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/19/2016 17:48 R	LD EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 17:48 R	LD EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 17:48 R	LD EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/19/2016 17:48 R	LD EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			05/19/2016 17:48 R	LD EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 17:48 R	LD EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/19/2016 17:48 R	LD EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			05/19/2016 17:48 R	LD EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 17:48 R	LD EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 17:48 R	LD EPA 8260C
Tetrahydrofuran	1.1	ug/L	0.60 *	2.1	1	B,Z		05/19/2016 17:48 R	LD EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 17:48 R	LD EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 17:48 R	LD EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/19/2016 17:48 R	LD EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			05/19/2016 17:48 R	LD EPA 8260C
Trichlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			05/19/2016 17:48 R	LD EPA 8260C

CT LABORATORIES delivering more than data from your environmental analyses

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Folder #: 118915 Page 28 of 29

Contract #: 2747

Project Phase:

CT LAB Sample#: 722024 Sample Description: TB-1 License/Well #: 4189/999 Sampled: 05/10/2016

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			05/19/2016 17:	48 RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			05/19/2016 17:	48 RLD	EPA 8260C

CT LABORATORIE delivering more than data from your environmental analyses

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 118915 Page 29 of 29

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Incorrect field data were provided for MW-101S. Reason for Revision

Submitted by: Brett M. Szymanski Project Manager 608-356-2760

QC Qualifiers

<u>Code</u>	<u>Description</u>	Current C1 Laboratories Certifica
В	Analyte detected in the associated Method Blank.	Kansas NELAP ID# E-10368
С	Toxicity present in BOD sample.	Kentucky ID# 0023
D	Diluted Out.	ISO/IEC 17025-2005 A2LA Cert # 3
E	Safe, No Total Coliform detected.	North Carolina ID# 674
F	Unsafe, Total Coliform detected, no E. Coli detected.	Wisconsin (WDNR) Chemistry ID# 1
G	Unsafe, Total Coliform detected and E. Coli detected.	
Н	Holding time exceeded.	Wisconsin (DATCP) Bacteriology ID
1	BOD incubator temperature was outside acceptance limits during test period.	DoD-ELAP A2LA 3806.01
J	Estimated value.	GA EPD Stipulation ID E871111, Ex
L	Significant peaks were detected outside the chromatographic window.	Louisiana ID # 115843
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	Virginia ID# 7608
N	Insufficient BOD oxygen depletion.	Illinois NELAP ID # 002413
0	Complete BOD oxygen depletion.	Wisconsin (WOSB) ID# WI-5499-W
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	Maryland ID# 344
Q	Laboratory Control Sample outside acceptance limits.	Waryland 15# 011
R	See Narrative at end of report.	
5	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V 1A/	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W X	Sample amount received was below program minimum.	
Λ V	Analyte exceeded calibration range.	
ī 7	Replicate/Duplicate precision outside acceptance limits.	
_	Specified calibration criteria was not met.	

Current CT Laboratories Certifications

3806.01 # 157066030 ID# 105-289 **Expires Annually**

WBF



366.0

mg/L

QC SUMMARY REPORT

TETRA TECH Project Name: WDNR OCONOMOWOC

ELECTROPLATING

375.0

98

90 --- 110

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

				Lab Contro	l Spike Wate	r				
Analytical Run #: CTLab #:	125979 722426	Analysis Analysis		05/12/2016 16:03	Prep Batch #: Prep Date/Tim			Matrix: Method:	LIQUII E310.2	
Parent Sample #:		Analyst:	:	MER	Prep Analyst:					
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit

Alkalinity

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

				Method E	Blank Water					
Analytical Run #:	125979	Analys	sis Date:	05/12/2016	Prep Batch #:			Matrix:	LIQU	ID
CTLab #:	722427	Analys	sis Time:	16:04	Prep Date/Tim	ne:		Method:	E310	.2
Parent Sample #:		Analys	st:	MER	Prep Analyst:					
nalyte	QC Ur sample result		sample sample		Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
lkalinity		5	mg/L		U	0			5	

Date Printed: 05/27/2016

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Duplicate			
05/12/2016	Prep Batch #:	Matrix:	GROUND WATER

Method:

E310.2

CTLab #: 723024 Analysis Time: 16:37 Prep Date/Time:
Parent Sample #: 721964 Analyst: DC Prep Analyst:

Analysis Date:

Falent Sample #.	721904	Allalys	ot.	DC	Fiep Allalyst.						
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Alkalinity Dissolved		350	mg/L	350					0	10	
Alkalinity Total		350	mg/L	350					0	7	

Analytical Run #:

125980

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

				Lab Contro	l Spike Wate	r				
Analytical Run #:	125980	Analys	is Date:	05/12/2016	Prep Batch #:			Matrix:	LIQUID)
CTLab #:	722428	Analys	is Time:	16:32	Prep Date/Tim	ne:		Method:	E310.2	
Parent Sample #:		Analys	t:	MER	Prep Analyst:					
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
lkalinity		363.0	mg/L			375.0	97	90 110		

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Method Blank Water											
Analytical Run #: CTLab #:	125980 722429	•	is Date:	05/12/2016 16:33	Prep Batch #: Prep Date/Tim	ie:		Matrix: Method:	-	UID 10.2	
Parent Sample #:		Analys	it:	MER	Prep Analyst:						
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RP	D RPD Limit	
kalinity		5	mg/L		U	0			5		

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ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

				Lab Contro	l Spike Wate	r				
Analytical Run #:	126030	•	is Date:	05/13/2016	•			Matrix:	LIQUID	
CTLab #: Parent Sample #:	723299	Analys	sis Time: st:	15:00 MER	Prep Date/Tim Prep Analyst:			Method:	E310.1	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
lkalinity		340	mg/L			375	91	110		

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ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Method Blank Water											
Analytical Run #: CTLab #: Parent Sample #:	126030 723300	•	is Date: is Time: it:	05/13/2016 15:00 MER	Prep Batch #: Prep Date/Tin Prep Analyst:	ne:		Matrix: Method:	LIQU E310		
nalyte	QC U sample result		ample sample	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit		
lkalinity		4	mg/L		U	0			4		

TETRA TECH Project Name:

Folder #: 118915

Project Name: WDNR OCONOMOWOC

ELECTROPLATING

Project Number: 117-7413001.01

Du	plic	ate

г							
	Analytical Run #:	126089	Analysis Date:	05/18/2016	Prep Batch #:	Matrix:	GROUND WATER
	CTLab #:	725466	Analysis Time:	18:14	Prep Date/Time:	Method:	SW9056A
	Parent Sample #:	721967	Analyst:	JJF	Prep Analyst:		
L							

·	-									
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Total Chloride	5.62	mg/L	5.6					0	20	
Total Sulfate	0.532	mg/L	0.55					3	20	

SDG #: 0

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

l ab	Control	Snike	Water	
Lav	COILLIO	Opine	vvalei	

Analytical Run #:	126089	Analysis Date:	05/18/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	725459	Analysis Time:	09:33	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC	Units	Parent	Qualifier(s)	Spike	%	Control	RPD	RPD	
,	sample result	22	sample result		Amount Added		Limits		Limit	
Chloride	14.81	mg/L			15.00	99	80 120			
Sulfate	25.94	mg/L			25.00	104	80 120			

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Method	l Blank	Water
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Analytical Run #:	126089	Analysis Date:	05/18/2016	Prep Batch #:	Matrix:	LIQUID	
CTLab #:	725460	Analysis Time:	10:07	Prep Date/Time:	Method:	SW9056A	
Parent Sample #:		Analyst:	JJF	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	0.7	mg/L		U	0		0.7		
Sulfate	0.5	mg/L		U	0		0.5		

Date Printed: 05/27/2016

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Matrix Spike Water	Matrix	Spike	Water	
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Ī	Analytical Run #: CTLab #:	126089 725467	Analysis Date: Analysis Time:	05/18/2016 18:33	Prep Batch #: Prep Date/Time:	Matrix: Method:	GROUND WATER SW9056A
	Parent Sample #:	721967	Analyst:	JJF	Prep Analyst:	Metriou.	3W9030A

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Conti Limi		RPD	RPD Limit
Total Chloride	14.2	mg/L	5.6		8.00	108	80	120		20
Total Sulfate	8.96	mg/L	0.55		8.00	105	80	120		20

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

				Dup	olicate					
Analytical Run #: CTLab #: Parent Sample #:	126147 727252 721951	•	sis Date: sis Time: st:	05/23/2016 13:40 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix: Method:	GROU SW90	JND WATER 60
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Fotal Organic Carbon		6.56	mg/L	6.5					1	20

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

				Lab Contro	l Spike Wate	r				
Analytical Run #: CTLab #: Parent Sample #:	126147 727250	•	is Date: is Time: t:	05/23/2016 12:52 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix: Method:	LIQUII SW90	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		53.27	mg/L			50.00	107	85 111		

Date Printed: 05/27/2016

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

				Method E	Blank Water					
Analytical Run #: 126147 CTLab #: 727251 Parent Sample #:		•	is Date: is Time: it:	05/23/2016 13:07 JJF	Prep Batch #: Prep Date/Time: Prep Analyst:			Matrix: Method:	LIQUID SW9060	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		0.5	mg/L		U	0		0.5		

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ELECTROPLATING

				Matrix Spike	Duplicate Wa	ater					
Analytical Run #: CTLab #: Parent Sample #:	126147 727254 727253	•	sis Date: sis Time: st:	05/23/2016 14:06 JJF	Prep Batch #: Prep Date/Tin Prep Analyst:	ne:		Matrix: Method:		GROL SW90	IND WATER 60
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Contro Limit		RPD	RPD Limit
otal Organic Carbon		50.9	mg/L	6.5		50.0	89	82	119	9	6

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

				Matrix S	pike Water						
Analytical Run #: CTLab #: Parent Sample #:	126147 727253 721951	•	is Date: is Time: t:	05/23/2016 13:52 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix: Method		GROU SW90	JND WATER 60
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Cont Lim		RPD	RPD Limit
otal Organic Carbon		55.4	mg/L	6.5		50.0	98	82	- 119		6

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ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Analytical Run #:	125965	Analysis Date:	05/12/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	723687	Analysis Time:	11:11	Prep Date/Time:	Method:	SW6010
Parent Sample #:	723686	Analyst:	DC	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	Control Limits		RPD	RPD Limit
Iron	2.46	mg/L	0.501		2.00	98	72		113	3	18
Manganese	1050	ug/L	111		1000	94	67		121	1	13

Date Printed: 05/27/2016

ELECTROPLATING

Matrix S	Spike	Water
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Analytical Run #:	125965	Analysis Date:	05/12/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	723686	Analysis Time:	11:05	Prep Date/Time:	Method:	SW6010
Parent Sample #:	722023	Analyst:	DC	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	-	imits		RPD	RPD Limit
Iron	2.39	mg/L	0.501		2.00	94	72		113		18
Manganese	1060	ug/L	111		1000	95	67		121		13

ELECTROPLATING

LJF

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

NAH

Analyst:

			Lab Contro	ol Spike Water			
Analytical Run #:	126037	Analysis Date:	05/16/2016	Prep Batch #:	57245	Matrix:	LIQUID
CTLab #:	722769	Analysis Time:	15:41	Prep Date/Time:	05/13/2016 10:00	Method:	SW6010

Prep Analyst:

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro Limit		RPD	RPD Limit
Iron	0.4640	mg/L			0.4000	116	80		120		
Manganese	189.0	ug/L			200.0	94	86		112		

Parent Sample #:

ELECTROPLATING

Method	Dlank	Mator
wetnoa	Biank	vvater

Ī	Analytical Run #:	126037	Analysis Date:	05/16/2016	Prep Batch #:	57245	Matrix:	LIQUID
	CTLab #:	722768	Analysis Time:	15:47	Prep Date/Time:	05/13/2016 10:00	Method:	SW6010
	Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.02	mg/L		U	0		0.02		
Manganese	1.4	ug/L		U	0		1.4		

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Matrix	Snika	Duplicate	Water
watrix	SDIKE	Dublicate	vvater

Analytical Run #:	126037	Analysis Date:	05/16/2016	Prep Batch #:	57245	Matrix:	GROUND WATER
CTLab #:	724083	Analysis Time:	16:32	Prep Date/Time:	05/16/2016 10:00	Method:	SW6010
Parent Sample #:	724082	Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.367	mg/L	BDL		0.400	92	72 118	1	11
Manganese	235	ug/L	51.8		200	92	84 111	2	7

Date Printed: 05/27/2016

ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

			Matrix S	Spike Water			
Analytical Run #:	126037	Analysis Date:	05/16/2016	Prep Batch #:	57245	Matrix:	GROUND WATER
CTLab #:	724082	Analysis Time:	16:07	Prep Date/Time:	05/16/2016 10:00	Method:	SW6010

Parent Sample #: 721962 Analyst: NAH Prep Analyst: LJF

Analyte	san	C Units nple sult	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.3	363 mg/L	BDL		0.400	91	72 118		
Manganese	23	31 ug/L	51.8		200	90	84 111		

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #: CTLab #:	125991 725958	Analysis Date: Analysis Time:	05/19/2016 16:22	Prep Batch #: Prep Date/Time:	Matrix: Method:	LIQUID SW8260C	
Parent Sample #:	72000	Analyst:	RLD	Prep Analyst:		01102000	

Parent Sample #.	Analys	SI. KL	.U	Prep Analyst:					
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.61	ug/L			4.00	90	74 127		
1,1,1-Trichloroethane	3.85	ug/L			4.00	96	73 132		
1,1,2,2-Tetrachloroethane	4.44	ug/L			4.00	111	67 129		
1,1,2-Trichloroethane	4.15	ug/L			4.00	104	73 129		
1,1-Dichloroethane	3.92	ug/L			4.00	98	73 129		
1,1-Dichloroethene	4.09	ug/L			4.00	102	73 132		
1,1-Dichloropropene	4.06	ug/L			4.00	102	75 125		
1,2 Dichloroethane-d4	92.0	% Recovery			100	92.0	68 120		
1,2,3-Trichlorobenzene	3.72	ug/L			4.00	93	72 125		
1,2,3-Trichloropropane	4.26	ug/L			4.00	106	68 136		
1,2,4-Trichlorobenzene	3.83	ug/L			4.00	96	67 124		
1,2,4-Trimethylbenzene	3.89	ug/L			4.00	97	77 123		
1,2-Dibromo-3-chloropropane	4.27	ug/L			4.00	107	56 138		
1,2-Dibromoethane	4.21	ug/L			4.00	105	76 127		
1,2-Dichlorobenzene	3.81	ug/L			4.00	95	82 120		
1,2-Dichloroethane	4.10	ug/L			4.00	102	72 134		
1,2-Dichloropropane	3.93	ug/L			4.00	98	76 124		
1,3,5-Trimethylbenzene	3.92	ug/L			4.00	98	77 124		
1,3-Dichlorobenzene	3.74	ug/L			4.00	94	81 120		
1,3-Dichloropropane	4.17	ug/L			4.00	104	76 125		
1,4-Dichlorobenzene	3.74	ug/L			4.00	94	80 120		
2,2-Dichloropropane	3.78	ug/L			4.00	94	54 144		
2-Butanone	47.6	ug/L			40.0	119	57 144		
2-Chlorotoluene	3.98	ug/L			4.00	100	77 123		
2-Hexanone	44.7	ug/L			40.0	112	61 132		
4-Chlorotoluene	3.86	ug/L			4.00	96	76 124		
4-Methyl-2-pentanone	47.6	ug/L			40.0	119	64 135		
Acetone	47.9	ug/L			40.0	120	51 152		
Benzene	3.90	ug/L			4.00	98	80 122		
Bromobenzene	3.85	ug/L			4.00	96	81 120		
Bromochloromethane	3.88	ug/L			4.00	97	78 126		
Bromodichloromethane	3.80	ug/L			4.00	95	67 132		
Bromofluorobenzene	100	% Recovery			100	100	68 120		
Bromoform	3.88	ug/L			4.00	97	55 132		
Bromomethane	4.31	ug/L			4.00	108	65 141		
Carbon disulfide	8.37	ug/L			8.00	105	61 140		
Carbon tetrachloride	3.89	ug/L			4.00	97	72 133		
Chlorobenzene	3.81	ug/L			4.00	95	80 122		
Chloroethane	4.10	ug/L			4.00	102	71 134		
Chloroform	3.82	ug/L			4.00	96	73 127		
Chloromethane	4.24	ug/L			4.00	106	72 128		
cis-1,2-Dichloroethene	3.89	ug/L			4.00	97	76 127		

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SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #:	125991	Analysis Date:	05/19/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	725958	Analysis Time:	16:22	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Contro Limit		RPD	RPD Limit
cis-1,3-Dichloropropene	3.87	ug/L			4.00	97	72	125		
d8-Toluene	99.0	% Recovery			100	99.0	71	117		
Dibromochloromethane	3.83	ug/L			4.00	96	60	131		
Dibromofluoromethane	98.0	% Recovery			100	98.0	67	121		
Dibromomethane	4.22	ug/L			4.00	106	76	129		
Dichlorodifluoromethane	4.11	ug/L			4.00	103	64	149		
Diisopropyl ether	4.00	ug/L			4.00	100	62	137		
Ethylbenzene	3.88	ug/L			4.00	97	80	121		
Hexachlorobutadiene	3.76	ug/L			4.00	94	71	131		
sopropylbenzene	3.82	ug/L			4.00	96	75	122		
n & p-Xylene	7.71	ug/L			8.00	96	80	121		
Methyl tert-butyl ether	4.15	ug/L			4.00	104	63	135		
Methylene chloride	4.43	ug/L			4.00	111	38	174		
-Butylbenzene	4.12	ug/L			4.00	103	71	125		
-Propylbenzene	4.08	ug/L			4.00	102	76	122		
laphthalene	4.00	ug/L			4.00	100	64	126		
-Xylene	4.02	ug/L			4.00	100	77	120		
-Isopropyltoluene	4.09	ug/L			4.00	102	76	122		
ec-Butylbenzene	4.12	ug/L			4.00	103	75	122		
Styrene	3.88	ug/L			4.00	97	76	121		
ert-Butylbenzene	3.99	ug/L			4.00	100	77	120		
etrachloroethene	3.88	ug/L			4.00	97	75	127		
etrahydrofuran	48.4	ug/L			40.0	121	60	131		
oluene	3.76	ug/L			4.00	94	80	122		
ans-1,2-Dichloroethene	4.09	ug/L			4.00	102	68	136		
ans-1,3-Dichloropropene	4.01	ug/L			4.00	100	65	126		
richloroethene	3.83	ug/L			4.00	96	78	126		
richlorofluoromethane	4.31	ug/L			4.00	108	70	145		
inyl acetate	42.2	ug/L			40.0	106	38	152		
/inyl chloride	4.15	ug/L			4.00	104	71	135		

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Method Blank Water

Ī	Analytical Run #: CTLab #:	125991 725994	Analysis Date: Analysis Time:	05/19/2016 17:20	Prep Batch #: Prep Date/Time:	Matrix: Method:	LIQUID SW8260C
	Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.05	ug/L		U	0		0.05		
1,1,1-Trichloroethane	0.06	ug/L		U	0		0.06		
1,1,2,2-Tetrachloroethane	0.020	ug/L		U	0		0.020		
1,1,2-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1-Dichloroethane	0.06	ug/L		U	0		0.06		
1,1-Dichloroethene	0.07	ug/L		U	0		0.07		
1,1-Dichloropropene	0.06	ug/L		U	0		0.06		
1,2 Dichloroethane-d4	100	% Recovery			100	100	68 120		
1,2,3-Trichlorobenzene	0.05	ug/L		U	0		0.05		
1,2,3-Trichloropropane	0.04	ug/L		U	0		0.04		
1,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,4-Trimethylbenzene	0.05	ug/L		U	0		0.05		
1,2-Dibromo-3-chloropropane	0.03	ug/L		U	0		0.03		
1,2-Dibromoethane	0.04	ug/L		U	0		0.04		
1,2-Dichlorobenzene	0.06	ug/L		U	0		0.06		
1,2-Dichloroethane	0.04	ug/L		U	0		0.04		
1,2-Dichloropropane	0.06	ug/L		U	0		0.06		
1,3,5-Trimethylbenzene	0.06	ug/L		U	0		0.06		
1,3-Dichlorobenzene	0.06	ug/L		U	0		0.06		
1,3-Dichloropropane	0.04	ug/L		U	0		0.04		
1,4-Dichlorobenzene	0.05	ug/L		U	0		0.05		
2,2-Dichloropropane	0.04	ug/L		U	0		0.04		
2-Butanone	0.8	ug/L		U	0		0.8		
2-Chlorotoluene	0.06	ug/L		U	0		0.06		
2-Hexanone	0.4	ug/L		U	0		0.4		
4-Chlorotoluene	0.05	ug/L		U	0		0.05		
4-Methyl-2-pentanone	0.4	ug/L		U	0		0.4		
Acetone	17.8	ug/L			0		0.9		
Benzene	0.06	ug/L		U	0		0.06		
Bromobenzene	0.04	ug/L		U	0		0.04		
Bromochloromethane	0.017	ug/L		U	0		0.017		
Bromodichloromethane	0.017	ug/L		U	0		0.017		
Bromofluorobenzene	100	% Recovery			100	100	68 120		
Bromoform	0.018	ug/L		U	0	.00	0.018		
Bromomethane	0.09	ug/L		U	0		0.09		
Carbon disulfide	0.11	ug/L		U	0		0.11		
Carbon tetrachloride	0.06	ug/L		U	0		0.06		
Chlorobenzene	0.04	ug/L		U	0		0.04		
Chloroethane	0.06	ug/L		U	0		0.06		
Chloroform	0.06	ug/L		U	0		0.06		
Chloromethane	0.05	ug/L		U	0		0.05		
cis-1,2-Dichloroethene	0.05	ug/L ug/L		U	0		0.05		

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ELECTROPLATING

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	125991	Analysis Date:	05/19/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	725994	Analysis Time:	17:20	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.015	ug/L		U	0		0.015		
d8-Toluene	100	% Recovery			100	100	71 117		
Dibromochloromethane	0.016	ug/L		U	0		0.016		
Dibromofluoromethane	100	% Recovery			100	100	67 122		
Dibromomethane	0.06	ug/L		U	0		0.06		
Dichlorodifluoromethane	0.06	ug/L		U	0		0.06		
Diisopropyl ether	0.04	ug/L		U	0		0.04		
Ethylbenzene	0.06	ug/L		U	0		0.06		
Hexachlorobutadiene	0.07	ug/L		U	0		0.07		
sopropylbenzene	0.05	ug/L		U	0		0.05		
m & p-Xylene	0.12	ug/L		U	0		0.12		
Methyl tert-butyl ether	0.04	ug/L		U	0		0.04		
Methylene chloride	0.06	ug/L		U	0		0.06		
n-Butylbenzene	0.05	ug/L		U	0		0.05		
n-Propylbenzene	0.05	ug/L		U	0		0.05		
Naphthalene	0.05	ug/L		U	0		0.05		
o-Xylene	0.05	ug/L		U	0		0.05		
o-Isopropyltoluene	0.06	ug/L		U	0		0.06		
sec-Butylbenzene	0.05	ug/L		U	0		0.05		
Styrene	0.05	ug/L		U	0		0.05		
ert-Butylbenzene	0.06	ug/L		U	0		0.06		
Tetrachloroethene	0.06	ug/L		U	0		0.06		
Tetrahydrofuran	0.6	ug/L		U	0		0.6		
Toluene	0.06	ug/L		U	0		0.06		
rans-1,2-Dichloroethene	0.06	ug/L		U	0		0.06		
rans-1,3-Dichloropropene	0.014	ug/L		U	0		0.014		
Γrichloroethene	0.03	ug/L		U	0		0.03		
Trichlorofluoromethane	0.05	ug/L		U	0		0.05		
Vinyl acetate	0.5	ug/L		U	0		0.5		
Vinyl chloride	0.016	ug/L		U	0		0.016		

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analysis Date: Prep Batch #: Analytical Run #: 125991 05/20/2016 Matrix: **GROUND WATER** CTLab #: Analysis Time: Prep Date/Time: Method: 725996 02:24 SW8260C Parent Sample #: 725995 Analyst: RLD Prep Analyst:

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imits		RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.29	ug/L	BDL		4.00	107	71		136	5	21
1,1,1-Trichloroethane	4.22	ug/L	BDL		4.00	106	77		150	1	20
1,1,2,2-Tetrachloroethane	6.11	ug/L	BDL		4.00	153	68		139	23	22
1,1,2-Trichloroethane	4.36	ug/L	BDL		4.00	109	70		139	2	25
1,1-Dichloroethane	4.59	ug/L	BDL		4.00	115	65		149	3	25
1,1-Dichloroethene	4.30	ug/L	BDL		4.00	108	56		164	15	24
1,1-Dichloropropene	4.30	ug/L	BDL		4.00	108	65		146	6	21
1,2 Dichloroethane-d4	97.0	% Recovery			100	97.0	65		128		7
1,2,3-Trichlorobenzene	4.52	ug/L	BDL		4.00	113	62		135	44	31
1,2,3-Trichloropropane	6.42	ug/L	BDL		4.00	160	66		145	35	26
1,2,4-Trichlorobenzene	4.37	ug/L	BDL		4.00	109	61		132	40	29
1,2,4-Trimethylbenzene	4.68	ug/L	BDL		4.00	117	1		154	7	36
1,2-Dibromo-3-chloropropane	4.80	ug/L	BDL		4.00	120	49		144	56	34
1,2-Dibromoethane	4.26	ug/L	BDL		4.00	106	76		132	3	22
1,2-Dichlorobenzene	4.60	ug/L	BDL		4.00	115	78		128	10	23
1,2-Dichloroethane	4.75	ug/L	BDL		4.00	119	70		147	9	21
1,2-Dichloropropane	4.69	ug/L	BDL		4.00	117	72		138	20	19
1,3,5-Trimethylbenzene	4.69	ug/L	BDL		4.00	117	1		151	8	34
1,3-Dichlorobenzene	4.50	ug/L	BDL		4.00	112	78		127	6	22
1,3-Dichloropropane	4.46	ug/L	BDL		4.00	112	73		136	6	23
1,4-Dichlorobenzene	4.63	ug/L	BDL		4.00	116	78		127	11	22
2,2-Dichloropropane	4.14	ug/L	BDL		4.00	104	50		165	2	21
2-Butanone	48.9	ug/L	BDL		40.0	122	45		160	9	29
2-Chlorotoluene	4.83	ug/L	BDL		4.00	121	74		130	9	20
2-Hexanone	64.8	ug/L	BDL		40.0	162	55		143	36	28
4-Chlorotoluene	4.91	ug/L	BDL		4.00	123	57		131	10	22
4-Methyl-2-pentanone	67.1	ug/L	BDL		40.0	168	58		146	33	29
Acetone	59.6	ug/L	BDL		40.0	149	27		172	34	39
Benzene	4.37	ug/L	BDL		4.00	109	81		134	3	17
Bromobenzene	4.18	ug/L	BDL		4.00	104	80		127	2	20
Bromochloromethane	3.74	ug/L	BDL		4.00	94	73		143	5	22
Bromodichloromethane	4.32	ug/L	BDL		4.00	108	64		139	5	20
Bromofluorobenzene	107	% Recovery			100	107	67		120		7
Bromoform	4.18	ug/L	BDL		4.00	104	49		125	5	28
Bromomethane	5.22	ug/L	BDL		4.00	130	59		167	20	34
Carbon disulfide	9.16	ug/L	BDL		8.00	114	12		140	2	31
Carbon tetrachloride	4.23	ug/L	BDL		4.00	106	74		153	5	20
Chlorobenzene	4.33	ug/L	BDL		4.00	108	82		130	3	21
Chloroethane	6.15	ug/L	BDL		4.00	154	64		165	24	26
Chloroform	4.37	ug/L	BDL		4.00	109	73		138	2	18
Chloromethane	5.43	ug/L	BDL		4.00	136	62		157	13	21
cis-1,2-Dichloroethene	4.07	ug/L	BDL		4.00	102	75		152	5	21

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SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analytical Run #:	125991	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	725996	Analysis Time:	02:24	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	725995	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imits		RPD	RPD Limit
cis-1,3-Dichloropropene	4.20	ug/L	BDL		4.00	105	61		129	5	21
d8-Toluene	98.0	% Recovery			100	98.0	60		119		7
Dibromochloromethane	4.13	ug/L	BDL		4.00	103	56		130	4	23
Dibromofluoromethane	93.0	% Recovery			100	93.0	65		128		7
Dibromomethane	4.35	ug/L	BDL		4.00	109	71		142	17	21
Dichlorodifluoromethane	4.47	ug/L	BDL		4.00	112	62		196	6	22
Diisopropyl ether	5.03	ug/L	BDL		4.00	126	46		161	13	27
Ethylbenzene	4.66	ug/L	BDL		4.00	116	52		139	5	24
Hexachlorobutadiene	4.08	ug/L	BDL		4.00	102	66		147	33	30
Isopropylbenzene	4.31	ug/L	BDL		4.00	108	50		135	2	24
m & p-Xylene	8.72	ug/L	BDL		8.00	109	1		156	12	28
Methyl tert-butyl ether	4.46	ug/L	BDL		4.00	112	46		161	23	33
Methylene chloride	4.16	ug/L	BDL		4.00	104	10		181	3	36
n-Butylbenzene	5.27	ug/L	BDL		4.00	132	46		144	15	24
n-Propylbenzene	5.02	ug/L	BDL		4.00	126	51		139	9	23
Naphthalene	4.81	ug/L	BDL		4.00	120	45		135	45	31
o-Xylene	4.47	ug/L	BDL		4.00	112	11		148	4	26
p-Isopropyltoluene	4.91	ug/L	BDL		4.00	123	18		148	9	27
sec-Butylbenzene	4.92	ug/L	BDL		4.00	123	57		138	5	23
Styrene	4.46	ug/L	BDL		4.00	112	1		159	6	40
tert-Butylbenzene	4.71	ug/L	BDL		4.00	118	74		132	6	22
Tetrachloroethene	3.67	ug/L	BDL		4.00	92	79		144	15	21
Tetrahydrofuran	57.0	ug/L	BDL		40.0	142	51		139	24	28
Toluene	4.28	ug/L	BDL		4.00	107	56		141	4	19
trans-1,2-Dichloroethene	4.32	ug/L	BDL		4.00	108	53		161	18	28
trans-1,3-Dichloropropene	4.20	ug/L	BDL		4.00	105	57		124	4	21
Trichloroethene	3.91	ug/L	BDL		4.00	98	74		138	11	19
Trichlorofluoromethane	4.63	ug/L	BDL		4.00	116	83		174	19	23
Vinyl acetate	47.7	ug/L	BDL		40.0	119	0		198	14	25
Vinyl chloride	5.79	ug/L	BDL		4.00	145	65		168	18	21

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Matrix Spike Water

Analytical Run #:	125991	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	725995	Analysis Time:	01:55	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	721951	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits			RPD	RPD Limit
,1,1,2-Tetrachloroethane	4.08	ug/L	BDL		4.00	102	71		136		21
,1,1-Trichloroethane	4.25	ug/L	BDL		4.00	106	77		150		20
,1,2,2-Tetrachloroethane	4.86	ug/L	BDL		4.00	122	68		139		22
,1,2-Trichloroethane	4.27	ug/L	BDL		4.00	107	70		139		25
,1-Dichloroethane	4.45	ug/L	BDL		4.00	111	65		149		25
,1-Dichloroethene	3.69	ug/L	BDL		4.00	92	56		164		24
,1-Dichloropropene	4.57	ug/L	BDL		4.00	114	65		146		21
,2 Dichloroethane-d4	90.0	% Recovery			100	90.0	65		128		7
,2,3-Trichlorobenzene	2.88	ug/L	BDL		4.00	72	62		135		31
,2,3-Trichloropropane	4.49	ug/L	BDL		4.00	112	66		145		26
,2,4-Trichlorobenzene	2.90	ug/L	BDL		4.00	72	61		132		29
,2,4-Trimethylbenzene	4.38	ug/L	BDL		4.00	110	1		154		36
,2-Dibromo-3-chloropropane	2.69	ug/L	BDL		4.00	67	49		144		34
,2-Dibromoethane	4.15	ug/L	BDL		4.00	104	76		132		22
,2-Dichlorobenzene	4.16	ug/L	BDL		4.00	104	78		128		23
,2-Dichloroethane	4.34	ug/L	BDL		4.00	108	70		147		21
,2-Dichloropropane	3.84	ug/L	BDL		4.00	96	72		138		19
,3,5-Trimethylbenzene	4.33	ug/L	BDL		4.00	108	1		151		34
,3-Dichlorobenzene	4.23	ug/L	BDL		4.00	106	78		127		22
,3-Dichloropropane	4.22	ug/L	BDL		4.00	106	73		136		23
,4-Dichlorobenzene	4.16	ug/L	BDL		4.00	104	78		127		22
,2-Dichloropropane	4.21	ug/L	BDL		4.00	105	50		165		21
-Butanone	44.9	ug/L	BDL		40.0	112	45		160		29
-Chlorotoluene	4.42	ug/L	BDL		4.00	110	74		130		20
-Hexanone	45.0	ug/L	BDL		40.0	112	55		143		28
-Chlorotoluene	4.42	ug/L	BDL		4.00	110	57		131		22
-Methyl-2-pentanone	48.2	ug/L	BDL		40.0	120	58		146		29
cetone	42.3	ug/L	BDL		40.0	106	27		172		39
Benzene	4.50	ug/L	BDL		4.00	112	81		134		17
Bromobenzene	4.26	ug/L	BDL		4.00	106	80		127		20
Bromochloromethane	3.94	ug/L	BDL		4.00	98	73		143		22
romodichloromethane	4.10	ug/L	BDL		4.00	102	64		139		20
romofluorobenzene	95.0	% Recovery			100	95.0	67		120		7
romoform	3.97	ug/L	BDL		4.00	99	49		125		28
romomethane	4.26	ug/L	BDL		4.00	106	59		167		34
arbon disulfide	8.97	ug/L	BDL		8.00	112	12		140		31
Carbon tetrachloride	4.46	ug/L	BDL		4.00	112	74		153		20
Chlorobenzene	4.21	ug/L	BDL		4.00	105	82		130		21
Chloroethane	4.84	ug/L	BDL		4.00	121	64		165		26
Chloroform	4.27	ug/L	BDL		4.00	107	73		138		18
Chloromethane	4.78	ug/L	BDL		4.00	120	62		157		21
is-1,2-Dichloroethene	4.27	ug/L	BDL		4.00	107	75		152		21

CTLaboratories LLC 1230 Lange Court • Baraboo, WI 53913 • 608-356-2760 www.ctlaboratories.com

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

Matrix Spike Water

Analytical Run #:	125991	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	725995	Analysis Time:	01:55	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	721951	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imit:		RPD	RPD Limit
cis-1,3-Dichloropropene	3.98	ug/L	BDL		4.00	100	61		129		21
d8-Toluene	99.0	% Recovery			100	99.0	60		119		7
Dibromochloromethane	3.96	ug/L	BDL		4.00	99	56		130		23
Dibromofluoromethane	98.0	% Recovery			100	98.0	65		128		7
Dibromomethane	3.68	ug/L	BDL		4.00	92	71		142		21
Dichlorodifluoromethane	4.19	ug/L	BDL		4.00	105	62		196		22
Diisopropyl ether	4.41	ug/L	BDL		4.00	110	46		161		27
Ethylbenzene	4.42	ug/L	BDL		4.00	110	52		139		24
Hexachlorobutadiene	2.93	ug/L	BDL		4.00	73	66		147		30
Isopropylbenzene	4.41	ug/L	BDL		4.00	110	50		135		24
m & p-Xylene	7.73	ug/L	BDL		8.00	97	1		156		28
Methyl tert-butyl ether	3.53	ug/L	BDL		4.00	88	46		161		33
Methylene chloride	4.03	ug/L	BDL		4.00	101	10		181		36
n-Butylbenzene	4.54	ug/L	BDL		4.00	114	46		144		24
n-Propylbenzene	4.61	ug/L	BDL		4.00	115	51		139		23
Naphthalene	3.05	ug/L	BDL		4.00	76	45		135		31
o-Xylene	4.29	ug/L	BDL		4.00	107	11		148		26
p-Isopropyltoluene	4.47	ug/L	BDL		4.00	112	18		148		27
sec-Butylbenzene	4.66	ug/L	BDL		4.00	116	57		138		23
Styrene	4.22	ug/L	BDL		4.00	106	1		159		40
tert-Butylbenzene	4.42	ug/L	BDL		4.00	110	74		132		22
Tetrachloroethene	4.25	ug/L	BDL		4.00	106	79		144		21
Tetrahydrofuran	45.0	ug/L	BDL		40.0	112	51		139		28
Toluene	4.44	ug/L	BDL		4.00	111	56		141		19
rans-1,2-Dichloroethene	3.61	ug/L	BDL		4.00	90	53		161		28
rans-1,3-Dichloropropene	4.03	ug/L	BDL		4.00	101	57		124		21
Trichloroethene	3.49	ug/L	BDL		4.00	87	74		138		19
Trichlorofluoromethane	3.84	ug/L	BDL		4.00	96	83		174		23
Vinyl acetate	41.5	ug/L	BDL		40.0	104	0		198		25
Vinyl chloride	4.84	ug/L	BDL		4.00	121	65		168		21

ELECTROPLATING

Analytical Run #:	126211	Analysis Date:	05/19/2016	Prep Batch #:	57333	Matrix:	LIQUID
CTLab #:	725422	Analysis Time:	11:32	Prep Date/Time:	05/19/2016 08:30	Method:	RSK175
Parent Sample #:		Analyst:	AMA	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imits		RPD	RPD Limit
Acetylene	2.32	ug/L			3.06	76	70		130		20
Ethane	4.85	ug/L			4.77	102	70		130		20
Ethene	6.98	ug/L			6.79	103	65		124		20
Methane	2.35	ug/L			2.29	103	70		130		20

ELECTROPLATING

Meth	nnd	Rla	nk	Wate	r

Analytical Run #:	126211	Analysis Date:	05/19/2016	Prep Batch #:	57333	Matrix:	LIQUID	
CTLab #:	725421	Analysis Time:	11:42	Prep Date/Time:	05/19/2016 08:30	Method:	RSK175	
Parent Sample #:		Analyst:	AMA	Prep Analyst:	AMA			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Acetylene	0.23	ug/L		U	0		0.23		
Ethane	0.4	ug/L		U	0		0.4		
Ethene	0.5	ug/L		U	0		0.5		
Methane	0.4	ug/L		U	0		0.4		

ELECTROPLATING

Analytical Run #:	126211	Analysis Date:	05/19/2016	Prep Batch #:	57333	Matrix:	GROUND WATER
CTLab #:	725446	Analysis Time:	12:15	Prep Date/Time:	05/19/2016 08:30	Method:	RSK175
Parent Sample #:	725445	Analyst:	AMA	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imits		RPD	RPD Limit
Acetylene	2.23	ug/L	BDL		3.06	73	70		130	1	20
Ethane	4.65	ug/L	BDL		4.77	97	70		130	6	20
Ethene	6.76	ug/L	BDL		6.79	100	41		138	6	43
Methane	2.39	ug/L	BDL		2.29	104	70		130	6	20

ELECTROPLATING

AMA

SDG #: 0 Folder #: 118915 Project Number: 117-7413001.01

AMA

Matrix Spike Water									
Analytical Run #:	126211	Analysis Date:	05/19/2016	Prep Batch #:	57333	Matrix:	GROUND WATER		
CTLab #:	725445	Analysis Time:	12:03	Prep Date/Time:	05/19/2016 08:30	Method:	RSK175		

Prep Analyst:

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imits		RPD	RPD Limit
Acetylene	2.25	ug/L	BDL		3.06	74	70		130		
Ethane	4.38	ug/L	BDL		4.77	92	70		130		
Ethene	6.37	ug/L	BDL		6.79	94	41		138		
Methane	2.24	ug/L	BDL		2.29	98	70		130		

Parent Sample #:

721951

Analyst:



Sample Condition Report

Folder #: 118915 Print Date / Time: 05/11/2016 13:04

Client: TETRA TECH Received Date / Time / By: 05/11/2016 1205 JLS

Project Name: WDNR OCONOMOWOC ELECTROPLATING Log-In Date / Time / By: 05/11/2016 1302 BNA

Project Phase: Project #: 117-7413001.01 PM: BMS

Coolers: 5892 Temperature: 2.4 C On Ice: Y

Custody Seals Present : COC Present:? Y Complete? Y

Seal Intact?YNumbers:NOT PRESENTShip Method:FEDEXTracking Number:776310655175

Adequate Packaging: Y Temp Blank Enclosed? Y

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

NO CUSTODY SEALS NOR TAPE WERE PRESENT ON THE COOLER UPON RECEIPT OF THE SAMPLES.

Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
721951	MW-101S	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
721951	MW-101S		
		VOA HCL 1 /	GAS
		VOA HCL 1 /	GAS
		VOA HCL 1 /	GAS
		Total # of Containers of Type ($VOA\ HCL$) = 3	
721951	MW-101S		
		VOA HCL 1 /	GAS,VOC
		VOA HCL 1 /	GAS,VOC
		VOA HCL 1 /	GAS,VOC
		Total # of Containers of Type ($VOA\ HCL$) = 3	
721951	MW-101S		
		HNO3 1 Y / Total # of Containers of Type (<i>HNO3</i>) = 1	ICP
721951	MW-101S		
		H2SO4 PL 1 Y /	TOC
		Total # of Containers of Type $(H2SO4 PL) = 1$	
Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
	MW-101S		
		HNO3 1 Y /	ICP
		Total # of Containers of Type (HNO3) = 1	
		71 /	

118915

Sample II	D / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
721962	MW-101B	UNPRES PL Total # of Contain	1 ers of Type (<i>U</i>	INPRES PL) = 1	ALK,Anions
721962	MW-101B	VOA HCL VOA HCL VOA HCL Total # of Contain	1 1 1 ers of Type (V	/ // //OA HCL) = 3	GAS GAS GAS
721962	MW-101B	VOA HCL VOA HCL VOA HCL Total # of Contain	1 1 1 ers of Type (<i>V</i>	//////////////////////////////////////	GAS,VOC GAS,VOC GAS,VOC
721962	MW-101B	HNO3 Total # of Contain	1 ers of Type (<i>H</i>	Y NO3) = 1	ICP
721962	MW-101B	H2SO4 PL Total # of Contain	1 ers of Type (<i>H</i>	Y / (2SO4 PL) = 1	TOC
Sample II	D / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
721963	MW-101B	HNO3 Total # of Contain	1 ers of Type (<i>H</i>	Y / INO3) = 1	ICP
Sample II	D / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
721964	MW-14DR	UNPRES PL Total # of Contain	1 ers of Type (<i>U</i>	NPRES PL) = 1	ALK,Anions
721964	MW-14DR	VOA HCL VOA HCL VOA HCL Total # of Contain	1 1 1 ers of Type (<i>V</i>	// // //OA HCL) = 3	GAS GAS GAS
721964	MW-14DR	VOA HCL VOA HCL VOA HCL Total # of Contain	1 1 1 ers of Type (<i>V</i>	//////////////////////////////////////	GAS,VOC GAS,VOC GAS,VOC
721964	MW-14DR	HNO3 Total # of Contain	1 ers of Type (<i>H</i>	Y / INO3) = 1	ICP

721964	MW-14DR		
121904	WW-14DR	H2SO4 PL 1 Y /	TOC
		Total # of Containers of Type (H2SO4 PL) = 1	100
		7.	
Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
721965	MW-14DR		
		HNO3 1 Y /	ICP
		Total # of Containers of Type (HNO3) = 1	
Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
Oampie ii	or Description	Container Type Conta. Code pri Citi/i intered:	16313
721967	MW-1D		
		UNPRES PL 1 /	ALK,Anions
		Total # of Containers of Type (UNPRES PL) = 1	
721967	MW-1D		
		VOA HCL 1 /	GAS
		VOA HCL 1 /	GAS
		VOA HCL 1 /	GAS
		Total # of Containers of Type (VOA HCL) = 3	
724067	MW 4D		
721967	MW-1D	\/OA O	CASVOC
		VOA HCL 1 /	GAS,VOC
		VOA HCL 1 / VOA HCL 1 /	GAS,VOC GAS,VOC
		Total # of Containers of Type (VOA HCL) = 3	GAS, VOC
		Total # of Containers of Type (VOA NCL) = 3	
	MW-1D		
		HNO3 1 Y /	ICP
		Total # of Containers of Type $(HNO3) = 1$	
721967	MW-1D	H2SO4 PI 1 Y /	T00
		1120041 L	TOC
		Total # of Containers of Type $(H2SO4 PL) = 1$	
Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
721981	MW-1D		
		HNO3 1 Y /	ICP
		Total # of Containers of Type (HNO3) = 1	
Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
Jampie II	o, bescription	Container Type Cond. Code pri OK!/Filtered!	16013
721982	MW-1S		
		UNPRES PL 1 /	ALK,Anions
		Total # of Containers of Type $(UNPRES PL) = 1$,
721982	MW-1S	VOA HCL 1 /	GAS
		VOITIOE 1 /	370

```
VOA HCL
                                                                                                   GAS
                                   VOA HCL
                                                                                                   GAS
                                   Total # of Containers of Type
                                                                  (VOA\ HCL) = 3
721982
         MW-1S
                                   VOA HCL
                                                                                                 GAS, VOC
                                    VOA HCL
                                                                                                 GAS, VOC
                                                              1
                                    VOA HCL
                                                                                                 GAS, VOC
                                                                 (VOA\ HCL) =
                                    Total # of Containers of Type
721982
         MW-1S
                                   HNO3
                                                                                                    ICP
                                                                 (HNO3) = 1
                                   Total # of Containers of Type
721982
         MW-1S
                                   H2SO4 PL
                                                                                                   TOC
                                    Total # of Containers of Type
                                                                (H2SO4 PL) = 1
Sample ID / Description
                                    Container Type
                                                         Cond. Code
                                                                        pH OK?/Filtered?
                                                                                                Tests
721994
         MW-1S
                                   HNO3
                                                                                                    ICP
                                                                 (HNO3) = 1
                                    Total # of Containers of Type
Sample ID / Description
                                   Container Type
                                                         Cond. Code
                                                                        pH OK?/Filtered?
                                                                                                Tests
722017
         MW-4S
                                   UNPRES PL
                                                                                                ALK, Anions
                                                                 (UNPRES PL) = 1
                                    Total # of Containers of Type
722017
         MW-4S
                                    VOA HCL
                                                                                                   GAS
                                   VOA HCL
                                                              1
                                                                                                   GAS
                                   VOA HCL
                                                                                                   GAS
                                   Total # of Containers of Type
                                                                  (VOA\ HCL) = 3
722017
         MW-4S
                                    VOA HCL
                                                                                                 GAS, VOC
                                                              1
                                    VOA HCL
                                                              1
                                                                                                 GAS, VOC
                                   VOA HCL
                                                                                                 GAS, VOC
                                    Total # of Containers of Type
                                                                  (VOA\ HCL) = 3
722017
         MW-4S
                                                                                                    ICP
                                   Total # of Containers of Type
                                                                  (HNO3) = 1
722017
         MW-4S
                                   H2SO4 PL
                                                                                                   TOC
                                    Total # of Containers of Type
                                                                 (H2SO4 PL) =
Sample ID / Description
                                   Container Type
                                                         Cond. Code
                                                                        pH OK?/Filtered?
                                                                                                Tests
```

722023 MW-4S

HNO3 1 Y / ICP Total # of Containers of Type (HNO3) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests	
722024 TB-1					
	Trip Blank	1	/	VOC	
	Trip Blank	1	/	VOC	
	Total # of Contain	ers of Type (<i>Tr</i>	ip Blank) = 2		

Condition CodeCondition Description1Sample Received OK

Rev 8/2014	Chain o	F Cus	TODY	Y			<i>3</i> 7 -									P	age of
Company: Tetra Tech Project Contact: May K May Hay (T LABORATO) Telephone: 202 192 1282 Project Name: Folder #: 118915				****	1230 Lange Court, Baraboo, WI 53913 608-356-2760 Fax 608-356-2766 www.ctlaboratories.com Address: 15 N WYDYAKDY SAIK BROKFIELD WI 53045 Invoice To:*												
WDNR OCONOMOWOC FLETT HATE Project #: 117-7413001-01 Location: DCONDMOWOC, WI Sampled By: ASNI BY IZOWALEUS	Company: TETRA TECI			****	****	*** ****	ste	Othe	-	sponsi	ble for	E C A	MAII omp ddre	any:		er CT	Laboratories' terms and conditions
Client Special Instructions	6		8	2	Haling	- اع	ANAL	SES RE	QUEST	ED						S	Turnaround Time Normal RUSH* Date Needed:
Matrix:		Filtered? Y/N		Stolled & FILTON	12 total	M. CFN. OF	2) (a) (3)						-		Total # Containers	Designated MS/MSD	Rush analysis requires prior CT Laboratories' approval Surcharges; 24 hr 200% 2-3 days 100%
GW - groundwater SW - surface water WW - wastewater S - soil/sediment St - sludge A - air Collection W	M - misc/waste Sample ID Description	=		ā s	ඛ <u> </u>	L	 Fill in	Spaces v	with Bo	ttles	oer T	est			,	۵	4-9 days 50% CT Lab ID # Lab use only
	MW - 10 1s		V	Υ.	1 1	3	3			<u> </u>	<u> </u>			1	0		721951/721961
1 1310	mw-101B		Y	V	1 1	3	3							į	10		721962/72196
OCPI	mw-14DR		1	1	1	3	3	-						1	Ó	•	721964/721965
1546	WM-1D		1 1	_ (1	3	3		_						0		721967/72198
1555	mw-15		1	1	111		3	- "		-	-				Ø	Street	721982/721994
1520 1	mw-4s		1	1	1	3	3		<u> </u>					Ų.	<u></u>		72 2633 /7226
	TB-1		+			-							•	}	*	•	722024
				-	-				_	-		- 1					
A de la					-									-			
	cetylene added by Bms af	ter con	him	ing i	with	the c	lient	•							1.5		
		 				1											
	Date/Time 5-10-15 17-30	Receive						· · · · · · · · · · · · · · · · · · ·			te/Tim	٠.	. *	l . - -			Present (Yes) No
Received by: Date/Time			Received for Laboratory by: Date/Time										np <u>2.4°C IR Gun # 14</u> oler # <u>580</u> D				

CT Laboratories Terms and Conditions

Where a purchaser (Client) places an order for toboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absonce of a written agreement to the contrary, the Order constitutes an acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unloss accepted by CTL in advance of the start of the project and in writing.

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

- 1.1 The Ctent may place the Order (i.e., specify a Scope of Work) either by submitting a purchase order to CTL in writing, by telephone (confirmed in writing) or by negotiated contract. Whichever option the Client selects for placing the Order, the Order shall not be valid unless it contains sufficient specification to enable CTL to carry out the Ctient's requirements. It is the policy of CT Laboratories that camples not meeting the acceptance offloria, outlined in the NELAC standards and Section 5.8.3.2 of the DOD QSM, will not be accepted by the laboratory or will be qualified on the final report. All samples submitted to the laboratory must: (1) be accompanied by proper, full and complete documentation, including sample identification, location, date and time of collections have collector's name, type of preservation (if any), type of sample, any special comments concerning the sample and any additional perlinent fields on the chain-of-custody. In the absence of any of the required information, the laboratory will attempt to contact the client to obtain the information; if unable to obtain the necessary information, the final report will be qualified. (2) be labeled appropriately with a unique sample identification written with indetible ink on water resistant labels. If the laboratory cannot determine the identity of a sample, it will be rejected and the client will be contacted for further instructions or resampling. (3) be in an appropriate 58mple container, if the container is inappropriate, the client will be contacted for further instructions or resampling. If analysis is possible, the final report will be qualified. CT Laboratorios can provide a sampling guide containing approved containers and preservations for analytical methods requested. (4) adhere to specified holding times. If samples are received with less than 1/4 the holding times are exceeded, the final report will to qualified, (5) contain adequate sample volume to perform the necessary testing. If sufficient volume is not present, the sample will be rejected and the client will be contacted for further instructions or resampling. If samples show signs of damago, contamination or inadequate preservation, the client will be notified. If analysis can be performed, the final report will be qualified. If not, the samples will be rejected and the client notified for further instructions or resampling.
- 1.2 CT Laboratorios must be supplied with complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.
- 1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or lability for the action or haction of any carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services purformed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are not 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-hall percent (1.5%) (or the maximum rate permissable by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable atternoy's fees. CTL reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

- 3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with the CEant is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.
- 3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Ctiont ufter sample acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commisment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.
- 3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

- 4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Cleant may request that CTL perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, CTL will proceed with analyses under its standard Quality Manuals then in effect, and CTL will not be responsible for any resampting or other charges if work must be repeated to comply with a subsequently finalized QAPP.
- 4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of campling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Acceptance does not occur within this period, CTL will use its best offerts to meet holding times and will proceed with the work provided that, in CTL's Judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warrenty will be deemed to have been met.
- 4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Torms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any decertification or
- revocation of any license, or notice of either, which affects work in progress. 4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR
- WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way. 4.5 Clerit's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be firmised to repeating any services performed, contingent on the Client's providing, at the inequality of the breach of warranty in connection with any services performed by CTL, will be firmised to repeating any services performed, contingent on the Client's providing, at the inequality of the breach of warranty in connection with any services performed by CTL, will be firmised to repeating any services performed, contingent on the Client's providing, at the inequality of the breach of warranty in connection with any services performed by CTL, will be firmised to repeating any services performed.
- the Client generating Rossiss consistent with the original Results will be at the Client's expense. If resumpting is necessary, CTL's liability for resumpting costs will be limited to actual cost or one hundred or one hundred (\$150) per sample, whichever is less. 4.6 CTL's liability for any and all causes of action crising hereunder, whether based in contract, tort, warranty, negfigence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including the services performed or \$100,000. All claims, including the services performed or \$100,000. All claims are services perf sult thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages
- occasioned by the cervices performed or by application or use of the reports prepared. 4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, malfor delivery services, or any other cause boyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

- 5.1 Date or information provided to CTL or generated by convices performed under this agreement chall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.
- 5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay CTL for all services rendered or is otherwise in breach of these Torms and Conditions), subject to any disclosure required by law or logal process.
- 5.3 Should the Results delivered by CTL be used by the Client or Client's client, oven though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual egreement. In no case shall the Client
- unreasonably withhold CTL's right to independently defend its data. 5.4 CTL reserves the right to subcontract services ordered by the Client to another laboratory or laboratory or laboratories, if, in CTL's sole judgment, it is reasonably necessary, appropriate or advisable to do co, and with the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and incurance are those of the subcontracted laboratory.
- 5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable Federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Cizent at their own expense. CTL roserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated waste disposal vendor(s).
- 5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to rotain all records for five (5) years.
- 5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the Itigation.

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liabity Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period, Comprehensive General and Contractual Liability (limit of \$2,000,000 per occurrence/ aggregate), Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of \$5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7. AUDIT

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices



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Szymanski, Brett M

From: Manthey, Mark < Mark. Manthey@tetratech.com>

Sent: 06/16/2016 17:34 To: Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Yes, the value is wrong. The DO value for MW-12M should be 0.93

Thanks again.

Mark A. Manthey, P.G. | Associate Hydrogeologist Office: 262-792-1282 ext. 271 | Fax: 262-792-1310

Mark.Manthey@tetratech.com

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From: Szymanski, Brett M [mailto:BSzymanski@ctlaboratories.com]

Sent: Thursday, June 16, 2016 4:58 PM

To: Manthey, Mark < Mark. Manthey@tetratech.com>

Subject: RE: Correct field parameters data for MW-13S sample

Hello Mark,

In looking at the field data, I'm assuming the DO for MW-12B is also incorrect? It looks like a conductivity reading.

Brett Szymanski

Project Manager CT Laboratories, LLC 1230 Lange Court Baraboo, WI 53913 Phone: 608-356-2760

Fax: 608-356-2766

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From: Manthey, Mark [mailto:Mark.Manthey@tetratech.com]

Sent: 06/16/2016 4:49 PM

To: Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Sorry again!

Found another error for the Dissolved Oxygen value for the TW-2021 sample (Sample ID = 75710). The correct DO value is 2.55 mg/L

Mark A. Manthey, P.G. | Associate Hydrogeologist Office: 262-792-1282 ext. 271 | Fax: 262-792-1310

Mark.Manthey@tetratech.com

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From: Szymanski, Brett M [mailto:BSzymanski@ctlaboratories.com]

Sent: Thursday, June 16, 2016 4:44 PM

To: Manthey, Mark < Mark. Manthey@tetratech.com>

Subject: RE: Correct field parameters data for MW-13S sample

Hello Mark,

I'll get these field data updated with the correct information and send out revised analytical reports and EDDs by Monday, June 20th.

Have a good afternoon,

Brett Szymanski

Project Manager CT Laboratories, LLC 1230 Lange Court Baraboo, WI 53913 Phone: 608-356-2760

Fax: 608-356-2766 www.ctlaboratories.com

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From: Manthey, Mark [mailto:Mark.Manthey@tetratech.com]

Sent: 06/16/2016 4:41 PM **To:** Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Hi Brett,

Sorry about this, but I found another error in the field parameters data I sent you. It is for the MW-101S sample. The correct field data is listed below:

Sample	Well ID	Analyte	Units	Date	Result
721951	MW-101S	Color (Field)		5/10/2016	Clear
721951	MW-101S	Conductivity (Field)	umhos/cm	5/10/2016	3180
		Dissolved Oxygen			
721951	MW-101S	(Field)	mg/L	5/10/2016	2.62
721951	MW-101S	OX/REDOX (Field)	MV	5/10/2016	336
721951	MW-101S	pH (Field)	S.U.	5/10/2016	6.82
721951	MW-101S	Temperature (Field)	Deg. C	5/10/2016	9.98
721951	MW-101S	Turbidity (Field)		5/10/2016	clear

Thanks again.

Mark A. Manthey, P.G. | Associate Hydrogeologist

Office: 262-792-1282 ext. 271 | Fax: 262-792-1310

Mark.Manthey@tetratech.com

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From: Manthey, Mark

Sent: Thursday, June 16, 2016 11:28 AM

To: 'BSzymanski@ctlaboratories.com' < <u>BSzymanski@ctlaboratories.com</u>>

Subject: Correct field parameters data for MW-13S sample

Brett,

Per our telephone conversation, below are the correct field parameters readings for the MW-13S sample:

Sample Date: 5/13/2016

Field Parameters

Dissolved Oxygen (DO) = 3.78 mg/L

Oxidation Reduction Potential = 130 millivolts

pH = 7.35

Specific Conductivity = 832 umhos/cm

Temperature = 12.29 deg-C Turbidity = 30.2 ntu

Thanks.

Mark A. Manthey, P.G. | Associate Hydrogeologist Office: 262-792-1282 ext. 271 | Fax: 262-792-1310 Mark.Manthey@tetratech.com

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CT LABORATORIES

delivering more than data from your environmental analyses

ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



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delivering more than data from your environmental analyses

REVISED ANALYTICAL REPORT

TETRA TECH

MARK MANTHEY

175 N CORPORATE DRIVE

SUITE 100

BROOKFIELD, WI 53045

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project Phase: Contract #: 2747

Project #: 117-7413001.01

Folder #: 118945

Purchase Order #:

. . ._

Page 1 of 42

Arrival Temperature: 2.9

Report Date: 05/27/2016

Date Received: 05/12/2016

Reprint Date:

06/17/2016

Revision Date 06/17/2016

CT LAB Sample#: 722472 Sample Description: MW-105S							License/V	Vell #: 4189/043	Samp	led: 05/11/2016 1030
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time		st Method
Field Results										
Dissolved Oxygen (Field)	0	mg/L	N/A	N/A	1			05/11/2016 00	:00 SL	JB
OX/REDOX (Field)	-17	MV	N/A	N/A	1			05/11/2016 00	:00 Sl	JB
Color (Field)	cloudy		N/A	N/A	1			05/11/2016 00	:00 Sl	JB FIELD
Conductivity (Field)	1530	umhos/cm	N/A	N/A	1			05/11/2016 00	:00 Sl	JB FIELD
pH (Field)	7.04	S.U.	N/A	N/A	1			05/11/2016 00	:00 Sl	JB FIELD
Temperature (Field)	12.88	Deg. C	N/A	N/A	1			05/11/2016 00	:00 Sl	JB FIELD
Turbidity (Field)	cloudy		N/A	N/A	1			05/11/2016 00):00 Sl	JB FIELD
Inorganic Results										
Alkalinity Total	410	mg/L	5.0	18	1			05/12/2016 16	6:42 MI	ER EPA 310.2
Total Chloride	320	mg/L	5.6	19	8			05/18/2016 12	2:18 JJ	F EPA 9056A
Total Sulfate	56	mg/L	4.0	14	8			05/18/2016 12	2:18 JJ	F EPA 9056A
Total Organic Carbon	3.0	mg/L	0.50	1.7	1			05/23/2016 1	5:21 JJ	F EPA 9060A
Metals Results										
Total Iron	2.27	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 17	':11 NA	AH EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 118945

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	yst Method
Total Manganese	174	ug/L	1.4	4.7	1		05/16/2016 10:00	05/16/2016 17:11	IAH EPA 6010C
Organic Results									
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 13:56	MA Mod RSK 175
Ethane	2.3	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 13:56	MA Mod RSK 175
Ethene	0.67	ug/L	0.50 *	1.8	1		05/19/2016 08:30	05/19/2016 13:56	MA Mod RSK 175
Methane	240	ug/L	8.0	24	20		05/19/2016 08:30	05/19/2016 14:08	MA Mod RSK 175
Volatile Organic Compounds 8260 Cor	mments: Suspected	methylene chlorid	e and acetone labo	ratory contan	nination.				
1,1,1,2-Tetrachloroethane	<5.0	ug/L	5.0	18	100				RLD EPA 8260C
1,1,1-Trichloroethane	<6.0	ug/L	6.0	21	100			05/21/2016 14:22	RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<2.0	ug/L	2.0	6.5	100			05/21/2016 14:22	RLD EPA 8260C
1,1,2-Trichloroethane	<5.0	ug/L	5.0	17	100			05/21/2016 14:22	RLD EPA 8260C
1,1-Dichloroethane	87	ug/L	6.0	19	100			05/21/2016 14:22	RLD EPA 8260C
1,1-Dichloroethene	12	ug/L	7.0 *	23	100			05/21/2016 14:22	RLD EPA 8260C
1,1-Dichloropropene	<6.0	ug/L	6.0	19	100			05/21/2016 14:22	RLD EPA 8260C
1,2,3-Trichlorobenzene	<5.0	ug/L	5.0	16	100			05/21/2016 14:22	RLD EPA 8260C
1,2,3-Trichloropropane	<4.0	ug/L	4.0	13	100			05/21/2016 14:22	RLD EPA 8260C
1,2,4-Trichlorobenzene	<4.0	ug/L	4.0	13	100			05/21/2016 14:22	RLD EPA 8260C
1,2,4-Trimethylbenzene	<5.0	ug/L	5.0	17	100			05/21/2016 14:22	RLD EPA 8260C
1,2-Dibromo-3-chloropropane	<3.0	ug/L	3.0	10	100			05/21/2016 14:22	RLD EPA 8260C
1,2-Dibromoethane	<4.0	ug/L	4.0	14	100			05/21/2016 14:22	RLD EPA 8260C
1,2-Dichlorobenzene	<6.0	ug/L	6.0	19	100			05/21/2016 14:22	RLD EPA 8260C
1,2-Dichloroethane	<4.0	ug/L	4.0	14	100			05/21/2016 14:22	RLD EPA 8260C
1,2-Dichloropropane	<6.0	ug/L	6.0	20	100			05/21/2016 14:22	RLD EPA 8260C
1,3,5-Trimethylbenzene	<6.0	ug/L	6.0	20	100			05/21/2016 14:22	RLD EPA 8260C

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
olatile Organic Compounds 8260 (Comments: Suspected	methylene chlorid	e and acetone lab	oratory contan	nination.				
1,3-Dichlorobenzene	<6.0	ug/L	6.0	21	100			05/21/2016 14:22 RLD	EPA 8260C
1,3-Dichloropropane	<4.0	ug/L	4.0	13	100			05/21/2016 14:22 RLD	EPA 8260C
,4-Dichlorobenzene	<5.0	ug/L	5.0	16	100			05/21/2016 14:22 RLD	EPA 8260C
2,2-Dichloropropane	<4.0	ug/L	4.0	12	100			05/21/2016 14:22 RLD	EPA 8260C
2-Butanone	<80	ug/L	80	280	100			05/21/2016 14:22 RLD	EPA 8260C
2-Chlorotoluene	<6.0	ug/L	6.0	19	100			05/21/2016 14:22 RLD	EPA 8260C
2-Hexanone	<40	ug/L	40	140	100			05/21/2016 14:22 RLD	EPA 8260C
-Chlorotoluene	<5.0	ug/L	5.0	18	100			05/21/2016 14:22 RLD	EPA 8260C
-Methyl-2-pentanone	<40	ug/L	40	140	100			05/21/2016 14:22 RLD	EPA 8260C
cetone	2900	ug/L	90	310	100	В		05/21/2016 14:22 RLD	EPA 8260C
enzene	<6.0	ug/L	6.0	18	100			05/21/2016 14:22 RLD	EPA 8260C
Bromobenzene	<4.0	ug/L	4.0	14	100			05/21/2016 14:22 RLD	EPA 8260C
Bromochloromethane	<1.7	ug/L	1.7	5.8	100			05/21/2016 14:22 RLD	EPA 8260C
Bromodichloromethane	<1.7	ug/L	1.7	5.8	100			05/21/2016 14:22 RLD	EPA 8260C
Bromoform	<1.8	ug/L	1.8	6.0	100			05/21/2016 14:22 RLD	EPA 8260C
Bromomethane	<9.0	ug/L	9.0	29	100			05/21/2016 14:22 RLD	EPA 8260C
Carbon disulfide	<11	ug/L	11	38	100			05/21/2016 14:22 RLD	EPA 8260C
Carbon tetrachloride	<6.0	ug/L	6.0	20	100			05/21/2016 14:22 RLD	EPA 8260C
Chlorobenzene	<4.0	ug/L	4.0	14	100			05/21/2016 14:22 RLD	EPA 8260C
Chloroethane	<6.0	ug/L	6.0	21	100			05/21/2016 14:22 RLD	EPA 8260C
Chloroform	<6.0	ug/L	6.0	20	100			05/21/2016 14:22 RLD	EPA 8260C
Chloromethane	<5.0	ug/L	5.0	18	100			05/21/2016 14:22 RLD	EPA 8260C
is-1,2-Dichloroethene	980	ug/L	6.0	21	100			05/21/2016 14:22 RLD	EPA 8260C

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 118945

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Volatile Organic Compounds 8260 C	Comments: Suspected	I methylene chlorid	e and acetone lab	oratory contan	nination.					
cis-1,3-Dichloropropene	<1.5	ug/L	1.5	4.9	100			05/21/2016 14:23	2 RLD	EPA 8260C
Dibromochloromethane	<1.6	ug/L	1.6	5.4	100			05/21/2016 14:22	2 RLD	EPA 8260C
Dibromomethane	<6.0	ug/L	6.0	19	100			05/21/2016 14:22	2 RLD	EPA 8260C
Dichlorodifluoromethane	<6.0	ug/L	6.0	19	100			05/21/2016 14:22	2 RLD	EPA 8260C
Diisopropyl ether	<4.0	ug/L	4.0	15	100			05/21/2016 14:22	2 RLD	EPA 8260C
Ethylbenzene	<6.0	ug/L	6.0	21	100			05/21/2016 14:22	2 RLD	EPA 8260C
Hexachlorobutadiene	<7.0	ug/L	7.0	24	100			05/21/2016 14:22	2 RLD	EPA 8260C
sopropylbenzene	<5.0	ug/L	5.0	17	100			05/21/2016 14:22	2 RLD	EPA 8260C
n & p-Xylene	<12	ug/L	12	40	100			05/21/2016 14:22	2 RLD	EPA 8260C
Methyl tert-butyl ether	<4.0	ug/L	4.0	15	100			05/21/2016 14:22	2 RLD	EPA 8260C
Methylene chloride	170	ug/L	6.0	21	100			05/21/2016 14:22	2 RLD	EPA 8260C
n-Butylbenzene	<5.0	ug/L	5.0	17	100			05/21/2016 14:22	2 RLD	EPA 8260C
n-Propylbenzene	<5.0	ug/L	5.0	16	100			05/21/2016 14:22	2 RLD	EPA 8260C
Naphthalene	<5.0	ug/L	5.0	18	100			05/21/2016 14:22	2 RLD	EPA 8260C
o-Xylene	<5.0	ug/L	5.0	16	100			05/21/2016 14:22	2 RLD	EPA 8260C
o-Isopropyltoluene	<6.0	ug/L	6.0	21	100			05/21/2016 14:22	2 RLD	EPA 8260C
sec-Butylbenzene	<5.0	ug/L	5.0	18	100			05/21/2016 14:22	2 RLD	EPA 8260C
Styrene	<5.0	ug/L	5.0	15	100			05/21/2016 14:22	2 RLD	EPA 8260C
ert-Butylbenzene	<6.0	ug/L	6.0	19	100			05/21/2016 14:22	2 RLD	EPA 8260C
etrachloroethene	<6.0	ug/L	6.0	20	100			05/21/2016 14:22	2 RLD	EPA 8260C
etrahydrofuran	<60	ug/L	60	210	100			05/21/2016 14:22	2 RLD	EPA 8260C
oluene	<6.0	ug/L	6.0	21	100			05/21/2016 14:22	2 RLD	EPA 8260C
rans-1,2-Dichloroethene	160	ug/L	6.0	20	100			05/21/2016 14:2:	2 RLD	EPA 8260C

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CT LAB Sample#: 722472 Sample Description: MW-105S	License/Well #: 4189/043	Sampled: 05/11/2016 1030
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
Volatile Organic Compounds 8260 (Comments: Suspected	d methylene chlori	de and acetone lab	oratory contar	mination.				
trans-1,3-Dichloropropene	<1.4	ug/L	1.4	4.8	100			05/21/2016 14:22 RL	D EPA 8260C
Trichloroethene	1200	ug/L	3.0	10	100			05/21/2016 14:22 RL	D EPA 8260C
Trichlorofluoromethane	<5.0	ug/L	5.0	18	100			05/21/2016 14:22 RL	D EPA 8260C
Vinyl acetate	<50	ug/L	50	160	100			05/21/2016 14:22 RL	D EPA 8260C
Vinyl chloride	6.4	ug/L	1.6	5.2	100			05/21/2016 14:22 RL	LD EPA 8260C
CT LAB Sample#: 722475 Sam	ple Description: MW-	105S					License/\	Well #: 4189/043 Samp	oled: 05/11/2016 1030
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
Metals Results									
Dissolved Iron	2.84	mg/L	0.010	0.032	1	М		05/16/2016 12:52 NA	AH EPA 6010C
Dissolved Manganese	175	ug/L	1.6	5.3	1			05/16/2016 12:52 NA	AH EPA 6010C
CT LAB Sample#: 722476 Sam	ple Description: MW-	105S DUP					License/\	Well #: 4189/043 Samp	led: 05/11/2016 1035
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
Inorganic Results									
Alkalinity Total	410	mg/L	5.0	18	1			05/12/2016 16:43 MI	ER EPA 310.2
Total Chloride	250	mg/L	7.0	24	10			05/18/2016 19:10 JJ	F EPA 9056A
Total Sulfate	57	mg/L	4.0	14	8			05/18/2016 12:37 JJ	F EPA 9056A
Total Organic Carbon	3.8	mg/L	0.50	1.7	1			05/23/2016 16:06 JJ	F EPA 9060A

Metals Results

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	t Method
Total Iron	2.34	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 17:18 NA	H EPA 6010C
Total Manganese	169	ug/L	1.4	4.7	1		05/16/2016 10:00	05/16/2016 17:18 NA	H EPA 6010C
Organic Results									
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 14:17 AM	A Mod RSK 175
Ethane	2.3	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 14:17 AM	A Mod RSK 175
Ethene	0.68	ug/L	0.50 *	1.8	1		05/19/2016 08:30	05/19/2016 14:17 AM	A Mod RSK 175
Methane	230	ug/L	8.0	24	20		05/19/2016 08:30	05/19/2016 14:26 AM	A Mod RSK 175
Volatile Organic Compounds 8260 Co	omments: Suspected	I methylene chlori	de and acetone labo	oratory contar	nination.				
1,1,1,2-Tetrachloroethane	<5.0	ug/L	5.0	18	100			05/21/2016 14:50 RLI	D EPA 8260C
1,1,1-Trichloroethane	<6.0	ug/L	6.0	21	100			05/21/2016 14:50 RLI	D EPA 8260C
1,1,2,2-Tetrachloroethane	<2.0	ug/L	2.0	6.5	100			05/21/2016 14:50 RLI	D EPA 8260C
1,1,2-Trichloroethane	<5.0	ug/L	5.0	17	100			05/21/2016 14:50 RLI	D EPA 8260C
1,1-Dichloroethane	78	ug/L	6.0	19	100			05/21/2016 14:50 RLI	D EPA 8260C
1,1-Dichloroethene	13	ug/L	7.0 *	23	100			05/21/2016 14:50 RLI	D EPA 8260C
1,1-Dichloropropene	<6.0	ug/L	6.0	19	100			05/21/2016 14:50 RLI	D EPA 8260C
1,2,3-Trichlorobenzene	<5.0	ug/L	5.0	16	100			05/21/2016 14:50 RLI	D EPA 8260C
1,2,3-Trichloropropane	<4.0	ug/L	4.0	13	100			05/21/2016 14:50 RLI	D EPA 8260C
1,2,4-Trichlorobenzene	<4.0	ug/L	4.0	13	100			05/21/2016 14:50 RLI	D EPA 8260C
1,2,4-Trimethylbenzene	<5.0	ug/L	5.0	17	100			05/21/2016 14:50 RLI	D EPA 8260C
1,2-Dibromo-3-chloropropane	<3.0	ug/L	3.0	10	100			05/21/2016 14:50 RLI	D EPA 8260C
1,2-Dibromoethane	<4.0	ug/L	4.0	14	100			05/21/2016 14:50 RLI	D EPA 8260C
1,2-Dichlorobenzene	<6.0	ug/L	6.0	19	100			05/21/2016 14:50 RLI	D EPA 8260C
1,2-Dichloroethane	<4.0	ug/L	4.0	14	100			05/21/2016 14:50 RLI	D EPA 8260C
1,2-Dichloropropane	<6.0	ug/L	6.0	20	100			05/21/2016 14:50 RLI	D EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
/olatile Organic Compounds 8260 (Comments: Suspected	I methylene chlorid	e and acetone lab	oratory contan	nination.				
1,3,5-Trimethylbenzene	<6.0	ug/L	6.0	20	100			05/21/2016 14:50 RL	D EPA 8260C
1,3-Dichlorobenzene	<6.0	ug/L	6.0	21	100			05/21/2016 14:50 RL	D EPA 8260C
,3-Dichloropropane	<4.0	ug/L	4.0	13	100			05/21/2016 14:50 RL	D EPA 8260C
,4-Dichlorobenzene	<5.0	ug/L	5.0	16	100			05/21/2016 14:50 RL	D EPA 8260C
,2-Dichloropropane	<4.0	ug/L	4.0	12	100			05/21/2016 14:50 RL	D EPA 8260C
-Butanone	<80	ug/L	80	280	100			05/21/2016 14:50 RL	D EPA 8260C
-Chlorotoluene	<6.0	ug/L	6.0	19	100			05/21/2016 14:50 RL	D EPA 8260C
-Hexanone	<40	ug/L	40	140	100			05/21/2016 14:50 RL	.D EPA 8260C
-Chlorotoluene	<5.0	ug/L	5.0	18	100			05/21/2016 14:50 RL	D EPA 8260C
-Methyl-2-pentanone	<40	ug/L	40	140	100			05/21/2016 14:50 RL	D EPA 8260C
cetone	3100	ug/L	90	310	100	В		05/21/2016 14:50 RL	D EPA 8260C
enzene	<6.0	ug/L	6.0	18	100			05/21/2016 14:50 RL	D EPA 8260C
Bromobenzene	<4.0	ug/L	4.0	14	100			05/21/2016 14:50 RL	D EPA 8260C
romochloromethane	<1.7	ug/L	1.7	5.8	100			05/21/2016 14:50 RL	D EPA 8260C
Bromodichloromethane	<1.7	ug/L	1.7	5.8	100			05/21/2016 14:50 RL	D EPA 8260C
romoform	<1.8	ug/L	1.8	6.0	100			05/21/2016 14:50 RL	D EPA 8260C
romomethane	<9.0	ug/L	9.0	29	100			05/21/2016 14:50 RL	D EPA 8260C
Carbon disulfide	<11	ug/L	11	38	100			05/21/2016 14:50 RL	D EPA 8260C
arbon tetrachloride	<6.0	ug/L	6.0	20	100			05/21/2016 14:50 RL	D EPA 8260C
hlorobenzene	<4.0	ug/L	4.0	14	100			05/21/2016 14:50 RL	D EPA 8260C
hloroethane	<6.0	ug/L	6.0	21	100			05/21/2016 14:50 RL	D EPA 8260C
Chloroform	<6.0	ug/L	6.0	20	100			05/21/2016 14:50 RL	D EPA 8260C
Chloromethane	<5.0	ug/L	5.0	18	100			05/21/2016 14:50 RL	D EPA 8260C

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olatile Organic Compounds 8260 (Comments: Suspected	methylene chlorid	e and acetone lab	oratory contan	nination.					
cis-1,2-Dichloroethene	920	ug/L	6.0	21	100			05/21/2016 14:50	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.5	ug/L	1.5	4.9	100			05/21/2016 14:50	RLD	EPA 8260C
Dibromochloromethane	<1.6	ug/L	1.6	5.4	100			05/21/2016 14:50	RLD	EPA 8260C
Dibromomethane	<6.0	ug/L	6.0	19	100			05/21/2016 14:50	RLD	EPA 8260C
Dichlorodifluoromethane	<6.0	ug/L	6.0	19	100			05/21/2016 14:50	RLD	EPA 8260C
Diisopropyl ether	<4.0	ug/L	4.0	15	100			05/21/2016 14:50	RLD	EPA 8260C
Ethylbenzene	<6.0	ug/L	6.0	21	100			05/21/2016 14:50	RLD	EPA 8260C
Hexachlorobutadiene	<7.0	ug/L	7.0	24	100			05/21/2016 14:50	RLD	EPA 8260C
sopropylbenzene	<5.0	ug/L	5.0	17	100			05/21/2016 14:50	RLD	EPA 8260C
n & p-Xylene	<12	ug/L	12	40	100			05/21/2016 14:50	RLD	EPA 8260C
lethyl tert-butyl ether	<4.0	ug/L	4.0	15	100			05/21/2016 14:50	RLD	EPA 8260C
Methylene chloride	140	ug/L	6.0	21	100			05/21/2016 14:50	RLD	EPA 8260C
n-Butylbenzene	<5.0	ug/L	5.0	17	100			05/21/2016 14:50	RLD	EPA 8260C
n-Propylbenzene	<5.0	ug/L	5.0	16	100			05/21/2016 14:50	RLD	EPA 8260C
Naphthalene	<5.0	ug/L	5.0	18	100			05/21/2016 14:50	RLD	EPA 8260C
o-Xylene	<5.0	ug/L	5.0	16	100			05/21/2016 14:50	RLD	EPA 8260C
o-Isopropyltoluene	<6.0	ug/L	6.0	21	100			05/21/2016 14:50	RLD	EPA 8260C
ec-Butylbenzene	<5.0	ug/L	5.0	18	100			05/21/2016 14:50	RLD	EPA 8260C
tyrene	<5.0	ug/L	5.0	15	100			05/21/2016 14:50	RLD	EPA 8260C
ert-Butylbenzene	<6.0	ug/L	6.0	19	100			05/21/2016 14:50	RLD	EPA 8260C
etrachloroethene	<6.0	ug/L	6.0	20	100			05/21/2016 14:50	RLD	EPA 8260C
etrahydrofuran	<60	ug/L	60	210	100			05/21/2016 14:50	RLD	EPA 8260C
oluene	<6.0	ug/L	6.0	21	100			05/21/2016 14:50	RLD	EPA 8260C

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CT LAB Sample#: 722476 Sample	ole Description: MW-1	05S DUP					License/\	Well #: 4189/043	Sampled:	05/11/2016 103
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
/olatile Organic Compounds 8260 C	Comments: Suspected	methylene chloride	and acetone lab	oratory contar	nination.					
rans-1,2-Dichloroethene	140	ug/L	6.0	20	100			05/21/2016 14:5	50 RLD	EPA 8260C
rans-1,3-Dichloropropene	<1.4	ug/L	1.4	4.8	100			05/21/2016 14:5	0 RLD	EPA 8260C
Frichloroethene	1100	ug/L	3.0	10	100			05/21/2016 14:5	0 RLD	EPA 8260C
Trichlorofluoromethane	<5.0	ug/L	5.0	18	100			05/21/2016 14:5	0 RLD	EPA 8260C
/inyl acetate	<50	ug/L	50	160	100			05/21/2016 14:5	0 RLD	EPA 8260C
/inyl chloride	3.0	ug/L	1.6 *	5.2	100			05/21/2016 14:5	0 RLD	EPA 8260C
CT LAB Sample#: 722477 Sample	ole Description: MW-1	05S DUP					License/\	Well #: 4189/043	Sampled:	05/11/2016 10
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis	Analyst	Method
							Date/Time	Date/Time		
Metals Results							Date/Time	Date/Time		
	1.51	mg/L	0.010	0.032	1		Date/Time	05/16/2016 13:1	1 NAH	EPA 6010C
Dissolved Iron	1.51 172	mg/L ug/L	0.010 1.6	0.032 5.3	1		Date/Time			EPA 6010C EPA 6010C
Dissolved Iron Dissolved Manganese		ug/L			-			05/16/2016 13:1	1 NAH	EPA 6010C
Dissolved Iron Dissolved Manganese	172	ug/L			-	Qualifier		05/16/2016 13:1 05/16/2016 13:1 Well #: 4189/044	1 NAH	EPA 6010C
Dissolved Iron Dissolved Manganese CT LAB Sample#: 722478 Samp	172 DIe Description: MW-1	ug/L	1.6	5.3	1	Qualifier	License/\ Prep	05/16/2016 13:1 05/16/2016 13:1 Well #: 4189/044 Analysis	1 NAH Sampled:	EPA 6010C
Dissolved Iron Dissolved Manganese CT LAB Sample#: 722478 Sample Analyte Field Results	172 DIe Description: MW-1	ug/L	1.6	5.3	1	Qualifier	License/\ Prep	05/16/2016 13:1 05/16/2016 13:1 Well #: 4189/044 Analysis	1 NAH Sampled: Analyst	EPA 6010C
Dissolved Iron Dissolved Manganese CT LAB Sample#: 722478 Sample Analyte	172 Die Description: MW-1 Result	ug/L 05D Units	1.6	LOQ	Dilution	Qualifier	License/\ Prep	05/16/2016 13:1 05/16/2016 13:1 Well #: 4189/044 Analysis Date/Time	Sampled: Analyst 00 SUB	EPA 6010C
Dissolved Iron Dissolved Manganese CT LAB Sample#: 722478 Sample Analyte Field Results Dissolved Oxygen (Field)	172 Die Description: MW-1 Result	ug/L 05D Units mg/L	LOD	LOQ N/A	Dilution 1	Qualifier	License/\ Prep	05/16/2016 13:1 05/16/2016 13:1 Well #: 4189/044 Analysis Date/Time	Sampled: Analyst 00 SUB 00 SUB	EPA 6010C

delivering more than data from your environmental analyses

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05/21/2016 13:53 RLD EPA 8260C

05/21/2016 13:53 RLD EPA 8260C

CT LAB Sample#: 722478 Samp	ole Description: MW-1	105D					License/V	Vell #: 4189/04	14 S	ampled	: 05/11/2016 1120
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analy Date/T	sis Aı ime	nalyst	Method
pH (Field)	7.16	S.U.	N/A	N/A	1			05/11/2016	00:00	SUB	FIELD
Temperature (Field)	12.41	Deg. C	N/A	N/A	1			05/11/2016	00:00	SUB	FIELD
Turbidity (Field)	cloudy		N/A	N/A	1			05/11/2016	00:00	SUB	FIELD
Inorganic Results											
Alkalinity Total	420	mg/L	5.0	18	1			05/12/2016	16:44	MER	EPA 310.2
Total Chloride	210	mg/L	7.0	24	10			05/18/2016	12:56	JJF	EPA 9056A
Total Sulfate	61	mg/L	5.0	18	10			05/18/2016	12:56	JJF	EPA 9056A
Total Organic Carbon	3.8	mg/L	0.50	1.7	1			05/23/2016	16:18	JJF	EPA 9060A
Metals Results											
Total Iron	3.68	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016	17:25	NAH	EPA 6010C
Total Manganese	55.4	ug/L	1.4	4.7	1		05/16/2016 10:00	05/16/2016	17:25	NAH	EPA 6010C
Organic Results											
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016	14:35	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016	14:35	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016	14:35	AMA	Mod RSK 175
Methane	92	ug/L	4.0	12	10		05/19/2016 08:30	05/19/2016	14:44	AMA	Mod RSK 175
Volatile Organic Compounds 8260 C	omments: Suspected	I methylene chlorid	le and acetone lab	oratory contar	mination.						
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.90	5			05/21/2016	13:53	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.30	ug/L	0.30	1.1	5			05/21/2016	13:53	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.10	ug/L	0.10	0.33	5			05/21/2016	13:53	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.85	5			05/21/2016	13:53	RLD	EPA 8260C

0.95

1.2

5

5

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

ug/L

ug/L

0.30

0.35 *

5.8

1.1

1,1-Dichloroethane

1,1-Dichloroethene

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
/olatile Organic Compounds 8260 Cor	mments: Suspected	methylene chloric	le and acetone labo	oratory contan	nination.				
1,1-Dichloropropene	<0.30	ug/L	0.30	0.95	5			05/21/2016 13:53 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.80	5			05/21/2016 13:53 RLD	EPA 8260C
1,2,3-Trichloropropane	<0.20	ug/L	0.20	0.65	5			05/21/2016 13:53 RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.20	ug/L	0.20	0.65	5			05/21/2016 13:53 RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.25	ug/L	0.25	0.85	5			05/21/2016 13:53 RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.15	ug/L	0.15	0.50	5			05/21/2016 13:53 RLD	EPA 8260C
1,2-Dibromoethane	<0.20	ug/L	0.20	0.70	5			05/21/2016 13:53 RLD	EPA 8260C
1,2-Dichlorobenzene	<0.30	ug/L	0.30	0.95	5			05/21/2016 13:53 RLD	EPA 8260C
1,2-Dichloroethane	<0.20	ug/L	0.20	0.70	5			05/21/2016 13:53 RLD	EPA 8260C
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	5			05/21/2016 13:53 RLD	EPA 8260C
,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.0	5			05/21/2016 13:53 RLD	EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.1	5			05/21/2016 13:53 RLD	EPA 8260C
1,3-Dichloropropane	<0.20	ug/L	0.20	0.65	5			05/21/2016 13:53 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.25	ug/L	0.25	0.80	5			05/21/2016 13:53 RLD	EPA 8260C
2,2-Dichloropropane	<0.20	ug/L	0.20	0.60	5			05/21/2016 13:53 RLD	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	5			05/21/2016 13:53 RLD	EPA 8260C
2-Chlorotoluene	<0.30	ug/L	0.30	0.95	5			05/21/2016 13:53 RLD	EPA 8260C
2-Hexanone	<2.0	ug/L	2.0	7.0	5			05/21/2016 13:53 RLD	EPA 8260C
4-Chlorotoluene	<0.25	ug/L	0.25	0.90	5			05/21/2016 13:53 RLD	EPA 8260C
I-Methyl-2-pentanone	<2.0	ug/L	2.0	7.0	5			05/21/2016 13:53 RLD	EPA 8260C
Acetone	110	ug/L	4.5	16	5	В		05/21/2016 13:53 RLD	EPA 8260C
Benzene	< 0.30	ug/L	0.30	0.90	5			05/21/2016 13:53 RLD	EPA 8260C
Bromobenzene	<0.20	ug/L	0.20	0.70	5			05/21/2016 13:53 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
Volatile Organic Compounds 8260 C	Comments: Suspected	methylene chlor	de and acetone lab	oratory contar	nination.					
Bromochloromethane	<0.085	ug/L	0.085	0.29	5			05/21/2016 13:53	RLD	EPA 8260C
Bromodichloromethane	<0.085	ug/L	0.085	0.29	5			05/21/2016 13:53	RLD	EPA 8260C
Bromoform	<0.090	ug/L	0.090	0.30	5			05/21/2016 13:53	RLD	EPA 8260C
Bromomethane	<0.45	ug/L	0.45	1.5	5			05/21/2016 13:53	RLD	EPA 8260C
Carbon disulfide	<0.55	ug/L	0.55	1.9	5			05/21/2016 13:53	RLD	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.0	5			05/21/2016 13:53	RLD	EPA 8260C
Chlorobenzene	<0.20	ug/L	0.20	0.70	5			05/21/2016 13:53	RLD	EPA 8260C
Chloroethane	<0.30	ug/L	0.30	1.1	5			05/21/2016 13:53	RLD	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.0	5			05/21/2016 13:53	RLD	EPA 8260C
Chloromethane	<0.25	ug/L	0.25	0.90	5			05/21/2016 13:53	RLD	EPA 8260C
cis-1,2-Dichloroethene	63	ug/L	0.30	1.1	5			05/21/2016 13:53	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.075	ug/L	0.075	0.25	5			05/21/2016 13:53	RLD	EPA 8260C
Dibromochloromethane	<0.080	ug/L	0.080	0.27	5			05/21/2016 13:53	RLD	EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	0.95	5			05/21/2016 13:53	RLD	EPA 8260C
Dichlorodifluoromethane	<0.30	ug/L	0.30	0.95	5			05/21/2016 13:53	RLD	EPA 8260C
Diisopropyl ether	<0.20	ug/L	0.20	0.75	5			05/21/2016 13:53	RLD	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	5			05/21/2016 13:53	RLD	EPA 8260C
Hexachlorobutadiene	<0.35	ug/L	0.35	1.2	5			05/21/2016 13:53	RLD	EPA 8260C
sopropylbenzene	<0.25	ug/L	0.25	0.85	5			05/21/2016 13:53	RLD	EPA 8260C
n & p-Xylene	<0.60	ug/L	0.60	2.0	5			05/21/2016 13:53	RLD	EPA 8260C
Methyl tert-butyl ether	0.24	ug/L	0.20 *	0.75	5			05/21/2016 13:53	RLD	EPA 8260C
Methylene chloride	9.6	ug/L	0.30	1.1	5			05/21/2016 13:53	RLD	EPA 8260C
n-Butylbenzene	<0.25	ug/L	0.25	0.85	5			05/21/2016 13:53	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
olatile Organic Compounds 8260 C	comments: Suspected	methylene chlorid	de and acetone labo	ratory contan	nination.					
n-Propylbenzene	<0.25	ug/L	0.25	0.80	5			05/21/2016 13:53	RLD	EPA 8260C
laphthalene	<0.25	ug/L	0.25	0.90	5			05/21/2016 13:53	RLD	EPA 8260C
-Xylene	<0.25	ug/L	0.25	0.80	5			05/21/2016 13:53	RLD	EPA 8260C
-Isopropyltoluene	<0.30	ug/L	0.30	1.1	5			05/21/2016 13:53	RLD	EPA 8260C
ec-Butylbenzene	<0.25	ug/L	0.25	0.90	5			05/21/2016 13:53	RLD	EPA 8260C
tyrene	<0.25	ug/L	0.25	0.75	5			05/21/2016 13:53	RLD	EPA 8260C
ert-Butylbenzene	<0.30	ug/L	0.30	0.95	5			05/21/2016 13:53	RLD	EPA 8260C
etrachloroethene	<0.30	ug/L	0.30	1.0	5			05/21/2016 13:53	RLD	EPA 8260C
etrahydrofuran	3.1	ug/L	3.0 *	11	5	Z,B		05/21/2016 13:53	RLD	EPA 8260C
oluene	<0.30	ug/L	0.30	1.1	5			05/21/2016 13:53	RLD	EPA 8260C
ans-1,2-Dichloroethene	1.6	ug/L	0.30	1.0	5			05/21/2016 13:53	RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.070	ug/L	0.070	0.24	5			05/21/2016 13:53	RLD	EPA 8260C
richloroethene	0.56	ug/L	0.15	0.50	5			05/21/2016 13:53	RLD	EPA 8260C
richlorofluoromethane	<0.25	ug/L	0.25	0.90	5			05/21/2016 13:53	RLD	EPA 8260C
inyl acetate	<2.5	ug/L	2.5	8.0	5			05/21/2016 13:53	RLD	EPA 8260C
'inyl chloride	1.7	ug/L	0.080	0.26	5			05/21/2016 13:53	RLD	EPA 8260C

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	t Method
Metals Results									
Dissolved Iron	1.81	mg/L	0.010	0.032	1			05/16/2016 13:18 NA	H EPA 6010C
Dissolved Manganese	53.3	ug/L	1.6	5.3	1			05/16/2016 13:18 NA	H EPA 6010C

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CT LAB Sample#: 722480 Sample Description: MW-105B License/Well #: 4189/045 Sampled: 05/11/2016 1	T LAB Sample#: 722480	#: 722480 Sample Description: MW-105B	License/Well #: 4189/045	Sampled: 05/11/2016 1150
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Field Results										
Dissolved Oxygen (Field)	0	mg/L	N/A	N/A	1			05/11/2016 00:00	SUB	
OX/REDOX (Field)	-9	MV	N/A	N/A	1			05/11/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
Conductivity (Field)	764	umhos/cm	N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
oH (Field)	7.57	S.U.	N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
Temperature (Field)	18.52	Deg. C	N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
Furbidity (Field)	clear		N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
norganic Results										
Ikalinity Total	390	mg/L	5.0	18	1			05/12/2016 16:45	MER	EPA 310.2
otal Chloride	84	mg/L	3.5	12	5			05/18/2016 19:29	JJF	EPA 9056A
Total Sulfate	0.73	mg/L	0.50 *	1.8	1			05/18/2016 13:15	JJF	EPA 9056A
otal Organic Carbon	1.9	mg/L	0.50	1.7	1			05/23/2016 16:30	JJF	EPA 9060A
letals Results										
otal Iron	0.389	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 17:31	NAH	EPA 6010C
otal Manganese	372	ug/L	1.4	4.7	1		05/16/2016 10:00	05/16/2016 17:31	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 14:53	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 14:53	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 14:53	AMA	Mod RSK 175
Methane	470	ug/L	20	60	50		05/19/2016 08:30	05/19/2016 15:02	AMA	Mod RSK 175
,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:37	RLD	EPA 8260C
,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:37	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/19/2016 21:37 RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/19/2016 21:37 RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:37 RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/19/2016 21:37 RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:37 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 21:37 RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 21:37 RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/19/2016 21:37 RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 21:37 RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/19/2016 21:37 RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 21:37 RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:37 RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 21:37 RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:37 RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:37 RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:37 RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 21:37 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 21:37 RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/19/2016 21:37 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/19/2016 21:37 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:37 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 21:37 RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:37 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 21:37 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/19/2016 21:37 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Benzene	<0.060	ug/L	0.060	0.18	1			05/19/2016 21:37 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 21:37 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 21:37 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 21:37 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/19/2016 21:37 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/19/2016 21:37 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/19/2016 21:37 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:37 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 21:37 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:37 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:37 RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:37 RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:37 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/19/2016 21:37 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/19/2016 21:37 RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:37 RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:37 RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 21:37 RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:37 RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/19/2016 21:37 RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 21:37 RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/19/2016 21:37 RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 21:37 RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:37 RLD	EPA 8260C
n-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			05/19/2016 21:37 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1		Dato/ I IIII	05/19/2016 21:37 RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:37 RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			05/19/2016 21:37 RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:37 RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:37 RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			05/19/2016 21:37 RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 21:37 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:37 RLD	EPA 8260C
Tetrahydrofuran	0.67	ug/L	0.60 *	2.1	1	B,Z		05/19/2016 21:37 RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 21:37 RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 21:37 RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/19/2016 21:37 RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			05/19/2016 21:37 RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 21:37 RLD	EPA 8260C
/inyl acetate	<0.50	ug/L	0.50	1.6	1			05/19/2016 21:37 RLD	EPA 8260C
/inyl chloride	<0.016	ug/L	0.016	0.052	1			05/19/2016 21:37 RLD	EPA 8260C

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time	
Metals Results									
Dissolved Iron	0.247	mg/L	0.010	0.032	1			05/16/2016 13:43 NAH EPA 6010C	
Dissolved Manganese	225	ug/L	1.6	5.3	1			05/16/2016 13:43 NAH EPA 6010C	

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CT LAB Sample#: 722482 Sample Description: MW-9S License/Well #: 4189/014 Sampled: 05/11/2016 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Field Results										
Dissolved Oxygen (Field)	0	mg/L	N/A	N/A	1			05/11/2016 00:00	SUB	
OX/REDOX (Field)	-35	MV	N/A	N/A	1			05/11/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
Conductivity (Field)	1490	umhos/cm	N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
oH (Field)	7.10	S.U.	N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
emperature (Field)	15.13	Deg. C	N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
urbidity (Field)	clear		N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
norganic Results										
Ikalinity Total	350	mg/L	5.0	18	1			05/12/2016 16:46	MER	EPA 310.2
otal Chloride	310	mg/L	7.0	24	10			05/18/2016 14:11	JJF	EPA 9056A
otal Sulfate	59	mg/L	5.0	18	10			05/18/2016 14:11	JJF	EPA 9056A
otal Organic Carbon	2.8	mg/L	0.50	1.7	1			05/23/2016 16:41	JJF	EPA 9060A
letals Results										
otal Iron	2.94	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 17:56	NAH	EPA 6010C
otal Manganese	73.5	ug/L	1.4	4.7	1		05/16/2016 10:00	05/16/2016 17:56	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 16:15	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 16:15	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 16:15	AMA	Mod RSK 175
1ethane	21	ug/L	0.80	2.4	2		05/19/2016 08:30	05/19/2016 16:24	AMA	Mod RSK 175
,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/21/2016 13:25	RLD	EPA 8260C
,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/21/2016 13:25	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	alyst	Method
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/21/2016 13:25	RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			05/21/2016 13:25	RLD	EPA 8260C
1,1-Dichloroethane	0.16	ug/L	0.060 *	0.19	1			05/21/2016 13:25	RLD	EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			05/21/2016 13:25	RLD	EPA 8260C
1,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			05/21/2016 13:25	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/21/2016 13:25	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/21/2016 13:25	RLD	EPA 8260C
1,2,4-Trichlorobenzene	< 0.040	ug/L	0.040	0.13	1			05/21/2016 13:25	RLD	EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			05/21/2016 13:25	RLD	EPA 8260C
,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			05/21/2016 13:25	RLD	EPA 8260C
,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/21/2016 13:25	RLD	EPA 8260C
,2-Dichlorobenzene	< 0.060	ug/L	0.060	0.19	1			05/21/2016 13:25	RLD	EPA 8260C
,2-Dichloroethane	< 0.040	ug/L	0.040	0.14	1			05/21/2016 13:25	RLD	EPA 8260C
,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			05/21/2016 13:25	RLD	EPA 8260C
1,3,5-Trimethylbenzene	< 0.060	ug/L	0.060	0.20	1			05/21/2016 13:25	RLD	EPA 8260C
1,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			05/21/2016 13:25	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/21/2016 13:25	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/21/2016 13:25	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/21/2016 13:25	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/21/2016 13:25	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/21/2016 13:25	RLD	EPA 8260C
-Hexanone	<0.40	ug/L	0.40	1.4	1			05/21/2016 13:25	RLD	EPA 8260C
-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/21/2016 13:25	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/21/2016 13:25	RLD	EPA 8260C
Acetone	< 0.90	ug/L	0.90	3.1	1			05/21/2016 13:25	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Benzene	<0.060	ug/L	0.060	0.18	1			05/21/2016 13:25	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/21/2016 13:25	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/21/2016 13:25	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/21/2016 13:25	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/21/2016 13:25	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/21/2016 13:25	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/21/2016 13:25	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/21/2016 13:25	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/21/2016 13:25	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/21/2016 13:25	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/21/2016 13:25	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/21/2016 13:25	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/21/2016 13:25	RLD	EPA 8260C
sis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/21/2016 13:25	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/21/2016 13:25	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/21/2016 13:25	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/21/2016 13:25	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/21/2016 13:25	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/21/2016 13:25	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/21/2016 13:25	RLD	EPA 8260C
sopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/21/2016 13:25	RLD	EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/21/2016 13:25	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/21/2016 13:25	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/21/2016 13:25	RLD	EPA 8260C
n-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			05/21/2016 13:25	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis <i>A</i> Date/Time	nalyst	Method
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/21/2016 13:25	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/21/2016 13:25	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			05/21/2016 13:25	RLD	EPA 8260C
o-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/21/2016 13:25	RLD	EPA 8260C
ec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/21/2016 13:25	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			05/21/2016 13:25	RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/21/2016 13:25	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/21/2016 13:25	RLD	EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/21/2016 13:25	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/21/2016 13:25	RLD	EPA 8260C
rans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/21/2016 13:25	RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/21/2016 13:25	RLD	EPA 8260C
richloroethene	0.18	ug/L	0.030	0.10	1			05/21/2016 13:25	RLD	EPA 8260C
Frichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/21/2016 13:25	RLD	EPA 8260C
/inyl acetate	<0.50	ug/L	0.50	1.6	1			05/21/2016 13:25	RLD	EPA 8260C
/inyl chloride	<0.016	ug/L	0.016	0.052	1			05/21/2016 13:25	RLD	EPA 8260C

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	0.877	mg/L	0.010	0.032	1			05/16/2016 13:5	0 NAH	EPA 6010C
Dissolved Manganese	70.6	ug/L	1.6	5.3	1			05/16/2016 13:5	0 NAH	EPA 6010C

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CT LAB Sample#: 722484 Sample Description: MW-5D License/Well #: 4189/010 Sampled: 05/11/2016 1425

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Field Results										
Dissolved Oxygen (Field)	0.01	mg/L	N/A	N/A	1			05/11/2016 00:00	SUB	
OX/REDOX (Field)	-40	MV	N/A	N/A	1			05/11/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
Conductivity (Field)	1090	umhos/cm	N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
pH (Field)	7.13	S.U.	N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
Temperature (Field)	13.76	Deg. C	N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/11/2016 00:00	SUB	FIELD
Inorganic Results										
Alkalinity Total	400	mg/L	5.0	18	1			05/12/2016 16:49	MER	EPA 310.2
Total Chloride	150	mg/L	3.5	12	5			05/18/2016 14:29	JJF	EPA 9056A
Total Sulfate	52	mg/L	2.5	9.0	5			05/18/2016 14:29	JJF	EPA 9056A
Total Organic Carbon	2.6	mg/L	0.50	1.7	1			05/23/2016 16:52	JJF	EPA 9060A
Metals Results										
Total Iron	2.05	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 18:03	NAH	EPA 6010C
Total Manganese	116	ug/L	1.4	4.7	1		05/16/2016 10:00	05/16/2016 18:03	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 16:33	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 16:33	AMA	Mod RSK 175
Ethene	0.55	ug/L	0.50 *	1.8	1		05/19/2016 08:30	05/19/2016 16:33	AMA	Mod RSK 175
Methane	44	ug/L	2.0	6.0	5		05/19/2016 08:30	05/19/2016 16:42	AMA	Mod RSK 175

Volatile Organic Compounds 8260 Comments: Suspected methylene chloride and acetone laboratory contamination.

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CT LAB Sample#: 722484 Sample Description: MW-5D License/Well #: 4189/010 Sampled: 05/11/2016 1425

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
Volatile Organic Compounds 8260 Co	mments: Suspected	methylene chlorid	e and acetone labo	oratory contar	mination.				
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:18 RI	D EPA 8260C
1,1,1-Trichloroethane	< 0.30	ug/L	0.30	1.1	5			05/21/2016 15:18 RI	D EPA 8260C
1,1,2,2-Tetrachloroethane	<0.10	ug/L	0.10	0.33	5			05/21/2016 15:18 RI	D EPA 8260C
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.85	5			05/21/2016 15:18 RI	D EPA 8260C
1,1-Dichloroethane	7.6	ug/L	0.30	0.95	5			05/21/2016 15:18 RI	D EPA 8260C
1,1-Dichloroethene	0.74	ug/L	0.35 *	1.2	5			05/21/2016 15:18 RI	D EPA 8260C
1,1-Dichloropropene	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:18 RI	D EPA 8260C
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.80	5			05/21/2016 15:18 RI	D EPA 8260C
1,2,3-Trichloropropane	<0.20	ug/L	0.20	0.65	5			05/21/2016 15:18 RI	D EPA 8260C
1,2,4-Trichlorobenzene	<0.20	ug/L	0.20	0.65	5			05/21/2016 15:18 RI	D EPA 8260C
1,2,4-Trimethylbenzene	<0.25	ug/L	0.25	0.85	5			05/21/2016 15:18 RI	D EPA 8260C
1,2-Dibromo-3-chloropropane	<0.15	ug/L	0.15	0.50	5			05/21/2016 15:18 RI	D EPA 8260C
1,2-Dibromoethane	<0.20	ug/L	0.20	0.70	5			05/21/2016 15:18 RI	D EPA 8260C
1,2-Dichlorobenzene	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:18 RI	D EPA 8260C
1,2-Dichloroethane	0.53	ug/L	0.20 *	0.70	5			05/21/2016 15:18 RI	D EPA 8260C
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	5			05/21/2016 15:18 RI	D EPA 8260C
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.0	5			05/21/2016 15:18 RI	D EPA 8260C
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.1	5			05/21/2016 15:18 RI	D EPA 8260C
1,3-Dichloropropane	<0.20	ug/L	0.20	0.65	5			05/21/2016 15:18 RI	D EPA 8260C
1,4-Dichlorobenzene	<0.25	ug/L	0.25	0.80	5			05/21/2016 15:18 RI	D EPA 8260C
2,2-Dichloropropane	<0.20	ug/L	0.20	0.60	5			05/21/2016 15:18 RI	D EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	5			05/21/2016 15:18 RI	D EPA 8260C
2-Chlorotoluene	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:18 RI	D EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
/olatile Organic Compounds 8260 C	Comments: Suspected	methylene chlori	de and acetone lab	oratory contan	nination.				
2-Hexanone	<2.0	ug/L	2.0	7.0	5			05/21/2016 15:18 RLD	EPA 8260C
4-Chlorotoluene	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:18 RLD	EPA 8260C
4-Methyl-2-pentanone	<2.0	ug/L	2.0	7.0	5			05/21/2016 15:18 RLD	EPA 8260C
Acetone	98	ug/L	4.5	16	5	В		05/21/2016 15:18 RLD	EPA 8260C
Benzene	<0.30	ug/L	0.30	0.90	5			05/21/2016 15:18 RLD	EPA 8260C
Bromobenzene	<0.20	ug/L	0.20	0.70	5			05/21/2016 15:18 RLD	EPA 8260C
Bromochloromethane	<0.085	ug/L	0.085	0.29	5			05/21/2016 15:18 RLD	EPA 8260C
Bromodichloromethane	<0.085	ug/L	0.085	0.29	5			05/21/2016 15:18 RLD	EPA 8260C
Bromoform	<0.090	ug/L	0.090	0.30	5			05/21/2016 15:18 RLD	EPA 8260C
Bromomethane	<0.45	ug/L	0.45	1.5	5			05/21/2016 15:18 RLD	EPA 8260C
Carbon disulfide	<0.55	ug/L	0.55	1.9	5			05/21/2016 15:18 RLD	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.0	5			05/21/2016 15:18 RLD	EPA 8260C
Chlorobenzene	<0.20	ug/L	0.20	0.70	5			05/21/2016 15:18 RLD	EPA 8260C
Chloroethane	<0.30	ug/L	0.30	1.1	5			05/21/2016 15:18 RLD	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.0	5			05/21/2016 15:18 RLD	EPA 8260C
Chloromethane	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:18 RLD	EPA 8260C
cis-1,2-Dichloroethene	76	ug/L	0.30	1.1	5			05/21/2016 15:18 RLD	EPA 8260C
sis-1,3-Dichloropropene	<0.075	ug/L	0.075	0.25	5			05/21/2016 15:18 RLD	EPA 8260C
Dibromochloromethane	<0.080	ug/L	0.080	0.27	5			05/21/2016 15:18 RLD	EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:18 RLD	EPA 8260C
Dichlorodifluoromethane	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:18 RLD	EPA 8260C
Diisopropyl ether	<0.20	ug/L	0.20	0.75	5			05/21/2016 15:18 RLD	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	5			05/21/2016 15:18 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Volatile Organic Compounds 8260 C	comments: Suspected	I methylene chlorid	de and acetone labo	oratory contan	nination.				
Hexachlorobutadiene	<0.35	ug/L	0.35	1.2	5			05/21/2016 15:18 RLD	EPA 8260C
sopropylbenzene	<0.25	ug/L	0.25	0.85	5			05/21/2016 15:18 RLD	EPA 8260C
m & p-Xylene	<0.60	ug/L	0.60	2.0	5			05/21/2016 15:18 RLD	EPA 8260C
Methyl tert-butyl ether	0.27	ug/L	0.20 *	0.75	5			05/21/2016 15:18 RLD	EPA 8260C
Methylene chloride	1.5	ug/L	0.30	1.1	5			05/21/2016 15:18 RLD	EPA 8260C
n-Butylbenzene	<0.25	ug/L	0.25	0.85	5			05/21/2016 15:18 RLD	EPA 8260C
n-Propylbenzene	<0.25	ug/L	0.25	0.80	5			05/21/2016 15:18 RLD	EPA 8260C
laphthalene	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:18 RLD	EPA 8260C
-Xylene	<0.25	ug/L	0.25	0.80	5			05/21/2016 15:18 RLD	EPA 8260C
-Isopropyltoluene	<0.30	ug/L	0.30	1.1	5			05/21/2016 15:18 RLD	EPA 8260C
ec-Butylbenzene	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:18 RLD	EPA 8260C
styrene	<0.25	ug/L	0.25	0.75	5			05/21/2016 15:18 RLD	EPA 8260C
ert-Butylbenzene	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:18 RLD	EPA 8260C
Tetrachloroethene	<0.30	ug/L	0.30	1.0	5			05/21/2016 15:18 RLD	EPA 8260C
etrahydrofuran	<3.0	ug/L	3.0	11	5			05/21/2016 15:18 RLD	EPA 8260C
oluene	<0.30	ug/L	0.30	1.1	5			05/21/2016 15:18 RLD	EPA 8260C
ans-1,2-Dichloroethene	9.4	ug/L	0.30	1.0	5			05/21/2016 15:18 RLD	EPA 8260C
ans-1,3-Dichloropropene	< 0.070	ug/L	0.070	0.24	5			05/21/2016 15:18 RLD	EPA 8260C
richloroethene	54	ug/L	0.15	0.50	5			05/21/2016 15:18 RLD	EPA 8260C
richlorofluoromethane	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:18 RLD	EPA 8260C
inyl acetate	<2.5	ug/L	2.5	8.0	5			05/21/2016 15:18 RLD	EPA 8260C
inyl chloride	4.7	ug/L	0.080	0.26	5			05/21/2016 15:18 RLD	EPA 8260C

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05/16/2016 10:00 05/16/2016 18:10 NAH EPA 6010C

CT LAB Sample#: 722485 Sam	ple Description: MW-5	5D					License/\	Vell #: 4189/010	Sampled	: 05/11/2016 142
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	0.865	mg/L	0.010	0.032	1			05/16/2016 13:5	7 NAH	EPA 6010C
Dissolved Manganese	116	ug/L	1.6	5.3	1			05/16/2016 13:5	7 NAH	EPA 6010C
CT LAB Sample#: 722486 Sam	ple Description: MW-1	12D					License/\	Vell #: 4189/021	Sampled	: 05/11/2016 152
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0	mg/L	N/A	N/A	1			05/11/2016 00:0	SUB	
OX/REDOX (Field)	49	MV	N/A	N/A	1			05/11/2016 00:0	SUB	
Color (Field)	clear		N/A	N/A	1			05/11/2016 00:0	SUB	FIELD
Conductivity (Field)	1190	umhos/cm	N/A	N/A	1			05/11/2016 00:0	SUB	FIELD
pH (Field)	7.26	S.U.	N/A	N/A	1			05/11/2016 00:0	SUB	FIELD
Temperature (Field)	16.52	Deg. C	N/A	N/A	1			05/11/2016 00:0	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/11/2016 00:0	SUB	FIELD
Inorganic Results										
Alkalinity Total	400	mg/L	5.0	18	1			05/12/2016 16:5) MER	EPA 310.2
Total Chloride	220	mg/L	7.0	24	10			05/18/2016 14:4	3 JJF	EPA 9056A
Total Sulfate	58	mg/L	5.0	18	10			05/18/2016 14:4	3 JJF	EPA 9056A
Total Organic Carbon	3.0	mg/L	0.50	1.7	1			05/23/2016 17:0	6 JJF	EPA 9060A
Metals Results										
Total Iron	0.906	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 18:1	NAH	EPA 6010C

4.7

1.4

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

ug/L

29.5

Total Manganese

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	alyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 16:51	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 16:51	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 16:51	AMA	Mod RSK 175
Methane	32	ug/L	0.80	2.4	2		05/19/2016 08:30	05/19/2016 17:00	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 22:35	RLD	EPA 8260C
1,1,1-Trichloroethane	0.33	ug/L	0.060	0.21	1			05/19/2016 22:35	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/19/2016 22:35	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/19/2016 22:35	RLD	EPA 8260C
1,1-Dichloroethane	5.8	ug/L	0.060	0.19	1			05/19/2016 22:35	RLD	EPA 8260C
1,1-Dichloroethene	0.18	ug/L	0.070 *	0.23	1			05/19/2016 22:35	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/19/2016 22:35	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 22:35	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 22:35	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/19/2016 22:35	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 22:35	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/19/2016 22:35	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 22:35	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 22:35	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 22:35	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/19/2016 22:35	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/19/2016 22:35	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 22:35	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 22:35	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 22:35	RLD	EPA 8260C

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2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/19/2016 22:35	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/19/2016 22:35	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/19/2016 22:35	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 22:35	RLD	EPA 8260C
I-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/19/2016 22:35	RLD	EPA 8260C
-Methyl-2-pentanone	< 0.40	ug/L	0.40	1.4	1			05/19/2016 22:35	RLD	EPA 8260C
cetone	<0.90	ug/L	0.90	3.1	1			05/19/2016 22:35	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/19/2016 22:35	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 22:35	RLD	EPA 8260C
romochloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 22:35	RLD	EPA 8260C
romodichloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 22:35	RLD	EPA 8260C
romoform	<0.018	ug/L	0.018	0.060	1			05/19/2016 22:35	RLD	EPA 8260C
romomethane	<0.090	ug/L	0.090	0.29	1			05/19/2016 22:35	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/19/2016 22:35	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/19/2016 22:35	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 22:35	RLD	EPA 8260C
Chloroethane	0.53	ug/L	0.060	0.21	1			05/19/2016 22:35	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/19/2016 22:35	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 22:35	RLD	EPA 8260C
is-1,2-Dichloroethene	5.4	ug/L	0.060	0.21	1			05/19/2016 22:35	RLD	EPA 8260C
is-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/19/2016 22:35	RLD	EPA 8260C
ibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/19/2016 22:35	RLD	EPA 8260C
ibromomethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 22:35	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 22:35	RLD	EPA 8260C
iisopropyl ether	< 0.040	ug/L	0.040	0.15	1			05/19/2016 22:35	RLD	EPA 8260C

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Ethylbenzene	< 0.060	ug/L	0.060	0.21	1			05/19/2016 22:35 RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/19/2016 22:35 RLD	EPA 8260C
Isopropylbenzene	< 0.050	ug/L	0.050	0.17	1			05/19/2016 22:35 RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/19/2016 22:35 RLD	EPA 8260C
Methyl tert-butyl ether	0.59	ug/L	0.040	0.15	1			05/19/2016 22:35 RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/19/2016 22:35 RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 22:35 RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 22:35 RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/19/2016 22:35 RLD	EPA 8260C
p-Xylene	<0.050	ug/L	0.050	0.16	1			05/19/2016 22:35 RLD	EPA 8260C
o-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 22:35 RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/19/2016 22:35 RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			05/19/2016 22:35 RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 22:35 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 22:35 RLD	EPA 8260C
Tetrahydrofuran	0.68	ug/L	0.60 *	2.1	1	B,Z		05/19/2016 22:35 RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 22:35 RLD	EPA 8260C
rans-1,2-Dichloroethene	0.50	ug/L	0.060	0.20	1			05/19/2016 22:35 RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/19/2016 22:35 RLD	EPA 8260C
Trichloroethene	0.10	ug/L	0.030	0.10	1			05/19/2016 22:35 RLD	EPA 8260C
Frichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 22:35 RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			05/19/2016 22:35 RLD	EPA 8260C
Vinyl chloride	0.80	ug/L	0.016	0.052	1			05/19/2016 22:35 RLD	EPA 8260C

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CT LAB Sample#: 722487 Sam	ple Description: MW-1	2D					License/\	Well #: 4189/021	Sampled	l: 05/11/2016 1520
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	0.873	mg/L	0.010	0.032	1			05/16/2016 14:0	3 NAH	EPA 6010C
Dissolved Manganese	29.1	ug/L	1.6	5.3	1			05/16/2016 14:0	3 NAH	EPA 6010C
CT LAB Sample#: 722488 Sam	ple Description: MW-1	12S					License/\	Well #: 4189/020	Sampled	d: 05/11/2016 1600
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0	mg/L	N/A	N/A	1			05/11/2016 00:0	00 SUB	
OX/REDOX (Field)	30	MV	N/A	N/A	1			05/11/2016 00:0	00 SUB	
Color (Field)	cloudy		N/A	N/A	1			05/11/2016 00:0	00 SUB	FIELD
Conductivity (Field)	1230	umhos/cm	N/A	N/A	1			05/11/2016 00:0	00 SUB	FIELD
pH (Field)	7.14	S.U.	N/A	N/A	1			05/11/2016 00:0	00 SUB	FIELD
Temperature (Field)	12.03	Deg. C	N/A	N/A	1			05/11/2016 00:0	00 SUB	FIELD
Turbidity (Field)	cloudy		N/A	N/A	1			05/11/2016 00:0	00 SUB	FIELD
Inorganic Results										
Alkalinity Total	380	mg/L	5.0	18	1			05/12/2016 16:5	51 MER	EPA 310.2
Total Chloride	220	mg/L	7.0	24	10			05/18/2016 15:0	7 JJF	EPA 9056A
Total Sulfate	59	mg/L	5.0	18	10			05/18/2016 15:0	7 JJF	EPA 9056A
Total Organic Carbon	3.2	mg/L	0.50	1.7	1			05/23/2016 17:	19 JJF	EPA 9060A
Metals Results										
Total Iron	0.172	mg/L	0.020	0.065	1		05/16/2016 10:00	05/16/2016 18:	16 NAH	EPA 6010C
Total Manganese	117	ug/L	1.4	4.7	1		05/16/2016 10:00	05/16/2016 18:	I6 NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	llyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 17:10	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 17:10	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 17:10	AMA	Mod RSK 175
Methane	18	ug/L	0.80	2.4	2		05/19/2016 08:30	05/19/2016 17:19	AMA	Mod RSK 175
Volatile Organic Compounds 8260 Con	mments: Suspected	I methylene chlorid	e and acetone lab	oratory contar	mination.					
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:47	RLD	EPA 8260C
1,1,1-Trichloroethane	29	ug/L	0.30	1.1	5			05/21/2016 15:47	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.10	ug/L	0.10	0.33	5			05/21/2016 15:47	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.85	5			05/21/2016 15:47	RLD	EPA 8260C
1,1-Dichloroethane	12	ug/L	0.30	0.95	5			05/21/2016 15:47	RLD	EPA 8260C
1,1-Dichloroethene	4.4	ug/L	0.35	1.2	5			05/21/2016 15:47	RLD	EPA 8260C
1,1-Dichloropropene	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:47	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.80	5			05/21/2016 15:47	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.20	ug/L	0.20	0.65	5			05/21/2016 15:47	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.20	ug/L	0.20	0.65	5			05/21/2016 15:47	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.25	ug/L	0.25	0.85	5			05/21/2016 15:47	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.15	ug/L	0.15	0.50	5			05/21/2016 15:47	RLD	EPA 8260C
1,2-Dibromoethane	<0.20	ug/L	0.20	0.70	5			05/21/2016 15:47	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:47	RLD	EPA 8260C
1,2-Dichloroethane	<0.20	ug/L	0.20	0.70	5			05/21/2016 15:47	RLD	EPA 8260C
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	5			05/21/2016 15:47	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.0	5			05/21/2016 15:47	RLD	EPA 8260C
1,3-Dichlorobenzene	< 0.30	ug/L	0.30	1.1	5			05/21/2016 15:47	RLD	EPA 8260C

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/olatile Organic Compounds 8260 (Comments: Suspected	methylene chlori	de and acetone lab	oratory contan	nination.				
,3-Dichloropropane	<0.20	ug/L	0.20	0.65	5			05/21/2016 15:47 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.25	ug/L	0.25	0.80	5			05/21/2016 15:47 RLD	EPA 8260C
2,2-Dichloropropane	<0.20	ug/L	0.20	0.60	5			05/21/2016 15:47 RLD	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	5			05/21/2016 15:47 RLD	EPA 8260C
2-Chlorotoluene	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:47 RLD	EPA 8260C
2-Hexanone	<2.0	ug/L	2.0	7.0	5			05/21/2016 15:47 RLD	EPA 8260C
-Chlorotoluene	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:47 RLD	EPA 8260C
-Methyl-2-pentanone	<2.0	ug/L	2.0	7.0	5			05/21/2016 15:47 RLD	EPA 8260C
cetone	100	ug/L	4.5	16	5	В		05/21/2016 15:47 RLD	EPA 8260C
Benzene	<0.30	ug/L	0.30	0.90	5			05/21/2016 15:47 RLD	EPA 8260C
Bromobenzene	<0.20	ug/L	0.20	0.70	5			05/21/2016 15:47 RLD	EPA 8260C
Bromochloromethane	<0.085	ug/L	0.085	0.29	5			05/21/2016 15:47 RLD	EPA 8260C
Bromodichloromethane	<0.085	ug/L	0.085	0.29	5			05/21/2016 15:47 RLD	EPA 8260C
Bromoform	<0.090	ug/L	0.090	0.30	5			05/21/2016 15:47 RLD	EPA 8260C
Bromomethane	<0.45	ug/L	0.45	1.5	5			05/21/2016 15:47 RLD	EPA 8260C
Carbon disulfide	<0.55	ug/L	0.55	1.9	5			05/21/2016 15:47 RLD	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.0	5			05/21/2016 15:47 RLD	EPA 8260C
Chlorobenzene	<0.20	ug/L	0.20	0.70	5			05/21/2016 15:47 RLD	EPA 8260C
Chloroethane	<0.30	ug/L	0.30	1.1	5			05/21/2016 15:47 RLD	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.0	5			05/21/2016 15:47 RLD	EPA 8260C
Chloromethane	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:47 RLD	EPA 8260C
cis-1,2-Dichloroethene	22	ug/L	0.30	1.1	5			05/21/2016 15:47 RLD	EPA 8260C
sis-1,3-Dichloropropene	< 0.075	ug/L	0.075	0.25	5			05/21/2016 15:47 RLD	EPA 8260C

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olatile Organic Compounds 8260 Co	omments: Suspected	I methylene chlori	de and acetone lab	oratory contan	nination.				
Dibromochloromethane	<0.080	ug/L	0.080	0.27	5			05/21/2016 15:47 RL	D EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:47 RL	D EPA 8260C
Dichlorodifluoromethane	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:47 RL	D EPA 8260C
Diisopropyl ether	<0.20	ug/L	0.20	0.75	5			05/21/2016 15:47 RL	D EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	5			05/21/2016 15:47 RL	D EPA 8260C
Hexachlorobutadiene	<0.35	ug/L	0.35	1.2	5			05/21/2016 15:47 RL	D EPA 8260C
sopropylbenzene	<0.25	ug/L	0.25	0.85	5			05/21/2016 15:47 RL	D EPA 8260C
n & p-Xylene	<0.60	ug/L	0.60	2.0	5			05/21/2016 15:47 RL	D EPA 8260C
Methyl tert-butyl ether	<0.20	ug/L	0.20	0.75	5			05/21/2016 15:47 RL	D EPA 8260C
Methylene chloride	1.4	ug/L	0.30	1.1	5			05/21/2016 15:47 RL	D EPA 8260C
n-Butylbenzene	<0.25	ug/L	0.25	0.85	5			05/21/2016 15:47 RL	D EPA 8260C
n-Propylbenzene	<0.25	ug/L	0.25	0.80	5			05/21/2016 15:47 RL	D EPA 8260C
Naphthalene	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:47 RL	D EPA 8260C
o-Xylene	<0.25	ug/L	0.25	0.80	5			05/21/2016 15:47 RL	D EPA 8260C
o-Isopropyltoluene	<0.30	ug/L	0.30	1.1	5			05/21/2016 15:47 RL	D EPA 8260C
sec-Butylbenzene	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:47 RL	D EPA 8260C
Styrene	<0.25	ug/L	0.25	0.75	5			05/21/2016 15:47 RL	D EPA 8260C
ert-Butylbenzene	<0.30	ug/L	0.30	0.95	5			05/21/2016 15:47 RL	D EPA 8260C
Tetrachloroethene	<0.30	ug/L	0.30	1.0	5			05/21/2016 15:47 RL	D EPA 8260C
etrahydrofuran	<3.0	ug/L	3.0	11	5			05/21/2016 15:47 RL	D EPA 8260C
oluene	<0.30	ug/L	0.30	1.1	5			05/21/2016 15:47 RL	D EPA 8260C
ans-1,2-Dichloroethene	6.8	ug/L	0.30	1.0	5			05/21/2016 15:47 RL	D EPA 8260C
rans-1,3-Dichloropropene	< 0.070	ug/L	0.070	0.24	5			05/21/2016 15:47 RL	D EPA 8260C

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CT LAB Sample#: 722488 Sample Description: MW-12S License/Well #: 4189/020 Sampled: 05/11/2016 1600

T LAB Sample#: 722488 Sample Description: MW-125								License/weii #: 4189/020 Sampled: 05/11/2016 16				
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method		
Volatile Organic Compounds 8260 (Comments: Suspected	d methylene chloride	and acetone labor	oratory contar	nination.							
Trichloroethene	48	ug/L	0.15	0.50	5			05/21/2016 15:4	47 RLD	EPA 8260C		
Trichlorofluoromethane	<0.25	ug/L	0.25	0.90	5			05/21/2016 15:4	47 RLD	EPA 8260C		
Vinyl acetate	<2.5	ug/L	2.5	8.0	5			05/21/2016 15:4	47 RLD	EPA 8260C		
Vinyl chloride	0.79	ug/L	0.080	0.26	5			05/21/2016 15:4	47 RLD	EPA 8260C		
CT LAB Sample#: 722490 Sam	ple Description: MW-1	12B					License/	Well #: 4189/022	Sampled	l: 05/11/2016 163		
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method		
Field Results												
Dissolved Oxygen (Field)	0.93	mg/L	N/A	N/A	1			05/11/2016 00:0	00 SUB			
OX/REDOX (Field)	163	MV	N/A	N/A	1			05/11/2016 00:0	00 SUB			
Color (Field)	clear		N/A	N/A	1			05/11/2016 00:0	00 SUB	FIELD		
Conductivity (Field)	910	umhos/cm	N/A	N/A	1			05/11/2016 00:0	00 SUB	FIELD		
pH (Field)	8.39	S.U.	N/A	N/A	1			05/11/2016 00:0	00 SUB	FIELD		
Temperature (Field)	12.46	Deg. C	N/A	N/A	1			05/11/2016 00:0	00 SUB	FIELD		
Turbidity (Field)	clear		N/A	N/A	1			05/11/2016 00:0	00 SUB	FIELD		
Inorganic Results												
Alkalinity Total	310	mg/L	5.0	18	1			05/12/2016 16:5	52 MER	EPA 310.2		
Total Chloride	140	mg/L	3.5	12	5			05/18/2016 15:2	26 JJF	EPA 9056A		
Total Sulfate	30	mg/L	2.5	9.0	5			05/18/2016 15:2	26 JJF	EPA 9056A		
Total Organic Carbon	0.75	mg/L	0.50 *	1.7	1			05/23/2016 17:3	31 JJF	EPA 9060A		

Metals Results

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OT EAD Cample #: 722430 Cample Description: WW-12D	CT LAB Sample#: 722490	Sample Description: MW-12B	License/Well #: 4189/022	Sampled: 05/11/2016 1630
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	lyst	Method
Total Iron	<0.020	mg/L	0.020	0.065	1		05/16/2016 10:00	05/17/2016 14:19	NAH	EPA 6010C
Total Manganese	1.4	ug/L	1.4 *	4.7	1		05/16/2016 10:00	05/17/2016 14:19	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 17:28	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 17:28	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 17:28	AMA	Mod RSK 175
Methane	3.0	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 17:28	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 23:03	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 23:03	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/19/2016 23:03	RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			05/19/2016 23:03	RLD	EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			05/19/2016 23:03	RLD	EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			05/19/2016 23:03	RLD	EPA 8260C
1,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			05/19/2016 23:03	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/19/2016 23:03	RLD	EPA 8260C
1,2,3-Trichloropropane	< 0.040	ug/L	0.040	0.13	1			05/19/2016 23:03	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/19/2016 23:03	RLD	EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			05/19/2016 23:03	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/19/2016 23:03	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 23:03	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 23:03	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 23:03	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/19/2016 23:03	RLD	EPA 8260C
1,3,5-Trimethylbenzene	< 0.060	ug/L	0.060	0.20	1			05/19/2016 23:03	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analysi Date/Time	Method
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 23:03 RLI	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 23:03 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 23:03 RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/19/2016 23:03 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/19/2016 23:03 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/19/2016 23:03 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 23:03 RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/19/2016 23:03 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 23:03 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/19/2016 23:03 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/19/2016 23:03 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 23:03 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 23:03 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 23:03 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/19/2016 23:03 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/19/2016 23:03 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/19/2016 23:03 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/19/2016 23:03 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 23:03 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 23:03 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/19/2016 23:03 RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 23:03 RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/19/2016 23:03 RLE	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/19/2016 23:03 RLE	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/19/2016 23:03 RLI	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	nalyst	Method
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 23:03	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 23:03	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 23:03	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 23:03	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/19/2016 23:03	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 23:03	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/19/2016 23:03	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 23:03	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/19/2016 23:03	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 23:03	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 23:03	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/19/2016 23:03	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			05/19/2016 23:03	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 23:03	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/19/2016 23:03	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			05/19/2016 23:03	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 23:03	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 23:03	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/19/2016 23:03	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 23:03	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 23:03	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/19/2016 23:03	RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			05/19/2016 23:03	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 23:03	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			05/19/2016 23:03	RLD	EPA 8260C

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CT LAB Sample#: 722490	Sample Description: MW-12B	License/Well #: 4189/022	Sampled: 05/11/2016 1630
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analys Date/Time Date/Ti		Method
Vinyl chloride	<0.016	ug/L	0.016	0.052	1		05/19/2016	23:03 RLD	EPA 8260C
CT LAB Sample#: 722491 Sample	e Description: MW-1	2B					License/Well #: 4189/02	2 Sampled	d: 05/11/2016 1630
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analys Date/Time Date/Ti		Method
Metals Results									
Dissolved Iron	<0.010	mg/L	0.010	0.032	1		05/16/2016	14:10 NAH	EPA 6010C
Dissolved Manganese	<1.6	ug/L	1.6	5.3	1		05/16/2016	14:10 NAH	EPA 6010C
CT LAB Sample#: 722492 Sample	e Description: TB-2						License/Well #: 4189/99	9 Sampled	I: 05/11/2016
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analys Date/Time Date/Ti		Method
Organic Results									
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1		05/19/2016	18:17 RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1		05/19/2016	18:17 RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1		05/19/2016	18:17 RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1		05/19/2016	18:17 RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		05/19/2016	18:17 RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1		05/19/2016	18:17 RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		05/19/2016	18:17 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1		05/19/2016	18:17 RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1		05/19/2016	18:17 RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		05/19/2016	18:17 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time	
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/19/2016 18:17 RLD EPA 8260	C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 18:17 RLD EPA 8260	C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:17 RLD EPA 8260	C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/19/2016 18:17 RLD EPA 8260	C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/19/2016 18:17 RLD EPA 8260	C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/19/2016 18:17 RLD EPA 8260	C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:17 RLD EPA 8260	C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/19/2016 18:17 RLD EPA 8260	C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 18:17 RLD EPA 8260	C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/19/2016 18:17 RLD EPA 8260	C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/19/2016 18:17 RLD EPA 8260	C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:17 RLD EPA 8260	C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 18:17 RLD EPA 8260	C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/19/2016 18:17 RLD EPA 8260	C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/19/2016 18:17 RLD EPA 8260	C
Acetone	<0.90	ug/L	0.90	3.1	1			05/19/2016 18:17 RLD EPA 8260	C
Benzene	<0.060	ug/L	0.060	0.18	1			05/19/2016 18:17 RLD EPA 8260	C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 18:17 RLD EPA 8260	C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 18:17 RLD EPA 8260	C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/19/2016 18:17 RLD EPA 8260	C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/19/2016 18:17 RLD EPA 8260	C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/19/2016 18:17 RLD EPA 8260	C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/19/2016 18:17 RLD EPA 8260	C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/19/2016 18:17 RLD EPA 8260	C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/19/2016 18:17 RLD EPA 8260	C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:17 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/19/2016 18:17 RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/19/2016 18:17 RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:17 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/19/2016 18:17 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/19/2016 18:17 RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:17 RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:17 RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 18:17 RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:17 RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/19/2016 18:17 RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 18:17 RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/19/2016 18:17 RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/19/2016 18:17 RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:17 RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/19/2016 18:17 RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/19/2016 18:17 RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/19/2016 18:17 RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			05/19/2016 18:17 RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/19/2016 18:17 RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/19/2016 18:17 RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			05/19/2016 18:17 RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/19/2016 18:17 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/19/2016 18:17 RLD	EPA 8260C
Tetrahydrofuran	1.1	ug/L	0.60 *	2.1	1	B,Z		05/19/2016 18:17 RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

delivering more than data from your environmental analyses

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747

Folder #: 118945 Page 41 of 42

CT LAB Sample#: 722492	Sample Description: TR-2	License/Well #: 4189/999	Sampled: 05/11/2016
CT LAB Sample#: 722492	Sample Description. TB-2	License/Weii #. 4169/999	Sampled: 05/11/2016

CT LAB Sample#. 122492 Sam	ipie Description. TB-2						Elcense/Weil #. 4109/999 Sampled: 05/11/2	2010
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Metho Date/Time Date/Time	od
Toluene	<0.060	ug/L	0.060	0.21	1		05/19/2016 18:17 RLD EPA 82	260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1		05/19/2016 18:17 RLD EPA 82	260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1		05/19/2016 18:17 RLD EPA 82	260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1		05/19/2016 18:17 RLD EPA 82	260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1		05/19/2016 18:17 RLD EPA 82	260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1		05/19/2016 18:17 RLD EPA 82	260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1		05/19/2016 18:17 RLD EPA 82	260C
CT LAB Sample#: 722493 Sam	nple Description: MW-1	2S					License/Well #: 4189/020 Sampled: 05/11/2	2016 16
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Analysis Analyst Metho Date/Time Date/Time	od
Metals Results								
Dissolved Iron	<0.010	mg/L	0.010	0.032	1		05/16/2016 14:17 NAH EPA 60	10C
Dissolved Manganese	104	ug/L	1.6	5.3	1		05/16/2016 14:17 NAH EPA 60	10C

CT LABORATORIE delivering more than data from your environmental analyses

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 118945 Page 42 of 42

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Incorrect field data were provided for MW-12B. Reason for Revision

Description

Code

Submitted by: Brett M. Szymanski Project Manager 608-356-2760

QC Qualifiers

Code	Description	Current CT Laboratories
В	Analyte detected in the associated Method Blank.	Kansas NELAP ID# E-103
С	Toxicity present in BOD sample.	Kentucky ID# 0023
D	Diluted Out.	ISO/IEC 17025-2005 A2L
E	Safe, No Total Coliform detected.	North Carolina ID# 674
F	Unsafe, Total Coliform detected, no E. Coli detected.	
G	Unsafe, Total Coliform detected and E. Coli detected.	Wisconsin (WDNR) Chem
Н	Holding time exceeded.	Wisconsin (DATCP) Bacte
I	BOD incubator temperature was outside acceptance limits during test period.	DoD-ELAP A2LA 3806.01
J	Estimated value.	GA EPD Stipulation ID E8
L	Significant peaks were detected outside the chromatographic window.	Louisiana ID # 115843
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	Virginia ID# 7608
N	Insufficient BOD oxygen depletion.	Illinois NELAP ID # 00241
0	Complete BOD oxygen depletion.	Wisconsin (WOSB) ID# W
Р	Concentration of analyte differs more than 40% between primary and confirmation analysis.	· · · ·
Q	Laboratory Control Sample outside acceptance limits.	Maryland ID# 344
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
Т	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
X	Analyte exceeded calibration range.	
Υ	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

Current CT Laboratories Certifications

0368 2LA Cert # 3806.01 emistry ID# 157066030 cteriology ID# 105-289 01 E871111, Expires Annually 413 WI-5499-WBE



QC SUMMARY REPORT

TETRA TECH Project Name: WDNR OCONOMOWOC

ELECTROPLATING

				Lab Contro	l Spike Wate	r					
Analytical Run #: CTLab #: Parent Sample #:	125980 722428	•		05/12/2016 16:32 MER	Prep Batch #: Prep Date/Time: Prep Analyst:			Matrix: Method:		LIQUID E310.2	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
kalinity		363.0	mg/L			375.0	97	90 11	10		

ELECTROPLATING

SDG #: 0 Folder #: 118945 Project Number: 117-7413001.01

	Method Blank Water											
Analytical Run #: CTLab #:	125980 722429	•	is Date:	05/12/2016 16:33	Prep Batch #:			Matrix: Method:	LIQ E31	_		
Parent Sample #:	122429	Analys		MER	Prep Analyst:			Metrioa.	LSI	0.2		
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPI	D RPD Limit		
lkalinity		5	mg/L		U	0			5			

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ELECTROPLATING

1 06	Control	Cnika	14/040"
Lau	COILLO	SUIKE	vvalei

Analytical Run #:	126089	Analysis Date:	05/18/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #: Parent Sample #:	725459	Analysis Time: Analyst:	09:33 JJF	Prep Date/Time: Prep Analyst:	Method:	SW9056A
l arent Sample #.		Allalyst.	JJI	i lep Allalyst.		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	14.81	mg/L			15.00	99	80 120		
Sulfate	25.94	mg/L			25.00	104	80 120		

ELECTROPLATING

SDG #: 0 Folder #: 118945 Project Number: 117-7413001.01

Method	l Blank	Water
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Analytical Run #:	126089	Analysis Date:	05/18/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	725460	Analysis Time:	10:07	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	0.7	mg/L		U	0		0.7		
Sulfate	0.5	mg/L		U	0		0.5		

Date Printed: 05/27/2016

ELECTROPLATING

SDG #: 0 Folder #: 118945 Project Number: 117-7413001.01

				Lab Contro	l Spike Wate	r				
Analytical Run #: CTLab #: Parent Sample #:	126147 727250	•	is Date: is Time: t:	05/23/2016 12:52 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix: Method:	LIQUII SW90	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		53.27	mg/L			50.00	107	85 111		

Date Printed: 05/27/2016

ELECTROPLATING

SDG #: 0 Folder #: 118945 Project Number: 117-7413001.01

				Method E	Blank Water					
Analytical Run #: CTLab #: Parent Sample #:	126147 727251	•	is Date: is Time: t:	05/23/2016 13:07 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix: Method:	LIQUII SW90	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		0.5	mg/L		U	0		0.5		

Date Printed: 05/27/2016

ELECTROPLATING

SDG #: 0 Folder #: 118945 Project Number: 117-7413001.01

	Matrix Spike	Duplicate Water		
Analysis Date:	05/16/2016	Prep Batch #:	Matrix:	GROUND WATER

CTLab #: 724535 Analysis Time: 13:05 Prep Date/Time: Method: SW6010

	Parent Sample #: 724534 Analyte	724534	Analyst:		DC		Prep Analyst:								
,	Analyte		QC sample result	Units		Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imit:		RPD	RPD Limit	
Ī	ron		3.84	mg/L		2.84		2.00	50	72		113	11	18	
N	Manganese		1030	ug/L		175		1000	86	67		121	2	13	

Analytical Run #:

126035

ELECTROPLATING

Matrix Spike Water	Matrix	Spike	Water	
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Ī	Analytical Run #: CTLab #:	126035 724534	Analysis Date: Analysis Time:	05/16/2016 12:59	Prep Batch #: Prep Date/Time:	Matrix: Method:	GROUND WATER SW6010
	Parent Sample #:	722475	Analyst:	DC	Prep Analyst:	wethou.	300010

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	4.28	mg/L	2.84		2.00	72	72 113		18
Manganese	1010	ug/L	175		1000	84	67 121		13

ELECTROPLATING

_				Lab Contro	ol Spike Water			
	Analytical Run #:	126037	Analysis Date:	05/16/2016	Prep Batch #:	57245	Matrix:	LIQUID
	CTLab #:	722769	Analysis Time:	15:41	Prep Date/Time:	05/13/2016 10:00	Method:	SW6010
	Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.4640	mg/L			0.4000	116	80 120		
Manganese	189.0	ug/L			200.0	94	86 112		

ELECTROPLATING

Method	Plank	Matar
WELLIOU	DIALIK	vvalei

Analytical Run #:	126037 722768	Analysis Date: Analysis Time:	05/16/2016 15:47	Prep Batch #:	57245 05/13/2016 10:00	Matrix:	LIQUID SW6010
Parent Sample #:	722700	Analyst:	NAH	Prep Analyst:	LJF		2110010

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.02	mg/L		U	0		0.02		
Manganese	1.4	ug/L		U	0		1.4		

ELECTROPLATING

SDG #: 0 Folder #: 118945 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #: Analysis Date: Prep Batch #: 125991 05/19/2016 Matrix: LIQUID CTLab #: Analysis Time: Prep Date/Time: Method: 725958 16:22 SW8260C Parent Sample #: Analyst: RLD Prep Analyst:

Parent Sample #.	Analys	SI. KL	.U	Prep Analyst:					
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.61	ug/L			4.00	90	74 127		
1,1,1-Trichloroethane	3.85	ug/L			4.00	96	73 132		
1,1,2,2-Tetrachloroethane	4.44	ug/L			4.00	111	67 129		
1,1,2-Trichloroethane	4.15	ug/L			4.00	104	73 129		
1,1-Dichloroethane	3.92	ug/L			4.00	98	73 129		
1,1-Dichloroethene	4.09	ug/L			4.00	102	73 132		
1,1-Dichloropropene	4.06	ug/L			4.00	102	75 125		
1,2 Dichloroethane-d4	92.0	% Recovery			100	92.0	68 120		
1,2,3-Trichlorobenzene	3.72	ug/L			4.00	93	72 125		
1,2,3-Trichloropropane	4.26	ug/L			4.00	106	68 136		
1,2,4-Trichlorobenzene	3.83	ug/L			4.00	96	67 124		
1,2,4-Trimethylbenzene	3.89	ug/L			4.00	97	77 123		
1,2-Dibromo-3-chloropropane	4.27	ug/L			4.00	107	56 138		
1,2-Dibromoethane	4.21	ug/L			4.00	105	76 127		
1,2-Dichlorobenzene	3.81	ug/L			4.00	95	82 120		
1,2-Dichloroethane	4.10	ug/L			4.00	102	72 134		
1,2-Dichloropropane	3.93	ug/L			4.00	98	76 124		
1,3,5-Trimethylbenzene	3.92	ug/L			4.00	98	77 124		
1,3-Dichlorobenzene	3.74	ug/L			4.00	94	81 120		
1,3-Dichloropropane	4.17	ug/L			4.00	104	76 125		
1,4-Dichlorobenzene	3.74	ug/L			4.00	94	80 120		
2,2-Dichloropropane	3.78	ug/L			4.00	94	54 144		
2-Butanone	47.6	ug/L			40.0	119	57 144		
2-Chlorotoluene	3.98	ug/L			4.00	100	77 123		
2-Hexanone	44.7	ug/L			40.0	112	61 132		
4-Chlorotoluene	3.86	ug/L			4.00	96	76 124		
4-Methyl-2-pentanone	47.6	ug/L			40.0	119	64 135		
Acetone	47.9	ug/L			40.0	120	51 152		
Benzene	3.90	ug/L			4.00	98	80 122		
Bromobenzene	3.85	ug/L			4.00	96	81 120		
Bromochloromethane	3.88	ug/L			4.00	97	78 126		
Bromodichloromethane	3.80	ug/L			4.00	95	67 132		
Bromofluorobenzene	100	% Recovery			100	100	68 120		
Bromoform	3.88	ug/L			4.00	97	55 132		
Bromomethane	4.31	ug/L			4.00	108	65 141		
Carbon disulfide	8.37	ug/L			8.00	105	61 140		
Carbon tetrachloride	3.89	ug/L			4.00	97	72 133		
Chlorobenzene	3.81	ug/L			4.00	95	80 122		
Chloroethane	4.10	ug/L			4.00	102	71 134		
Chloroform	3.82	ug/L			4.00	96	73 127		
Chloromethane	4.24	ug/L			4.00	106	72 128		
cis-1,2-Dichloroethene	3.89	ug/L			4.00	97	76 127		

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ELECTROPLATING

SDG #: 0 Folder #: 118945 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #:	125991	Analysis Date:	05/19/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	725958	Analysis Time:	16:22	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imit		RPD	RPD Limit
cis-1,3-Dichloropropene	3.87	ug/L			4.00	97	72		125		
d8-Toluene	99.0	% Recovery			100	99.0	71		117		
Dibromochloromethane	3.83	ug/L			4.00	96	60		131		
Dibromofluoromethane	98.0	% Recovery			100	98.0	67		121		
Dibromomethane	4.22	ug/L			4.00	106	76		129		
Dichlorodifluoromethane	4.11	ug/L			4.00	103	64		149		
Diisopropyl ether	4.00	ug/L			4.00	100	62		137		
Ethylbenzene	3.88	ug/L			4.00	97	80		121		
Hexachlorobutadiene	3.76	ug/L			4.00	94	71		131		
sopropylbenzene	3.82	ug/L			4.00	96	75		122		
m & p-Xylene	7.71	ug/L			8.00	96	80		121		
Methyl tert-butyl ether	4.15	ug/L			4.00	104	63		135		
Methylene chloride	4.43	ug/L			4.00	111	38		174		
n-Butylbenzene	4.12	ug/L			4.00	103	71		125		
n-Propylbenzene	4.08	ug/L			4.00	102	76		122		
Naphthalene	4.00	ug/L			4.00	100	64		126		
o-Xylene	4.02	ug/L			4.00	100	77		120		
o-Isopropyltoluene	4.09	ug/L			4.00	102	76		122		
sec-Butylbenzene	4.12	ug/L			4.00	103	75		122		
Styrene	3.88	ug/L			4.00	97	76		121		
ert-Butylbenzene	3.99	ug/L			4.00	100	77		120		
Tetrachloroethene	3.88	ug/L			4.00	97	75		127		
Tetrahydrofuran	48.4	ug/L			40.0	121	60		131		
Toluene	3.76	ug/L			4.00	94	80		122		
rans-1,2-Dichloroethene	4.09	ug/L			4.00	102	68		136		
rans-1,3-Dichloropropene	4.01	ug/L			4.00	100	65		126		
Trichloroethene	3.83	ug/L			4.00	96	78		126		
Trichlorofluoromethane	4.31	ug/L			4.00	108	70		145		
Vinyl acetate	42.2	ug/L			40.0	106	38		152		
Vinyl chloride	4.15	ug/L			4.00	104	71		135		

ELECTROPLATING

SDG #: 0 Folder #: 118945 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	125991	Analysis Date:	05/19/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	725994	Analysis Time:	17:20	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.05	ug/L		U	0		0.05		
1,1,1-Trichloroethane	0.06	ug/L		U	0		0.06		
,1,2,2-Tetrachloroethane	0.020	ug/L		U	0		0.020		
,1,2-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1-Dichloroethane	0.06	ug/L		U	0		0.06		
,1-Dichloroethene	0.07	ug/L		U	0		0.07		
,1-Dichloropropene	0.06	ug/L		U	0		0.06		
,2 Dichloroethane-d4	100	% Recovery			100	100	68 120		
,2,3-Trichlorobenzene	0.05	ug/L		U	0		0.05		
,2,3-Trichloropropane	0.04	ug/L		U	0		0.04		
,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04		
,2,4-Trimethylbenzene	0.05	ug/L		U	0		0.05		
,2-Dibromo-3-chloropropane	0.03	ug/L		U	0		0.03		
,2-Dibromoethane	0.04	ug/L		U	0		0.04		
,2-Dichlorobenzene	0.06	ug/L		U	0		0.06		
,2-Dichloroethane	0.04	ug/L		U	0		0.04		
,2-Dichloropropane	0.06	ug/L		U	0		0.06		
,3,5-Trimethylbenzene	0.06	ug/L		U	0		0.06		
,3-Dichlorobenzene	0.06	ug/L		U	0		0.06		
,3-Dichloropropane	0.04	ug/L		U	0		0.04		
,4-Dichlorobenzene	0.05	ug/L		U	0		0.05		
,2-Dichloropropane	0.04	ug/L		U	0		0.04		
-Butanone	0.8	ug/L		U	0		0.8		
-Chlorotoluene	0.06	ug/L		U	0		0.06		
-Hexanone	0.4	ug/L		U	0		0.4		
-Chlorotoluene	0.05	ug/L		U	0		0.05		
-Methyl-2-pentanone	0.03	ug/L		U	0		0.03		
cetone	17.8	ug/L		_	0		0.9		
Senzene	0.06	ug/L		U	0		0.06		
romobenzene	0.06	ug/L ug/L		U	0		0.04		
romochloromethane	0.04	ug/L		U	0		0.04		
romodichloromethane	0.017	ug/L ug/L		U	0		0.017		
romofluorobenzene	100	ug/∟ % Recovery		J	100	100			
romoform	0.018			U	0	100	0.018		
romonorm	0.018	ug/L		U	0		0.018		
romometnane Carbon disulfide	0.09	ug/L		U			0.09		
		ug/L			0				
arbon tetrachloride	0.06	ug/L		U	0		0.06		
hlorobenzene	0.04	ug/L		U	0		0.04		
Chloroethane	0.06	ug/L		U	0		0.06		
Chloroform	0.06	ug/L		U	0		0.06		
Chloromethane	0.05	ug/L		U	0		0.05		
cis-1,2-Dichloroethene	0.06	ug/L		U	0		0.06		

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ELECTROPLATING

SDG #: 0 Folder #: 118945 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	125991	Analysis Date:	05/19/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	725994	Analysis Time:	17:20	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.015	ug/L		U	0		0.015		
d8-Toluene	100	% Recovery			100	100	71 117		
Dibromochloromethane	0.016	ug/L		U	0		0.016		
Dibromofluoromethane	100	% Recovery			100	100	67 122		
Dibromomethane	0.06	ug/L		U	0		0.06		
Dichlorodifluoromethane	0.06	ug/L		U	0		0.06		
Diisopropyl ether	0.04	ug/L		U	0		0.04		
Ethylbenzene	0.06	ug/L		U	0		0.06		
Hexachlorobutadiene	0.07	ug/L		U	0		0.07		
sopropylbenzene	0.05	ug/L		U	0		0.05		
m & p-Xylene	0.12	ug/L		U	0		0.12		
Methyl tert-butyl ether	0.04	ug/L		U	0		0.04		
Methylene chloride	0.06	ug/L		U	0		0.06		
n-Butylbenzene	0.05	ug/L		U	0		0.05		
n-Propylbenzene	0.05	ug/L		U	0		0.05		
Naphthalene	0.05	ug/L		U	0		0.05		
o-Xylene	0.05	ug/L		U	0		0.05		
o-Isopropyltoluene	0.06	ug/L		U	0		0.06		
sec-Butylbenzene	0.05	ug/L		U	0		0.05		
Styrene	0.05	ug/L		U	0		0.05		
ert-Butylbenzene	0.06	ug/L		U	0		0.06		
Tetrachloroethene	0.06	ug/L		U	0		0.06		
Tetrahydrofuran	0.6	ug/L		U	0		0.6		
Toluene	0.06	ug/L		U	0		0.06		
rans-1,2-Dichloroethene	0.06	ug/L		U	0		0.06		
rans-1,3-Dichloropropene	0.014	ug/L		U	0		0.014		
Γrichloroethene	0.03	ug/L		U	0		0.03		
Trichlorofluoromethane	0.05	ug/L		U	0		0.05		
Vinyl acetate	0.5	ug/L		U	0		0.5		
Vinyl chloride	0.016	ug/L		U	0		0.016		

ELECTROPLATING

Analytical Run #: CTLab #:	126211 725422	Analysis Date: Analysis Time:	05/19/2016 11:32	Prep Batch #: Prep Date/Time:	57333 05/19/2016 08:30	Matrix: Method:	LIQUID RSK175
Parent Sample #:		Analyst:	AMA	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike % Amount Recovery Added		Control / Limits			RPD	RPD Limit
Acetylene	2.32	ug/L			3.06	76	70		130		20
Ethane	4.85	ug/L			4.77	102	70		130		20
Ethene	6.98	ug/L			6.79	103	65		124		20
Methane	2.35	ug/L			2.29	103	70		130		20

ELECTROPLATING

Method	Rlank	Water

Analytical Run #: CTLab #:	126211 725421	Analysis Date: Analysis Time:	05/19/2016 11:42	Prep Batch #:	57333 05/19/2016 08:30	Matrix: Method:	LIQUID RSK175
Parent Sample #:	720421	Analyst:	AMA	Prep Analyst:	AMA	Woulde.	NON170

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Acetylene	0.23	ug/L		U	0		0.23		
Ethane	0.4	ug/L		U	0		0.4		
Ethene	0.5	ug/L		U	0		0.5		
Methane	0.4	ug/L		U	0		0.4		



Sample Condition Report

Folder #: 118945 Print Date / Time: 05/12/2016 11:16
Client: TETRA TECH Received Date / Time / By: 05/12/2016 1034

Project Name: WDNR OCONOMOWOC ELECTROPLATING Log-In Date / Time / By: 05/12/2016 1052 BNA

Project Phase: Project #: 117-7413001.01 PM: BMS

Coolers: 5308 Temperature: 2.9 C On Ice:

Custody Seals Present : COC Present:? Y Complete? Y

Seal Intact?NNumbers:NOT PRESENTShip Method:FEDEXTracking Number:0201776321646785

Adequate Packaging: Y Temp Blank Enclosed?

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

Sample ID / D	escription	Container Type	Cond. Code	pH OK?/Filtered?	Tests
722472 MV	<i>N</i> -105S				
		UNPRES PL	1	/	ALK,Anions
		Total # of Contain		$NPRES PL^{'}) = 1$	/ LET C, / LINOTIO
				,	
722472 MV	W-105S				
		VOA HCL	1	/	GAS
		VOA HCL	1	/	GAS
		VOA HCL	1	/	GAS
		Total # of Contain	ers of Type (V	$OA\ HCL\) = 3$	
722472 MV	W-105S				
		HNO3	1	Υ /	ICP
		Total # of Contain	ers of Type (H	NO3) = 1	
722472 MV	N-105S				
		H2SO4 PL	1	Υ /	TOC
		Total # of Contain	ers of Type (H	2SO4 PL) = 1	
722472 MV	N-105S				
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Contain	ers of Type (V	$OA\ HCL\) = 3$	
Sample ID / D	escription	Container Type	Cond. Code	pH OK?/Filtered?	Tests
722475 MV	N-105S				
		HNO3	1	Υ /	ICP
		Total # of Contain	ers of Type (H	NO3) = 1	
Sample ID / D	escription	Container Type	Cond. Code	pH OK?/Filtered?	Tests

118945

Υ

722476	MW-105S DUP	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
		(c	
22476	MW-105S DUP	VOA HCL 1 /	GAS
		VOA HCL 1 /	GAS
		VOA HCL 1 /	GAS
		Total # of Containers of Type ($VOA\ HCL$) = 3	
22476	MW-105S DUP		
		HNO3 1 Y / Total # of Containers of Type $(HNO3) = 1$	ICP
22476	MW-105S DUP		
		H2SO4 PL 1 Y /	TOC
		Total # of Containers of Type (H2SO4 PL) = 1	
22476	MW-105S DUP	VOA HCL 1 /	VOC
		VOA HCL 1 / VOA HCL 1 /	VOC
		VOA HCL 1 /	VOC
		Total # of Containers of Type ($VOA\ HCL$) = 3	
Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
722477	MW-105S DUP	INIO2	100
		HNO3 1 Y / Total # of Containers of Type $(HNO3) = 1$	ICP
Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
722478	MW-105D		
		UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
722478	MW-105D	VOLUGI	CAC
		VOA HCL 1 / VOA HCL 1 /	GAS GAS
		VOA HCL 1 /	GAS
		Total # of Containers of Type ($VOA\ HCL$) = 3	
722478	MW-105D		
		HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
722478	MW-105D	LIDOO A DI	
		H2SO4 PL 1 Y / Total # of Containers of Type $(H2SO4 PL) = 1$	TOC
22478	MW-105D		
•		VOA HCL 1 /	VOC

Total # of Container	s of Type	(VOA HCL) -	- 3
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Sample ID / D	escription	Container Type	Cond. Code pH OK?/Filtered?	Tests
722479 MV	V-105D	HNO3 Total # of Containers	1 Y / of Type (<i>HNO</i> 3) = 1	ICP
Sample ID / D	escription	Container Type	Cond. Code pH OK?/Filtered?	Tests
722480 MV	V-105B	UNPRES PL Total # of Containers	1 / of Type (<i>UNPRES PL</i>) = 1	ALK,Anions
722480 MV	V-105B	VOA HCL VOA HCL VOA HCL Total # of Containers	1 / 1 / 1 / of Type (VOA HCL) = 3	GAS GAS GAS
722480 MV	V-105B	HNO3 Total # of Containers	of Type (<i>HNO3</i>) = 1	ICP
722480 MV	V-105B	H2SO4 PL Total # of Containers	1 Y / of Type (<i>H2SO4 PL</i>) = 1	TOC
722480 MV	V-105B	VOA HCL VOA HCL VOA HCL Total # of Containers	1 / 1 / 1 / of Type (<i>VOA HCL</i>) = 3	VOC VOC VOC
Sample ID / D	escription	Container Type	Cond. Code pH OK?/Filtered?	Tests
722481 MV	V-105B	HNO3 Total # of Containers	1 Y / of Type (<i>HNO3</i>) = 1	ICP
Sample ID / D	escription	Container Type	Cond. Code pH OK?/Filtered?	Tests
722482 MV	V-9S	UNPRES PL Total # of Containers	of Type (UNPRES PL) = 1	ALK,Anions
722482 MV	V-9S	VOA HCL VOA HCL VOA HCL Total # of Containers	1 / 1 / 1 / of Type (VOA HCL) = 3	GAS GAS GAS

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722482
         MW-9S
                                   HNO3
                                                                                                  ICP
                                   Total # of Containers of Type (HNO3) = 1
722482
         MW-9S
                                   H2SO4 PL
                                                                                                 TOC
                                                               (H2SO4 PL) = 1
                                   Total # of Containers of Type
722482
         MW-9S
                                   VOA HCL
                                                                                                 VOC
                                   VOA HCL
                                                                                                 VOC
                                   VOA HCL
                                                                                                 VOC
                                   Total # of Containers of Type (VOA\ HCL) =
Sample ID / Description
                                   Container Type
                                                        Cond. Code
                                                                      pH OK?/Filtered?
                                                                                              Tests
722483
         MW-9S
                                   HNO3
                                                                                                  ICP
                                   Total # of Containers of Type (HNO3) = 1
Sample ID / Description
                                                        Cond. Code
                                                                      pH OK?/Filtered?
                                   Container Type
                                                                                              Tests
722484
         MW-5D
                                   UNPRES PL
                                                                                               ALK, Anions
                                   Total # of Containers of Type
                                                               (UNPRES PL) = 1
722484
         MW-5D
                                   VOA HCL
                                                                                                 GAS
                                   VOA HCL
                                                                                                 GAS
                                   VOA HCL
                                                                                                 GAS
                                                                (VOA\ HCL) = 3
                                   Total # of Containers of Type
722484
         MW-5D
                                                                                                  ICP
                                   Total # of Containers of Type
                                                                (HNO3) = 1
722484
         MW-5D
                                   H2SO4 PL
                                                                                                 TOC
                                   Total # of Containers of Type
                                                                (H2SO4 PL) = 1
722484
         MW-5D
                                   VOA HCL
                                                             1
                                                                                                 VOC
                                   VOA HCL
                                                                                                 VOC
                                   VOA HCL
                                                                                                 VOC
                                   Total # of Containers of Type
                                                                (VOA\ HCL) =
Sample ID / Description
                                   Container Type
                                                        Cond. Code
                                                                      pH OK?/Filtered?
                                                                                              Tests
722485
        MW-5D
                                   HNO3
                                                                                                  ICP
                                                                (HNO3) = 1
                                   Total # of Containers of Type
```

118945

Sample ID / Description	Container Type	Cond. Code pH OK?/Filtered?	Tests
722486 MW-12D	UNPRES PL Total # of Containers	of Type (UNPRES PL) = 1	ALK,Anions
722486 MW-12D	VOA HCL VOA HCL VOA HCL Total # of Containers	1 / 1 / 1 / of Type (VOA HCL) = 3	GAS GAS GAS
722486 MW-12D	HNO3 Total # of Containers	1 Y / of Type (<i>HNO</i> 3) = 1	ICP
722486 MW-12D	H2SO4 PL Total # of Containers	1 Y / of Type (<i>H2SO4 PL</i>) = 1	TOC
722486 MW-12D	VOA HCL VOA HCL VOA HCL Total # of Containers	1 / 1 / 1 / of Type (VOA HCL) = 3	VOC VOC VOC
Sample ID / Description	Container Type	Cond. Code pH OK?/Filtered?	Tests
722487 MW-12D	HNO3 Total # of Containers	1 Y / of Type (<i>HNO3</i>) = 1	ICP
Sample ID / Description	Container Type	Cond. Code pH OK?/Filtered?	Tests
722488 MW-12S	UNPRES PL Total # of Containers	of Type (UNPRES PL) = 1	ALK,Anions
722488 MW-12S	VOA HCL VOA HCL VOA HCL Total # of Containers	1 / 1 / 1 / of Type (VOA HCL) = 3	GAS GAS GAS
722488 MW-12S	HNO3 Total # of Containers	1 Y / of Type (<i>HNO3</i>) = 1	ICP
722488 MW-12S	H2SO4 PL Total # of Containers	1 Y / of Type (<i>H2SO4 PL</i>) = 1	TOC

```
722488
         MW-12S
                                                                                                    VOC
                                    VOA HCL
                                    VOA HCL
                                                                                                    VOC
                                    VOA HCL
                                                                                                    VOC
                                    Total # of Containers of Type
                                                                 (VOA\ HCL) =
                                                         Cond. Code
Sample ID / Description
                                    Container Type
                                                                        pH OK?/Filtered?
                                                                                                Tests
722490
         MW-12B
                                    UNPRES PL
                                                                                                 ALK, Anions
                                                                (UNPRES PL) = 1
                                    Total # of Containers of Type
722490
         MW-12B
                                    VOA HCL
                                                                                                    GAS
                                    VOA HCL
                                                              1
                                                                                                    GAS
                                    VOA HCL
                                                                                                    GAS
                                    Total # of Containers of Type
                                                                 (VOA\ HCL) = 3
722490
         MW-12B
                                    HNO3
                                                                                                    ICP
                                    Total # of Containers of Type
                                                                  (HNO3) = 1
722490
         MW-12B
                                    H2SO4 PL
                                                                                                    TOC
                                    Total # of Containers of Type
                                                                 (H2SO4 PL) = 1
722490
         MW-12B
                                    VOA HCL
                                                                                                    VOC
                                    VOA HCL
                                                                                                    VOC
                                    VOA HCL
                                                                                                    VOC
                                    Total # of Containers of Type
                                                                 (VOA\ HCL) = 3
Sample ID / Description
                                                         Cond. Code
                                                                        pH OK?/Filtered?
                                    Container Type
                                                                                                Tests
722491
         MW-12B
                                                                                                    ICP
                                    Total # of Containers of Type
                                                                  (HNO3) = 1
Sample ID / Description
                                    Container Type
                                                         Cond. Code
                                                                        pH OK?/Filtered?
                                                                                                Tests
722492
         TB-2
                                                                                                    VOC
                                    Trip Blank
                                                              1
                                    Trip Blank
                                                                                                    VOC
                                                              1
                                    Total # of Containers of Type
                                                                 (Trip\ Blank) = 2
Sample ID / Description
                                    Container Type
                                                         Cond. Code
                                                                        pH OK?/Filtered?
                                                                                                Tests
722493
         MW-12S
                                    HNO3
                                                                                                    ICP
                                    Total # of Containers of Type (HNO3) = 1
```

Condition CodeCondition Description1Sample Received OK

Rev 8/2014 CHAIN O	F CI	STO	DDY													P	 age	of	
Company: Tetra Tech Project Contact: Mark Manthay L F	N	۲ / ۱×××	****	***	(****)			356-27	60	Fax 6	508-3	/I_53913 356-2766 ries.com	EMA	npany	1:Te	trai	anthey Tein orpora	atehata K Dr S	uitela
Project Name: Company: TETR	A IE					ļ	am: RC Wast	RA)	DW. Othe		NPDE	S		ice To:	>OK	field \	i Wi s	53045)
Project #: [17-7413001-0] Logged By. BN.\ PM BN. COMPANDED COMP																			
Sampled By: ASNIN ROUXIPULL *Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions																			
Client Special Instructions			Ţ	ŧ			AN	ALYSE:	S RE	QUES	TED							rnaround '	
	_		DISOLGATE		21	S (Qu)	n etn ethe	110							Containers	MS/MSD	Date Ne		•
Matrix: GW - groundwater SW - surface water WW - wastewater DW - drinking water	Filtered? Y/N	Toc.	25 D 83	4 7	171 total	VOC BODO	meth eth,								Total # Cont	Designated MS/MSD		Surcharge 24 hr 200 2-3 days 10 4-9 days 50	s: % 0%
S - soil/sediment SL - sludge A - air M - misc/waste Sample S		<u> </u>		1 -		<u> </u>			ces \	with B	ottle	es per Te	st		l			CT Lab IC	
5-11-16 1030 GW grab MW. 105s		1	1	1	۱	17	3 3								10		722		7224
aud 2201 - Wim 2801		\Box	$oxed{1}$	'	u	13	3 2								10		120	1476/	72247
1120 MW-105D		\Box			<u> </u>	1	3 3								10		722	478/	72247
1150 mw-105B		Ц	1	1	<u> </u>	113	3/2								ΙŌ	_	1221	180/7	22481
120 mw-95	<u> </u>	Ц	4	4	4	$\sqcup 3$, , _										723	482/7	22U83
1425 MW-SD		Li	ľ	Ľ				2						1	10		720	1484/	72248
ISAO MW 12D			1	×	- 4		3 3	_							10		722		722487
1600 mw-125		Ш	X	<u>{ \</u>	1	1 6	3 3								10	<u>1</u>	70	2248	8/722
1630 my-12B		┕	1	1	1		4-			<u> </u>					10		72	2490	72249
TB-2		<u> </u>		_		É	2							_	2		72	2492	
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Relinquished By: Date/Time 1800 5-11-16			By:		_	7						Date/Time	•		-		Present		No #_/6_
Received by: Date/Time	Rece	eived	for La	bor	atory	bу: <u>~~</u>		//		2		Date/Time 5-1み-		165	2		ler #	30%	

CT Laboratories Terms and Conditions

Where a purchaser (Client) places an order for laboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by CTL in advance of the start of the project and in writing.

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

- 1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submitting a purchase order to CTL in writing, by telephone (confirmed in writing) or by negotiated contract. Whichever option the Client's requirements. It is the policy of CT Laboratories that samples not meeting the acceptance criteria, outlined in the NELAC standards and Section 5.8.3.2 of the DOD QSM, will not be accepted by the laboratory or will be qualified on the final report. All samples submitted to the abcoratory must: (1) be accompanied by proper, full and complete documentation, including sample identification, location, date and time of collection, the collector's name, type of pressvrationed by proper full and complete documentation, including sample identification, the client to determine the identity of a sample and any additional pertinent fields on the chain-of-custody. In the absence of any of the required information, the laboratory dampter information, the laboratory will attempt to contact the client to determine the identity of a sample, it will be rejected and the client will be contacted for further instructions or resampling. (3) be in an appropriate, the client of containers in appropriate, the client will be contacted for further instructions or resampling. If analysis is possible, the final report will be qualified. CT Laboratories can provide a sample guide containing approved containers and preservations for analytical methods requested. (4) adhere to specified holding times. If samples are received with less than ½ the holding time emaining for the requested lest, CT Laboratories will make its best effort to analyze the samples and notify the client. If holding times are exceeded, the final report will be contacted for further instructions or resampling. If samples show signs of damage, contamination or inadequate preservation, the client will be notified. If not, the samples are performed, the final report will be rejected and the client will be contacted for further instructions or resampling.
- 1.2 CT Laboratories must be supplied with complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.
- 1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or labitary for the action or inaction of any carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and defined monetage labeled.

2. PAYMENT TERMS

2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or poxion threed from the date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

- 3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change or techn
- 3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.
- 3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete at work in progress and be paid in full for at work completed.

4. WARRANTIES AND LIABILITY

- 4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Manuals then in effect, and CTL will not be responsible for any resampling or other charges if work must be repeated to compty with a subsequently finalized QAPP.
- 4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Acceptance occurs within this period, CTL will use its best efforts to meet holding times and will proceed with the work provided that, in CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have meet holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.
- 4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any decertification or revocation of any license, or notice of either, which affects work in progress.
- 4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way.

 4.5 Clerifs sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be limited to repeating any services performed, contingent on the Ctent's expense, additional sample(s) if necessary. Any reanalysis requested by
- 4.5 Cale such as the contract of the original Results contract of waitanty in contract of waitanty in contract of the cleans expense, additional sample(s) if necessary. Any reanalysis requested by the Cent generating Results consistent with the original Results which the original Results with the origin
- 4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, but, warrantly, nogfigence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is field within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.
- 4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mad or delivery services, or any other cause beyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

- 5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.
- 5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay CTL for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.
- 5.3 Should the Results delivered by CTL be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold CTL's right to independently defend its data.
- 5.4 CTL reserves the right to subcontract services ordered by the Client to another laboratories, if, in CTL's sole judgment, it is reasonably necessary, appropriate or advisable to do so, and with the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and insurance are those of the subcontracted laboratory.
- 5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to store them for an elternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other appEcable Federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at their own expense. CTL reserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated waste disposal vendor(s).
- 5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records for five (5) years.
- 5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the ligation.

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period. Comprehensive General and Contractual Liability (limit of \$2,000,000 per occurrence/ aggregate), Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of \$5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7. AUDIT

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices

FORM #: FPM3-02 Rev. #: 1.0

Effective Date: 05/27/2014

Page 1 of 1

NO Ice Present Temperature IR Gun# **Initials** Time Cooler #:

Cooler Receipt Form

ORIGIN ID:RRLA (262) 792-1282 ASHLEY KOWALEWSKI GEOTRANS INC 175 N CORPORATE DRIVE STE, 100 BROOKFIELD, WI 53045 UNITED STATES US

BILL SENDER

TO PATRICK LETTERER **CT LABORATORIES** 1230 LANGE COURT

BARABOO WI 53913

REF: 117-7413001.01





TRK# 7763 2164 6785

THU - 12 MAY 10:30A PRIORITY OVERNIGHT

DSR

53913 WI-US MSN

55 MSNA



Szymanski, Brett M

From: Manthey, Mark <Mark.Manthey@tetratech.com>

Sent: 06/16/2016 17:34 **To:** Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Yes, the value is wrong. The DO value for MW-12M should be 0.93

Thanks again.

Mark A. Manthey, P.G. | Associate Hydrogeologist Office: 262-792-1282 ext. 271 | Fax: 262-792-1310

Mark.Manthey@tetratech.com

Tetra Tech | Complex World, Clear Solutions™

175 N. Corporate Drive | Suite 100 | Brookfield, WI 53045 | www.tetratech.com



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From: Szymanski, Brett M [mailto:BSzymanski@ctlaboratories.com]

Sent: Thursday, June 16, 2016 4:58 PM

To: Manthey, Mark < Mark. Manthey@tetratech.com>

Subject: RE: Correct field parameters data for MW-13S sample

Hello Mark,

In looking at the field data, I'm assuming the DO for MW-12B is also incorrect? It looks like a conductivity reading.

Brett Szymanski

Project Manager CT Laboratories, LLC 1230 Lange Court Baraboo, WI 53913 Phone: 608-356-2760

Fax: 608-356-2766 www.ctlaboratories.com

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From: Manthey, Mark [mailto:Mark.Manthey@tetratech.com]

Sent: 06/16/2016 4:49 PM

To: Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Sorry again!

Found another error for the Dissolved Oxygen value for the TW-2021 sample (Sample ID = 75710). The correct DO value is 2.55 mg/L

725710 TW-202I Dissolved Oxygen (Field)	mg/L	5/18/2016	2.55
---	------	-----------	------

Mark A. Manthey, P.G. | Associate Hydrogeologist Office: 262-792-1282 ext. 271 | Fax: 262-792-1310

Mark.Manthey@tetratech.com

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From: Szymanski, Brett M [mailto:BSzymanski@ctlaboratories.com]

Sent: Thursday, June 16, 2016 4:44 PM

To: Manthey, Mark < <u>Mark.Manthey@tetratech.com</u>>

Subject: RE: Correct field parameters data for MW-13S sample

Hello Mark,

I'll get these field data updated with the correct information and send out revised analytical reports and EDDs by Monday, June 20th.

Have a good afternoon,

Brett Szymanski

Project Manager CT Laboratories, LLC 1230 Lange Court Baraboo, WI 53913 Phone: 608-356-2760

Fax: 608-356-2766 www.ctlaboratories.com

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From: Manthey, Mark [mailto:Mark.Manthey@tetratech.com]

Sent: 06/16/2016 4:41 PM **To:** Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Hi Brett,

Sorry about this, but I found another error in the field parameters data I sent you. It is for the MW-101S sample. The correct field data is listed below:

Sample	Well ID	Analyte	Units	Date	Result
721951	MW-101S	Color (Field)		5/10/2016	Clear
721951	MW-101S	Conductivity (Field)	umhos/cm	5/10/2016	3180
		Dissolved Oxygen			
721951	MW-101S	(Field)	mg/L	5/10/2016	2.62
721951	MW-101S	OX/REDOX (Field)	MV	5/10/2016	336
721951	MW-101S	pH (Field)	S.U.	5/10/2016	6.82
721951	MW-101S	Temperature (Field)	Deg. C	5/10/2016	9.98
721951	MW-101S	Turbidity (Field)		5/10/2016	clear

Thanks again.

Mark A. Manthey, P.G. | Associate Hydrogeologist

Office: 262-792-1282 ext. 271 | Fax: 262-792-1310

Mark.Manthey@tetratech.com

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From: Manthey, Mark

Sent: Thursday, June 16, 2016 11:28 AM

To: 'BSzymanski@ctlaboratories.com' < <u>BSzymanski@ctlaboratories.com</u>>

Subject: Correct field parameters data for MW-13S sample

Brett,

Per our telephone conversation, below are the correct field parameters readings for the MW-13S sample:

Sample Date: 5/13/2016

Field Parameters

Dissolved Oxygen (DO) = 3.78 mg/L

Oxidation Reduction Potential = 130 millivolts

pH = 7.35

Specific Conductivity = 832 umhos/cm

Temperature = 12.29 deg-C Turbidity = 30.2 ntu

Thanks.

Mark A. Manthey, P.G. | Associate Hydrogeologist Office: 262-792-1282 ext. 271 | Fax: 262-792-1310 Mark.Manthey@tetratech.com

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ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



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REVISED ANALYTICAL REPORT

TETRA TECH

MARK MANTHEY

175 N CORPORATE DRIVE

SUITE 100

BROOKFIELD, WI 53045

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project Phase:

Contract #: 2747

Project #: 117-7413001.01

Folder #: 119012

Purchase Order #:

Arrival Temperature: 2.1

Report Date: 05/27/2016

Date Received: 05/14/2016

Reprint Date:

Page 1 of 36

06/17/2016

Revision Date 06/17/2016

CT LAB Sample#: 723493 Sam	ple Description: MW-1	02S					License/V	Vell #: 4189/037	Sample	d: 05/13/2016 1030
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	6.79	mg/L	N/A	N/A	1			05/13/2016 00:	00 SUB	
OX/REDOX (Field)	356	MV	N/A	N/A	1			05/13/2016 00:	00 SUB	
Color (Field)	clear		N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
Conductivity (Field)	1230	umhos/cm	N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
pH (Field)	7.14	S.U.	N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
Temperature (Field)	12.17	Deg. C	N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
Inorganic Results										
Alkalinity Total	350	mg/L	5.0	18	1			05/20/2016 15:	33 LJS	EPA 310.2
Total Chloride	220	mg/L	7.0	24	10			05/18/2016 15:	44 JJF	EPA 9056A
Total Sulfate	28	mg/L	0.50	1.8	1			05/19/2016 02:	58 JJF	EPA 9056A
Total Organic Carbon	0.97	mg/L	0.50 *	1.7	1			05/23/2016 17:	42 JJF	EPA 9060A
Metals Results										
Total Iron	<0.020	mg/L	0.020	0.065	1		05/17/2016 13:00	05/18/2016 15:	06 NAH	EPA 6010C

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Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 119012

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analysis Analysis Analysis	nalyst	Method
Total Manganese	<1.4	ug/L	1.4	4.7	1		05/17/2016 13:00	05/18/2016 15:06	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 17:38	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 17:38	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 17:38	AMA	Mod RSK 175
Methane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 17:38	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 14:27	RLD	EPA 8260C
1,1,1-Trichloroethane	< 0.060	ug/L	0.060	0.21	1			05/20/2016 14:27	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 14:27	RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			05/20/2016 14:27	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 14:27	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/20/2016 14:27	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/20/2016 14:27	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 14:27	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 14:27	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/20/2016 14:27	RLD	EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 14:27	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			05/20/2016 14:27	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 14:27	RLD	EPA 8260C
1,2-Dichlorobenzene	< 0.060	ug/L	0.060	0.19	1			05/20/2016 14:27	RLD	EPA 8260C
1,2-Dichloroethane	< 0.040	ug/L	0.040	0.14	1			05/20/2016 14:27	RLD	EPA 8260C
1,2-Dichloropropane	< 0.060	ug/L	0.060	0.20	1			05/20/2016 14:27	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 14:27	RLD	EPA 8260C
1,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			05/20/2016 14:27	RLD	EPA 8260C

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 119012

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 14:2	7 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 14:2	7 RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 14:2	7 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 14:2	7 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 14:2	7 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 14:2	7 RLD	EPA 8260C
-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/20/2016 14:2	7 RLD	EPA 8260C
-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 14:2	7 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 14:2	7 RLD	EPA 8260C
enzene	<0.060	ug/L	0.060	0.18	1			05/20/2016 14:2	7 RLD	EPA 8260C
romobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 14:2	7 RLD	EPA 8260C
romochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 14:2	7 RLD	EPA 8260C
romodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 14:2	7 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 14:2	7 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/20/2016 14:2	7 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 14:2	7 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/20/2016 14:2	7 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 14:2	7 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:2	7 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/20/2016 14:2	7 RLD	EPA 8260C
chloromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 14:2	7 RLD	EPA 8260C
is-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:2	7 RLD	EPA 8260C
s-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 14:2	7 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 14:2	7 RLD	EPA 8260C
ibromomethane	< 0.060	ug/L	0.060	0.19	1			05/20/2016 14:2	7 RLD	EPA 8260C

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Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

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Contract #: 2747 Folder #: 119012

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 14:27	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 14:27	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:27	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/20/2016 14:27	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 14:27	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 14:27	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 14:27	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:27	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 14:27	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 14:27	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/20/2016 14:27	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			05/20/2016 14:27	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:27	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/20/2016 14:27	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			05/20/2016 14:27	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 14:27	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 14:27	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/20/2016 14:27	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:27	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 14:27	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/20/2016 14:27	RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			05/20/2016 14:27	RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 14:27	RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 14:27	RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			05/20/2016 14:27	RLD	EPA 8260C

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Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 119012

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CT LAB Sample#: 723494 Sam	ple Description: MW-	102S					License/V	Vell #: 4189/037 S	ampled	: 05/13/2016 1030
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Aı Date/Time	nalyst	Method
Metals Results										
Dissolved Iron	<0.010	mg/L	0.010	0.032	1			05/17/2016 14:26	NAH	EPA 6010C
Dissolved Manganese	<1.6	ug/L	1.6	5.3	1			05/17/2016 14:26	NAH	EPA 6010C
CT LAB Sample#: 723495 Sample	ple Description: MW-	15B					License/V	Vell #: 4189/034 S	ampled	: 05/13/2016 112
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	nalyst	Method
Field Results										
Dissolved Oxygen (Field)	0	mg/L	N/A	N/A	1			05/13/2016 00:00	SUB	
OX/REDOX (Field)	-129	MV	N/A	N/A	1			05/13/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/13/2016 00:00	SUB	FIELD
Conductivity (Field)	709	umhos/cm	N/A	N/A	1			05/13/2016 00:00	SUB	FIELD
pH (Field)	7.35	S.U.	N/A	N/A	1			05/13/2016 00:00	SUB	FIELD
Temperature (Field)	13.52	Deg. C	N/A	N/A	1			05/13/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/13/2016 00:00	SUB	FIELD
Inorganic Results										
Alkalinity Total	440	mg/L	5.0	18	1			05/20/2016 15:35	LJS	EPA 310.2
Total Chloride	8.7	mg/L	0.70	2.4	1			05/18/2016 16:03	JJF	EPA 9056A
Total Sulfate	2.3	mg/L	0.50	1.8	1			05/18/2016 16:03	JJF	EPA 9056A
Total Organic Carbon	1.3	mg/L	0.50 *	1.7	1			05/23/2016 17:54	JJF	EPA 9060A
Metals Results										
Total Iron	2.14	mg/L	0.020	0.065	1		05/17/2016 13:00	05/18/2016 15:32	NAH	EPA 6010C

4.7

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

410

ug/L

1.4

Total Manganese

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Sampled: 05/13/2016 1125 CT LAB Sample#: 723495 Sample Description: MW-15B License/Well #: 4189/034

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 17:47	AMA	Mod RSK 175
Ethane	0.93	ug/L	0.40 *	1.2	1		05/19/2016 08:30	05/19/2016 17:47	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 17:47	AMA	Mod RSK 175
Methane	920	ug/L	80	240	200		05/19/2016 08:30	05/19/2016 18:18	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 14:55	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:55	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 14:55	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/20/2016 14:55	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 14:55	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/20/2016 14:55	RLD	EPA 8260C
1,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			05/20/2016 14:55	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 14:55	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 14:55	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/20/2016 14:55	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 14:55	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/20/2016 14:55	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 14:55	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 14:55	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 14:55	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/20/2016 14:55	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 14:55	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:55	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 14:55	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 14:55	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 14:5	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 14:55	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 14:55	5 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 14:55	RLD	EPA 8260C
1-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/20/2016 14:55	RLD	EPA 8260C
-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 14:55	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 14:55	5 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/20/2016 14:55	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 14:55	5 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 14:55	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 14:55	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 14:55	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/20/2016 14:55	5 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 14:55	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/20/2016 14:55	5 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 14:55	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:55	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/20/2016 14:55	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 14:55	RLD	EPA 8260C
sis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:55	RLD	EPA 8260C
is-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 14:55	RLD	EPA 8260C
bibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 14:55	RLD	EPA 8260C
ibromomethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 14:55	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 14:5	5 RLD	EPA 8260C
Diisopropyl ether	< 0.040	ug/L	0.040	0.15	1			05/20/2016 14:55	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	alyst	Method
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:55	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/20/2016 14:55	RLD	EPA 8260C
sopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 14:55	RLD	EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 14:55	RLD	EPA 8260C
Methyl tert-butyl ether	< 0.040	ug/L	0.040	0.15	1			05/20/2016 14:55	RLD	EPA 8260C
lethylene chloride	< 0.060	ug/L	0.060	0.21	1			05/20/2016 14:55	RLD	EPA 8260C
-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 14:55	RLD	EPA 8260C
-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 14:55	RLD	EPA 8260C
aphthalene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 14:55	RLD	EPA 8260C
-Xylene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 14:55	RLD	EPA 8260C
-Isopropyltoluene	< 0.060	ug/L	0.060	0.21	1			05/20/2016 14:55	RLD	EPA 8260C
ec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 14:55	RLD	EPA 8260C
tyrene	< 0.050	ug/L	0.050	0.15	1			05/20/2016 14:55	RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 14:55	RLD	EPA 8260C
etrachloroethene	< 0.060	ug/L	0.060	0.20	1			05/20/2016 14:55	RLD	EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/20/2016 14:55	RLD	EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 14:55	RLD	EPA 8260C
ans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 14:55	RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/20/2016 14:55	RLD	EPA 8260C
richloroethene	<0.030	ug/L	0.030	0.10	1			05/20/2016 14:55	RLD	EPA 8260C
richlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 14:55	RLD	EPA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 14:55	RLD	EPA 8260C
inyl chloride	<0.016	ug/L	0.016	0.052	1			05/20/2016 14:55	RLD	EPA 8260C

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05/17/2016 13:00

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05/18/2016 15:39 NAH EPA 6010C

CT LAB Sample#: 723496 Sam	ple Description: MW-1	15B					License/V	Vell #: 4189/034	Sampled	d: 05/13/2016 1125
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	2.33	mg/L	0.010	0.032	1			05/17/2016 14	32 NAH	EPA 6010C
Dissolved Manganese	442	ug/L	1.6	5.3	1			05/17/2016 14	32 NAH	EPA 6010C
CT LAB Sample#: 723497 Sam	ple Description: MW-1	15S					License/V	Vell #: 4189/033	Sampled	d: 05/13/2016 1200
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	4.97	mg/L	N/A	N/A	1			05/13/2016 00	00 SUB	
OX/REDOX (Field)	228	MV	N/A	N/A	1			05/13/2016 00	00 SUB	
Color (Field)	clear		N/A	N/A	1			05/13/2016 00	00 SUB	FIELD
Conductivity (Field)	826	umhos/cm	N/A	N/A	1			05/13/2016 00	00 SUB	FIELD
pH (Field)	7.45	S.U.	N/A	N/A	1			05/13/2016 00	00 SUB	FIELD
Temperature (Field)	15.77	Deg. C	N/A	N/A	1			05/13/2016 00	00 SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/13/2016 00	00 SUB	FIELD
norganic Results										
Alkalinity Total	310	mg/L	5.0	18	1			05/20/2016 15	37 LJS	EPA 310.2
Total Chloride	120	mg/L	3.5	12	5			05/18/2016 16	22 JJF	EPA 9056A
Total Sulfate	19	mg/L	2.5	9.0	5			05/18/2016 16	22 JJF	EPA 9056A
Total Organic Carbon	2.5	mg/L	0.50	1.7	1			05/23/2016 18	54 JJF	EPA 9060A
Metals Results										
Total Iron	<0.020	mg/L	0.020	0.065	1		05/17/2016 13:00	05/18/2016 15	39 NAH	EPA 6010C

4.7

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

10.4

ug/L

1.4

Total Manganese

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 18:31	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 18:31	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 18:31	AMA	Mod RSK 175
Methane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 18:31	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 15:25	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:25	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 15:25	RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			05/20/2016 15:25	RLD	EPA 8260C
1,1-Dichloroethane	0.074	ug/L	0.060 *	0.19	1			05/20/2016 15:25	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/20/2016 15:25	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:25	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 15:25	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 15:25	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/20/2016 15:25	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 15:25	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/20/2016 15:25	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 15:25	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:25	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 15:25	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/20/2016 15:25	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 15:25	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:25	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 15:25	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 15:25	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 15:25	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 15:25	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:25	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 15:25	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/20/2016 15:25	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 15:25	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 15:25	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/20/2016 15:25	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 15:25	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 15:25	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 15:25	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 15:25	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/20/2016 15:25	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 15:25	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/20/2016 15:25	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 15:25	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:25	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/20/2016 15:25	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 15:25	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.16	ug/L	0.060 *	0.21	1			05/20/2016 15:25	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 15:25	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 15:25	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:25	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:25	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 15:25	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analysi Date/Time	Method
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:25 RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/20/2016 15:25 RLD	EPA 8260C
sopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 15:25 RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 15:25 RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 15:25 RLD	EPA 8260C
Methylene chloride	< 0.060	ug/L	0.060	0.21	1			05/20/2016 15:25 RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 15:25 RLD	EPA 8260C
n-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 15:25 RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/20/2016 15:25 RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			05/20/2016 15:25 RLD	EPA 8260C
o-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:25 RLD	EPA 8260C
sec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 15:25 RLD	EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			05/20/2016 15:25 RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:25 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 15:25 RLD	EPA 8260C
Гetrahydrofuran	<0.60	ug/L	0.60	2.1	1	В		05/20/2016 15:25 RLD	EPA 8260C
Гoluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:25 RLD	EPA 8260C
rans-1,2-Dichloroethene	< 0.060	ug/L	0.060	0.20	1			05/20/2016 15:25 RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/20/2016 15:25 RLD	EPA 8260C
Trichloroethene	0.098	ug/L	0.030 *	0.10	1			05/20/2016 15:25 RLD	EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 15:25 RLD	EPA 8260C
/inyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 15:25 RLD	EPA 8260C
/inyl chloride	<0.016	ug/L	0.016	0.052	1			05/20/2016 15:25 RLD	EPA 8260C

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

05/17/2016 13:00

05/17/2016 13:00

Project #: 117-7413001.01

Project Phase:

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05/18/2016 15:46 NAH EPA 6010C

05/18/2016 15:46 NAH EPA 6010C

CT LAB Sample#: 723498 Sample	ple Description: MW-1	158					License/\	Well #: 4189/033 S	ampled	: 05/13/2016 120
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	nalyst	Method
Metals Results										
Dissolved Iron	<0.010	mg/L	0.010	0.032	1			05/17/2016 14:39	NAH	EPA 6010C
Dissolved Manganese	4.5	ug/L	1.6 *	5.3	1			05/17/2016 14:39	NAH	EPA 6010C
CT LAB Sample#: 723499 Samp	ple Description: MW-1	15D					License/\	Nell #: 4189/025 S	ampled	: 05/13/2016 123
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Field Results										
Dissolved Oxygen (Field)	0	mg/L	N/A	N/A	1			05/13/2016 00:00	SUB	
OX/REDOX (Field)	158	MV	N/A	N/A	1			05/13/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/13/2016 00:00	SUB	FIELD
Conductivity (Field)	1140	umhos/cm	N/A	N/A	1			05/13/2016 00:00	SUB	FIELD
pH (Field)	7.19	S.U.	N/A	N/A	1			05/13/2016 00:00	SUB	FIELD
Temperature (Field)	15.91	Deg. C	N/A	N/A	1			05/13/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/13/2016 00:00	SUB	FIELD
Inorganic Results										
Alkalinity Total	370	mg/L	5.0	18	1			05/20/2016 15:38	LJS	EPA 310.2
Total Chloride	210	mg/L	7.0	24	10			05/19/2016 09:04	JJF	EPA 9056A
Total Sulfate	45	mg/L	2.5	9.0	5			05/18/2016 16:41	JJF	EPA 9056A
Total Organic Carbon	2.9	mg/L	0.50	1.7	1			05/23/2016 19:06	JJF	EPA 9060A
Metals Results										

0.065

4.7

0.020

1.4

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

mg/L

ug/L

0.147

226

Total Iron

Total Manganese

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 18:40	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 18:40	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 18:40	AMA	Mod RSK 175
Methane	2.8	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 18:40	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 15:53	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:53	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 15:53	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/20/2016 15:53	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:53	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/20/2016 15:53	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:53	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 15:53	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 15:53	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/20/2016 15:53	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 15:53	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/20/2016 15:53	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 15:53	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:53	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 15:53	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/20/2016 15:53	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 15:53	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:53	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 15:53	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 15:53	RLD	EPA 8260C

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CT LAB Sample#: 723499 Sample Description: MW-15D

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

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License/Well #: 4189/025 Sampled: 05/13/2016 1230

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	alyst	Method
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 15:53	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 15:53	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:53	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 15:53	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/20/2016 15:53	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 15:53	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 15:53	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/20/2016 15:53	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 15:53	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 15:53	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 15:53	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 15:53	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/20/2016 15:53	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 15:53	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/20/2016 15:53	RLD	EPA 8260C
Chlorobenzene	0.28	ug/L	0.040	0.14	1			05/20/2016 15:53	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:53	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/20/2016 15:53	RLD	EPA 8260C
Chloromethane	< 0.050	ug/L	0.050	0.18	1			05/20/2016 15:53	RLD	EPA 8260C
cis-1,2-Dichloroethene	3.9	ug/L	0.060	0.21	1			05/20/2016 15:53	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 15:53	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 15:53	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:53	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:53	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 15:53	RLD	EPA 8260C

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:53 RLD	EPA 8260C
Hexachlorobutadiene	< 0.070	ug/L	0.070	0.24	1			05/20/2016 15:53 RLD	EPA 8260C
sopropylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 15:53 RLD	EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 15:53 RLD	EPA 8260C
Methyl tert-butyl ether	0.043	ug/L	0.040 *	0.15	1			05/20/2016 15:53 RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:53 RLD	EPA 8260C
n-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 15:53 RLD	EPA 8260C
n-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 15:53 RLD	EPA 8260C
Naphthalene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 15:53 RLD	EPA 8260C
p-Xylene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 15:53 RLD	EPA 8260C
o-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:53 RLD	EPA 8260C
ec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 15:53 RLD	EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			05/20/2016 15:53 RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 15:53 RLD	EPA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 15:53 RLD	EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/20/2016 15:53 RLD	EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 15:53 RLD	EPA 8260C
rans-1,2-Dichloroethene	0.19	ug/L	0.060 *	0.20	1			05/20/2016 15:53 RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/20/2016 15:53 RLD	EPA 8260C
richloroethene	12	ug/L	0.030	0.10	1			05/20/2016 15:53 RLD	EPA 8260C
richlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 15:53 RLD	EPA 8260C
/inyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 15:53 RLD	EPA 8260C
/inyl chloride	<0.016	ug/L	0.016	0.052	1			05/20/2016 15:53 RLD	EPA 8260C

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

05/17/2016 13:00

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05/18/2016 15:53 NAH EPA 6010C

CT LAB Sample#: 723500 Samp	le Description: MW-1	15D					License/\	Well #: 4189/025	Sample	d: 05/13/2016 1230
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	<0.010	mg/L	0.010	0.032	1			05/17/2016 14:	46 NAH	EPA 6010C
Dissolved Manganese	225	ug/L	1.6	5.3	1			05/17/2016 14:	46 NAH	EPA 6010C
CT LAB Sample#: 723501 Samp	ole Description: MW-1	16S					License/\	Well #: 4189/026	Sample	d: 05/13/2016 1350
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0	mg/L	N/A	N/A	1			05/13/2016 00:	00 SUB	
OX/REDOX (Field)	-73	MV	N/A	N/A	1			05/13/2016 00:	00 SUB	
Color (Field)	clear		N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
Conductivity (Field)	2730	umhos/cm	N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
pH (Field)	7.01	S.U.	N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
Temperature (Field)	15.36	Deg. C	N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
Inorganic Results										
Alkalinity Total	730	mg/L	5.0	18	1			05/20/2016 15:	39 LJS	EPA 310.2
Total Chloride	250	mg/L	14	48	20			05/18/2016 16:	59 JJF	EPA 9056A
Total Sulfate	950	mg/L	10	36	20			05/18/2016 16:	59 JJF	EPA 9056A
Total Organic Carbon	4.8	mg/L	0.50	1.7	1			05/23/2016 19:	21 JJF	EPA 9060A
Metals Results										
Total Iron	6.77	mg/L	0.020	0.065	1		05/17/2016 13:00	05/18/2016 15:	53 NAH	EPA 6010C

4.7

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

58.3

ug/L

1.4

Total Manganese

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/19/2016 08:30	05/19/2016 18:49	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/19/2016 08:30	05/19/2016 18:49	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/19/2016 08:30	05/19/2016 18:49	AMA	Mod RSK 175
Methane	19	ug/L	0.80	2.4	2		05/19/2016 08:30	05/19/2016 19:02	AMA	Mod RSK 175
/olatile Organic Compounds 8260 Cor	mments: Suspected	acetone laborator	y contamination.							
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50	1.8	10			05/21/2016 17:13	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.60	ug/L	0.60	2.1	10			05/21/2016 17:13	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.65	10			05/21/2016 17:13	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.50	ug/L	0.50	1.7	10			05/21/2016 17:13	RLD	EPA 8260C
1,1-Dichloroethane	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:13	RLD	EPA 8260C
1,1-Dichloroethene	0.81	ug/L	0.70 *	2.3	10			05/21/2016 17:13	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:13	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	10			05/21/2016 17:13	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.3	10			05/21/2016 17:13	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	10			05/21/2016 17:13	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50	1.7	10			05/21/2016 17:13	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.30	ug/L	0.30	1.0	10			05/21/2016 17:13	RLD	EPA 8260C
1,2-Dibromoethane	<0.40	ug/L	0.40	1.4	10			05/21/2016 17:13	RLD	EPA 8260C
,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:13	RLD	EPA 8260C
,2-Dichloroethane	2.5	ug/L	0.40	1.4	10			05/21/2016 17:13	RLD	EPA 8260C
,2-Dichloropropane	<0.60	ug/L	0.60	2.0	10			05/21/2016 17:13	RLD	EPA 8260C
,3,5-Trimethylbenzene	<0.60	ug/L	0.60	2.0	10			05/21/2016 17:13	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.60	2.1	10			05/21/2016 17:13	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	t Method
olatile Organic Compounds 8260 (Comments: Suspected	acetone laborato	ry contamination.						
1,3-Dichloropropane	<0.40	ug/L	0.40	1.3	10			05/21/2016 17:13 RLI	D EPA 8260C
1,4-Dichlorobenzene	<0.50	ug/L	0.50	1.6	10			05/21/2016 17:13 RLI	D EPA 8260C
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	10			05/21/2016 17:13 RLI	D EPA 8260C
2-Butanone	<8.0	ug/L	8.0	28	10			05/21/2016 17:13 RLI	D EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:13 RLI	D EPA 8260C
2-Hexanone	<4.0	ug/L	4.0	14	10			05/21/2016 17:13 RLI	D EPA 8260C
4-Chlorotoluene	<0.50	ug/L	0.50	1.8	10			05/21/2016 17:13 RLI	D EPA 8260C
4-Methyl-2-pentanone	<4.0	ug/L	4.0	14	10			05/21/2016 17:13 RLI	D EPA 8260C
Acetone	240	ug/L	9.0	31	10	В		05/21/2016 17:13 RLI	D EPA 8260C
Benzene	<0.60	ug/L	0.60	1.8	10			05/21/2016 17:13 RLI	D EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.4	10			05/21/2016 17:13 RLI	D EPA 8260C
Bromochloromethane	<0.17	ug/L	0.17	0.58	10			05/21/2016 17:13 RLI	D EPA 8260C
Bromodichloromethane	<0.17	ug/L	0.17	0.58	10			05/21/2016 17:13 RLI	D EPA 8260C
Bromoform	<0.18	ug/L	0.18	0.60	10			05/21/2016 17:13 RLI	D EPA 8260C
Bromomethane	<0.90	ug/L	0.90	2.9	10			05/21/2016 17:13 RLI	D EPA 8260C
Carbon disulfide	<1.1	ug/L	1.1	3.8	10			05/21/2016 17:13 RLI	D EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.60	2.0	10			05/21/2016 17:13 RLI	D EPA 8260C
Chlorobenzene	<0.40	ug/L	0.40	1.4	10			05/21/2016 17:13 RLI	D EPA 8260C
Chloroethane	<0.60	ug/L	0.60	2.1	10			05/21/2016 17:13 RLI	D EPA 8260C
Chloroform	<0.60	ug/L	0.60	2.0	10			05/21/2016 17:13 RLI	D EPA 8260C
Chloromethane	<0.50	ug/L	0.50	1.8	10			05/21/2016 17:13 RLI	D EPA 8260C
cis-1,2-Dichloroethene	630	ug/L	12	42	200			05/20/2016 19:41 AG	K EPA 8260C
cis-1,3-Dichloropropene	<0.15	ug/L	0.15	0.49	10			05/21/2016 17:13 RLI	D EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
olatile Organic Compounds 8260 Co	omments: Suspected	l acetone laborator	y contamination.						
Dibromochloromethane	<0.16	ug/L	0.16	0.54	10			05/21/2016 17:13 RLD	EPA 8260C
Dibromomethane	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:13 RLD	EPA 8260C
Pichlorodifluoromethane	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:13 RLD	EPA 8260C
iisopropyl ether	<0.40	ug/L	0.40	1.5	10			05/21/2016 17:13 RLD	EPA 8260C
thylbenzene	<0.60	ug/L	0.60	2.1	10			05/21/2016 17:13 RLD	EPA 8260C
lexachlorobutadiene	<0.70	ug/L	0.70	2.4	10			05/21/2016 17:13 RLD	EPA 8260C
sopropylbenzene	<0.50	ug/L	0.50	1.7	10			05/21/2016 17:13 RLD	EPA 8260C
n & p-Xylene	<1.2	ug/L	1.2	4.0	10			05/21/2016 17:13 RLD	EPA 8260C
lethyl tert-butyl ether	< 0.40	ug/L	0.40	1.5	10			05/21/2016 17:13 RLD	EPA 8260C
lethylene chloride	<0.60	ug/L	0.60	2.1	10			05/21/2016 17:13 RLD	EPA 8260C
-Butylbenzene	<0.50	ug/L	0.50	1.7	10			05/21/2016 17:13 RLD	EPA 8260C
-Propylbenzene	<0.50	ug/L	0.50	1.6	10			05/21/2016 17:13 RLD	EPA 8260C
laphthalene	< 0.50	ug/L	0.50	1.8	10			05/21/2016 17:13 RLD	EPA 8260C
-Xylene	< 0.50	ug/L	0.50	1.6	10			05/21/2016 17:13 RLD	EPA 8260C
-Isopropyltoluene	< 0.60	ug/L	0.60	2.1	10			05/21/2016 17:13 RLD	EPA 8260C
ec-Butylbenzene	<0.50	ug/L	0.50	1.8	10			05/21/2016 17:13 RLD	EPA 8260C
styrene	< 0.50	ug/L	0.50	1.5	10			05/21/2016 17:13 RLD	EPA 8260C
ert-Butylbenzene	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:13 RLD	EPA 8260C
etrachloroethene	<0.60	ug/L	0.60	2.0	10			05/21/2016 17:13 RLD	EPA 8260C
etrahydrofuran	8.8	ug/L	6.0 *	21	10	Z		05/21/2016 17:13 RLD	EPA 8260C
oluene	<0.60	ug/L	0.60	2.1	10			05/21/2016 17:13 RLD	EPA 8260C
ans-1,2-Dichloroethene	27	ug/L	0.60	2.0	10			05/21/2016 17:13 RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.14	ug/L	0.14	0.48	10			05/21/2016 17:13 RLD	EPA 8260C

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CT LAB Sample#: 723501 Sam	nple Description: MW-1	16S					License/	Well #: 4189/026	Sampled:	05/13/2016 1350
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Volatile Organic Compounds 8260	Comments: Suspected	d acetone laboratory	contamination.							
Trichloroethene	<0.30	ug/L	0.30	1.0	10			05/21/2016 17:	13 RLD	EPA 8260C
Trichlorofluoromethane	<0.50	ug/L	0.50	1.8	10			05/21/2016 17:	13 RLD	EPA 8260C
Vinyl acetate	<5.0	ug/L	5.0	16	10			05/21/2016 17:	13 RLD	EPA 8260C
Vinyl chloride	23	ug/L	0.16	0.52	10			05/21/2016 17:	13 RLD	EPA 8260C
CT LAB Sample#: 723502 Sam	nple Description: MW-1	16S					License/	Well #: 4189/026	Sampled:	05/13/2016 1350
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	5.77	mg/L	0.010	0.032	1			05/17/2016 14:	53 NAH	EPA 6010C
Dissolved Manganese	58.6	ug/L	1.6	5.3	1			05/17/2016 14:	53 NAH	EPA 6010C
CT LAB Sample#: 723503 Sam	nple Description: MW-1	13S					License/	Well #: 4189/023	Sampled:	05/13/2016 1435
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	3.78	mg/L	N/A	N/A	1			05/13/2016 00:	00 SUB	
OX/REDOX (Field)	130	MV	N/A	N/A	1			05/13/2016 00:	00 SUB	
Color (Field)	clear		N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
Conductivity (Field)	832	umhos/cm	N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
pH (Field)	7.35	S.U.	N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD
Temperature (Field)	12.29	Deg. C	N/A	N/A	1			05/13/2016 00:	00 SUB	FIELD

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		Sampled: 05/13/2016 1435
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Turbidity (Field)	clear		N/A	N/A	1			05/13/2016 00:0) SUB	FIELD
Inorganic Results										
Alkalinity Total	310	mg/L	5.0	18	1			05/20/2016 15:4	LJS	EPA 310.2
Total Chloride	120	mg/L	2.8	9.6	4			05/18/2016 23:3	2 JJF	EPA 9056A
Total Sulfate	17	mg/L	2.0	7.2	4			05/18/2016 23:3	2 JJF	EPA 9056A
Total Organic Carbon	2.9	mg/L	0.50	1.7	1			05/23/2016 19:3	3 JJF	EPA 9060A
Metals Results										
Total Iron	2.00	mg/L	0.020	0.065	1		05/17/2016 13:00	05/18/2016 16:1	NAH	EPA 6010C
Total Manganese	28.3	ug/L	1.4	4.7	1		05/17/2016 13:00	05/18/2016 16:1	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/20/2016 09:05	05/20/2016 11:0	3 AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 11:0	3 AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/20/2016 09:05	05/20/2016 11:0	3 AMA	Mod RSK 175
Methane	<0.40	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 11:0	3 AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 16:2	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 16:2	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 16:2	2 RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			05/20/2016 16:2	2 RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 16:2	2 RLD	EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			05/20/2016 16:2	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/20/2016 16:2	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 16:2	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 16:2	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/20/2016 16:2	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 16:22	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/20/2016 16:22	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 16:22	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 16:22	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 16:22	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/20/2016 16:22	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 16:22	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 16:22	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 16:22	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 16:22	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 16:22	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 16:22	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 16:22	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 16:22	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/20/2016 16:22	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 16:22	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 16:22	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/20/2016 16:22	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 16:22	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 16:22	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 16:22	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 16:22	RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/20/2016 16:22	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 16:22	RLD	EPA 8260C
Carbon tetrachloride	< 0.060	ug/L	0.060	0.20	1			05/20/2016 16:22	RLD	EPA 8260C

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analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 16:2	2 RLD	EPA 8260C
Chloroethane	< 0.060	ug/L	0.060	0.21	1			05/20/2016 16:2	2 RLD	EPA 8260C
Chloroform	< 0.060	ug/L	0.060	0.20	1			05/20/2016 16:2	2 RLD	EPA 8260C
Chloromethane	< 0.050	ug/L	0.050	0.18	1			05/20/2016 16:2	2 RLD	EPA 8260C
is-1,2-Dichloroethene	< 0.060	ug/L	0.060	0.21	1			05/20/2016 16:2	2 RLD	EPA 8260C
is-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 16:2	2 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 16:2	2 RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 16:2	2 RLD	EPA 8260C
Dichlorodifluoromethane	< 0.060	ug/L	0.060	0.19	1			05/20/2016 16:2	2 RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 16:2	2 RLD	EPA 8260C
thylbenzene	< 0.060	ug/L	0.060	0.21	1			05/20/2016 16:2	2 RLD	EPA 8260C
lexachlorobutadiene	< 0.070	ug/L	0.070	0.24	1			05/20/2016 16:2	2 RLD	EPA 8260C
sopropylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 16:2	2 RLD	EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 16:2	2 RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 16:2	2 RLD	EPA 8260C
Methylene chloride	< 0.060	ug/L	0.060	0.21	1			05/20/2016 16:2	2 RLD	EPA 8260C
-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 16:2	2 RLD	EPA 8260C
-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 16:2	2 RLD	EPA 8260C
laphthalene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 16:2	2 RLD	EPA 8260C
-Xylene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 16:2	2 RLD	EPA 8260C
-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 16:2	2 RLD	EPA 8260C
ec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/20/2016 16:2	2 RLD	EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			05/20/2016 16:2	2 RLD	EPA 8260C
ert-Butylbenzene	< 0.060	ug/L	0.060	0.19	1			05/20/2016 16:2	2 RLD	EPA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 16:2	2 RLD	EPA 8260C

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CT LAB Sample#: 723503 Sam	ole Description: MW-1	13S					License/V	Vell #: 4189/023 Sampled: 05/13/2016 14
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/20/2016 16:22 RLD EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 16:22 RLD EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 16:22 RLD EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/20/2016 16:22 RLD EPA 8260C
Trichloroethene	0.051	ug/L	0.030 *	0.10	1			05/20/2016 16:22 RLD EPA 8260C
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 16:22 RLD EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 16:22 RLD EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			05/20/2016 16:22 RLD EPA 8260C
CT LAB Sample#: 723504 Sam	ole Description: MW-1	13S					License/V	Vell #: 4189/023 Sampled: 05/13/2016 14
OT LAB Campion. 120004 Cam	•							
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Analyte	·	Units	LOD	LOQ	Dilution	Qualifier	•	
Analyte Metals Results	·	Units mg/L	LOD 0.010	LOQ 0.032	Dilution	Qualifier	•	
· ·	Result					Qualifier	•	Date/Time
Analyte Metals Results Dissolved Iron Dissolved Manganese	Result 0.0982	mg/L ug/L	0.010	0.032	1	Qualifier	Date/Time	Date/Time 05/17/2016 15:00 NAH EPA 6010C
Analyte Metals Results Dissolved Iron Dissolved Manganese	0.0982 10.0	mg/L ug/L	0.010	0.032	1	Qualifier Qualifier	Date/Time	Date/Time 05/17/2016 15:00 NAH EPA 6010C 05/17/2016 15:00 NAH EPA 6010C
Analyte Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 723505 Sample	Result 0.0982 10.0 ple Description: MW-1	mg/L ug/L	0.010 1.6	0.032 5.3	1		Date/Time License/W	Date/Time 05/17/2016 15:00 NAH EPA 6010C 05/17/2016 15:00 NAH EPA 6010C Vell #: 4189/032 Sampled: 05/13/2016 15 Analysis Analyst Method
Analyte Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 723505 Sample Analyte	Result 0.0982 10.0 ple Description: MW-1	mg/L ug/L	0.010 1.6	0.032 5.3	1		Date/Time License/W	Date/Time 05/17/2016 15:00 NAH EPA 6010C 05/17/2016 15:00 NAH EPA 6010C Vell #: 4189/032 Sampled: 05/13/2016 15 Analysis Analyst Method
Analyte Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 723505 Sample Analyte Field Results	Result 0.0982 10.0 Die Description: MW-1 Result	mg/L ug/L 3D Units	0.010 1.6 LOD	0.032 5.3 LOQ	1 1 Dilution		Date/Time License/W	Date/Time 05/17/2016 15:00 NAH EPA 6010C 05/17/2016 15:00 NAH EPA 6010C Vell #: 4189/032 Sampled: 05/13/2016 15 Analysis Analyst Method Date/Time
Analyte Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 723505 Sample Analyte Field Results Dissolved Oxygen (Field)	Result 0.0982 10.0 Die Description: MW-1 Result	mg/L ug/L 13D Units	0.010 1.6 LOD	0.032 5.3 LOQ	1 1 Dilution		Date/Time License/W	Date/Time 05/17/2016 15:00 NAH EPA 6010C 05/17/2016 15:00 NAH EPA 6010C Vell #: 4189/032 Sampled: 05/13/2016 15 Analysis Analyst Method Date/Time 05/13/2016 00:00 SUB

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pH (Field)	7.20	S.U.	N/A	N/A	1			05/13/2016 00	00 SUB	FIELD
Temperature (Field)	11.41	Deg. C	N/A	N/A	1			05/13/2016 00	00 SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/13/2016 00	00 SUB	FIELD
Inorganic Results										
Alkalinity Total	360	mg/L	5.0	18	1			05/20/2016 15	43 LJS	EPA 310.2
Total Chloride	190	mg/L	7.0	24	10			05/19/2016 09	22 JJF	EPA 9056A
Total Sulfate	49	mg/L	5.0	18	10			05/19/2016 09	22 JJF	EPA 9056A
Total Organic Carbon	1.8	mg/L	0.50	1.7	1			05/23/2016 19	44 JJF	EPA 9060A
Metals Results										
Total Iron	3.62	mg/L	0.020	0.065	1		05/17/2016 13:00	05/18/2016 16	25 NAH	EPA 6010C
Total Manganese	28.5	ug/L	1.4	4.7	1		05/17/2016 13:00	05/18/2016 16	25 NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/20/2016 09:05	05/20/2016 11	43 AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 11	43 AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/20/2016 09:05	05/20/2016 11	43 AMA	Mod RSK 175
Methane	28	ug/L	0.80	2.4	2		05/20/2016 09:05	05/20/2016 11	53 AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 16	50 RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 16	50 RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 16	50 RLD	EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			05/20/2016 16	50 RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 16	50 RLD	EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			05/20/2016 16	50 RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/20/2016 16	50 RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 16	50 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis <i>A</i> Date/Time	nalyst	Method
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 16:50	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/20/2016 16:50	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 16:50	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/20/2016 16:50	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 16:50	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 16:50	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 16:50	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/20/2016 16:50	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 16:50	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 16:50	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 16:50	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 16:50	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 16:50	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 16:50	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 16:50	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 16:50	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/20/2016 16:50	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 16:50	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 16:50	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/20/2016 16:50	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 16:50	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 16:50	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 16:50	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 16:50	RLD	EPA 8260C
Bromomethane	< 0.090	ug/L	0.090	0.29	1			05/20/2016 16:50	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 16:50	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/20/2016 16:50	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 16:50	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 16:50	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/20/2016 16:50	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 16:50	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.6	ug/L	0.060	0.21	1			05/20/2016 16:50	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 16:50	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 16:50	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 16:50	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 16:50	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 16:50	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 16:50	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/20/2016 16:50	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 16:50	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 16:50	RLD	EPA 8260C
Methyl tert-butyl ether	0.53	ug/L	0.040	0.15	1			05/20/2016 16:50	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/20/2016 16:50	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 16:50	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 16:50	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/20/2016 16:50	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			05/20/2016 16:50	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 16:50	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/20/2016 16:50	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			05/20/2016 16:50	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 16:5	0 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 16:5	0 RLD	EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/20/2016 16:5	0 RLD	EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 16:5	0 RLD	EPA 8260C
ans-1,2-Dichloroethene	< 0.060	ug/L	0.060	0.20	1			05/20/2016 16:5	0 RLD	EPA 8260C
ans-1,3-Dichloropropene	< 0.014	ug/L	0.014	0.048	1			05/20/2016 16:5	0 RLD	EPA 8260C
richloroethene	< 0.030	ug/L	0.030	0.10	1			05/20/2016 16:5	0 RLD	EPA 8260C
richlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			05/20/2016 16:5	0 RLD	EPA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 16:5	0 RLD	EPA 8260C
	0.046	ug/L	0.016 *	0.052	1			05/20/2016 16:5	0 RLD	EPA 8260C
'inyl chloride	0.046	ug/L	0.010	0.002						
	ole Description: MW-1		0.010	0.002			License/V	Nell #: 4189/032	Sampled	: 05/13/2016 1
CT LAB Sample#: 723506 Samp			LOD	LOQ	Dilution	Qualifier	License/V Prep Date/Time	Nell #: 4189/032 Analysis Date/Time	Sampled:	: 05/13/2016 18
CT LAB Sample#: 723506 Samp	ole Description: MW-1	3D			Dilution	Qualifier	Prep	Analysis	·	
CT LAB Sample#: 723506 Samp nalyte letals Results	ole Description: MW-1	3D			Dilution	Qualifier	Prep	Analysis	Analyst	
CT LAB Sample#: 723506 Sample	ole Description: MW-1 Result	3D Units	LOD	LOQ		Qualifier	Prep	Analysis Date/Time	Analyst O7 NAH	
CT LAB Sample#: 723506 Sample	ole Description: MW-1 Result 0.814	3D Units mg/L ug/L	LOD 0.010	LOQ 0.032	1	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst 7 NAH NAH	Method EPA 6010C EPA 6010C
CT LAB Sample#: 723506 Samp Analyte Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 723517 Samp	Result 0.814 29.7	3D Units mg/L ug/L	LOD 0.010	LOQ 0.032	1	Qualifier Qualifier	Prep Date/Time	Analysis Date/Time 05/17/2016 15:0 05/17/2016 15:0	Analyst 7 NAH NAH	Method EPA 6010C
CT LAB Sample#: 723506 Sample Analyte Iletals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 723517 Sample Analyte	nle Description: MW-1 Result 0.814 29.7 ple Description: FILTE	3D Units mg/L ug/L R BLANK	0.010 1.6	LOQ 0.032 5.3	1		Prep Date/Time License/V	Analysis Date/Time 05/17/2016 15:0 05/17/2016 15:0 Well #: 4189/997 Analysis	Analyst O7 NAH O7 NAH Sampled	Method EPA 6010C EPA 6010C : 05/13/2016 1
Analyte Metals Results Dissolved Iron Dissolved Manganese	nle Description: MW-1 Result 0.814 29.7 ple Description: FILTE	3D Units mg/L ug/L R BLANK	0.010 1.6	LOQ 0.032 5.3	1		Prep Date/Time License/V	Analysis Date/Time 05/17/2016 15:0 05/17/2016 15:0 Well #: 4189/997 Analysis	Analyst 7 NAH 7 NAH Sampled Analyst	Method EPA 6010C EPA 6010C : 05/13/2016 1

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CT LAB Sample#: 723517 Sample Description: FILTER BLANK License/Well #: 4189/997 Sampled: 05/13/2016 1550

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 13:58	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/20/2016 13:58	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:58	RLD	EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			05/20/2016 13:58	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:58	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 13:58	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 13:58	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/20/2016 13:58	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 13:58	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/20/2016 13:58	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:58	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:58	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:58	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:58	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:58	RLD	EPA 8260C
1,3-Dichlorobenzene	< 0.060	ug/L	0.060	0.21	1			05/20/2016 13:58	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 13:58	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 13:58	RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 13:58	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 13:58	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:58	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 13:58	RLD	EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/20/2016 13:58	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 13:58	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 13:58	RLD	EPA 8260C

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CT LAB Sample#: 723517 Sample Description: FILTER BLANK License/Well #: 4189/997 Sampled: 05/13/2016 1550

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep		nalyst	Method
							Date/Time	Date/Time		
Benzene	<0.060	ug/L	0.060	0.18	1			05/20/2016 13:58	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:58	RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 13:58	RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 13:58	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 13:58	RLD	EPA 8260C
Bromomethane	< 0.090	ug/L	0.090	0.29	1			05/20/2016 13:58	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 13:58	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:58	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:58	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:58	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:58	RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 13:58	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:58	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 13:58	RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 13:58	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:58	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:58	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 13:58	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:58	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/20/2016 13:58	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 13:58	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 13:58	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 13:58	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:58	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 13:58	RLD	EPA 8260C

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CT LAB Sample#: 723517 Sample Description: FILTER BLANK License/Well #: 4189/997 Sampled: 05/13/2016 1550

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Anal Date/Time	yst	Method
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 13:58 F	RLD	EPA 8260C
Naphthalene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 13:58 F	RLD	EPA 8260C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 13:58 F	RLD	EPA 8260C
o-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:58 F	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/20/2016 13:58 F	RLD	EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			05/20/2016 13:58 F	RLD	EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:58 F	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:58 F	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/20/2016 13:58 F	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:58 F	RLD	EPA 8260C
rans-1,2-Dichloroethene	< 0.060	ug/L	0.060	0.20	1			05/20/2016 13:58 F	RLD	EPA 8260C
rans-1,3-Dichloropropene	< 0.014	ug/L	0.014	0.048	1			05/20/2016 13:58 F	RLD	EPA 8260C
Trichloroethene	0.087	ug/L	0.030 *	0.10	1			05/20/2016 13:58 F	RLD	EPA 8260C
Trichlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			05/20/2016 13:58 F	RLD	EPA 8260C
/inyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 13:58 F	RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			05/20/2016 13:58 F	RLD	EPA 8260C

CT LAB Sample#: 723518 Sample Description: TB-4 License/Well #: 4189/999 Sampled: 05/13/2016

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	< 0.050	ug/L	0.050	0.18	1			05/20/2016 13:01	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:01	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 13:01	RLD	EPA 8260C

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

Project Phase:

Contract #: 2747 Folder #: 119012

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CT LAB Sample#: 723518 Sample Description: TB-4 License/Well #: 4189/999 Sampled: 05/13/2016

nalyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/20/2016 13:01	RLD	EPA 8260C
,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:01	RLD	EPA 8260C
,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/20/2016 13:01	RLD	EPA 8260C
,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:01	RLD	EPA 8260C
,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 13:01	RLD	EPA 8260C
,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 13:01	RLD	EPA 8260C
,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/20/2016 13:01	RLD	EPA 8260C
,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 13:01	RLD	EPA 8260C
,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/20/2016 13:01	RLD	EPA 8260C
,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:01	RLD	EPA 8260C
,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:01	RLD	EPA 8260C
,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:01	RLD	EPA 8260C
,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:01	RLD	EPA 8260C
,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:01	RLD	EPA 8260C
,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:01	RLD	EPA 8260C
,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 13:01	RLD	EPA 8260C
,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 13:01	RLD	EPA 8260C
,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 13:01	RLD	EPA 8260C
-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 13:01	RLD	EPA 8260C
-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:01	RLD	EPA 8260C
-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 13:01	RLD	EPA 8260C
-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 13:01	RLD	EPA 8260C
-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 13:01	RLD	EPA 8260C
cetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 13:01	RLD	EPA 8260C
Senzene	<0.060	ug/L	0.060	0.18	1			05/20/2016 13:01	RLD	EPA 8260C

delivering more than data from your environmental analyses

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

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CT LAB Sample#: 723518 Sample Description: TB-4 License/Well #: 4189/999 Sampled: 05/13/2016

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:01 RLD EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 13:01 RLD EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 13:01 RLD EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 13:01 RLD EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/20/2016 13:01 RLD EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 13:01 RLD EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:01 RLD EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:01 RLD EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:01 RLD EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:01 RLD EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 13:01 RLD EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:01 RLD EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 13:01 RLD EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 13:01 RLD EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:01 RLD EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:01 RLD EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 13:01 RLD EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:01 RLD EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/20/2016 13:01 RLD EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 13:01 RLD EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 13:01 RLD EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 13:01 RLD EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:01 RLD EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 13:01 RLD EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 13:01 RLD EPA 8260C

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-7413001.01

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CT LAB Sample#: 723518 Sample Description: TB-4 License/Well #: 4189/999 Sampled: 05/13/2016

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/20/2016 13:01 RLD	EPA 8260C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 13:01 RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:01 RLD	EPA 8260C
sec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 13:01 RLD	EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			05/20/2016 13:01 RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:01 RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:01 RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/20/2016 13:01 RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:01 RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:01 RLD	EPA 8260C
trans-1,3-Dichloropropene	< 0.014	ug/L	0.014	0.048	1			05/20/2016 13:01 RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			05/20/2016 13:01 RLD	EPA 8260C
Trichlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			05/20/2016 13:01 RLD	EPA 8260C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 13:01 RLD	EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			05/20/2016 13:01 RLD	EPA 8260C

CT LABORATORIES delivering more than data from your environmental analyses

TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

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Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Reason for Revision Incorrect field data were provided for MW-13S.

Submitted by: Brett M. Szymanski Project Manager

608-356-2760

QC Qualifiers

<u>Code</u>	<u>Description</u>	Current CT Laboratories Certifications			
В	Analyte detected in the associated Method Blank.	Kansas NELAP ID# E-10368			
С	Toxicity present in BOD sample.	Kentucky ID# 0023			
D	Diluted Out.	ISO/IEC 17025-2005 A2LA Cert # 3806.01			
E	Safe, No Total Coliform detected.	North Carolina ID# 674			
F	Unsafe, Total Coliform detected, no E. Coli detected.	Wisconsin (WDNR) Chemistry ID# 157066030			
G	Unsafe, Total Coliform detected and E. Coli detected.				
Н	Holding time exceeded.	Wisconsin (DATCP) Bacteriology ID# 105-289			
I	BOD incubator temperature was outside acceptance limits during test period.	DoD-ELAP A2LA 3806.01			
J	Estimated value.	GA EPD Stipulation ID E871111, Expires Annually			
L	Significant peaks were detected outside the chromatographic window.	Louisiana ID # 115843			
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	Virginia ID# 7608			
N	Insufficient BOD oxygen depletion.	Illinois NELAP ID # 002413			
0	Complete BOD oxygen depletion.	Wisconsin (WOSB) ID# WI-5499-WBE			
Р	Concentration of analyte differs more than 40% between primary and confirmation analysis.	· '			
Q	Laboratory Control Sample outside acceptance limits.	Maryland ID# 344			
R	See Narrative at end of report.				
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.				
Т	Sample received with improper preservation or temperature.				
U	Analyte concentration was below detection limit.				
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.				
W	Sample amount received was below program minimum.				
X	Analyte exceeded calibration range.				
Υ	Replicate/Duplicate precision outside acceptance limits.				
Z	Specified calibration criteria was not met.				



QC SUMMARY REPORT

TETRA TECH Project Name: WDNR OCONOMOWOC

ELECTROPLATING

Lab Control Spike Water

Analytical Run #:	126089	Analysis Date:	05/18/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	725459	Analysis Time:	09:33	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro ₋imit:		RPD	RPD Limit
Chloride	14.81	mg/L			15.00	99	80		120		
Sulfate	25.94	mg/L			25.00	104	80		120		

ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Meth	nnd	Rla	nk	Wate	r

Analytical Run #:	126089	Analysis Date:	05/18/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	725460	Analysis Time:	10:07	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	0.7	mg/L		U	0		0.7		
Sulfate	0.5	mg/L		U	0		0.5		

Date Printed: 05/27/2016

ELECTROPLATING

				Lab Contro	l Spike Wate	r				
Analytical Run #: CTLab #: Parent Sample #:	126147 727250	,	is Date: is Time: t:	05/23/2016 12:52 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:			Matrix: Method:	LIQUII SW90	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		53.27	mg/L			50.00	107	85 111		

ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

				Method E	Blank Water					
Analytical Run #: CTLab #: Parent Sample #:	126147 727251	•	is Date: is Time: t:	05/23/2016 13:07 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix: Method:	LIQUII SW90	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		0.5	mg/L		U	0		0.5		

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ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

				Lab Contro	ol Spike Wate	r				
Analytical Run #: CTLab #: Parent Sample #:	126148 727270	•	is Date: is Time: it:	05/23/2016 18:22 JJF	Prep Batch #: Prep Date/Tin Prep Analyst:	ne:		Matrix: Method:	LIQUII SW90	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		53.41	mg/L			50.00	107	85 111		

Date Printed: 05/27/2016

ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

				Method E	Blank Water					
Analytical Run #: CTLab #: Parent Sample #:	126148 727266	•	is Date: is Time: it:	05/23/2016 18:36 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix: Method:	LIQUII SW90	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		0.5	mg/L		U	0		0.5	5	

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ELECTROPLATING

Г							
	Analytical Run #:	126172	Analysis Date:	05/19/2016	Prep Batch #:	Matrix:	GROUND WATER
	CTLab #:	725664	Analysis Time:	09:41	Prep Date/Time:	Method:	SW9056A
	Parent Sample #:	723505	Analyst:	JJF	Prep Analyst:		

	-									
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Total Chloride	187	mg/L	190					2	20	
Total Sulfate	48.7	mg/L	49					1	20	

ELECTROPLATING

Lab Control Spike Water	

Analytical Run #:	126172	Analysis Date:	05/18/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	725475	Analysis Time:	17:37	Prep Date/Time:	Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro Limit		RPD	RPD Limit
Chloride	14.89	mg/L			15.00	99	80		120		
Sulfate	26.18	mg/L			25.00	105	80		120		

ELECTROPLATING

Analytical Run #: CTLab #:	126172 725476	Analysis Date: Analysis Time:	05/18/2016 17:55	Prep Batch #: Prep Date/Time:	Matrix: Method:	LIQUID SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	0.7	mg/L		U	0		0.7		
Sulfate	0.5	mg/L		U	0		0.5		

ELECTROPLATING

Matrix	Spike	Water

Analytical Run #:	126172	Analysis Date:	05/19/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	725665	Analysis Time:	10:00	Prep Date/Time:	Method:	SW9056A
Parent Sample #:	723505	Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent Qualifier(s) sample result	Spike Amount Added	% Recovery	_	ontre ₋imit		RPD	RPD Limit	
Total Chloride	278	mg/L	190		80.0	110	80		120		20
Total Sulfate	130	mg/L	49		80.0	101	80		120		20

ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

	Du	plicate		
Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	GROUND WATER
Analysis Time:	15:34	Prep Date/Time:	Method:	F310.2

C1Lab #:	726538	Analysis Time:	15:34	Prep Date/Time:	Method:	E310.2
Parent Sample #:	723493	Analyst:	DC	Prep Analyst:		

-	-									
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Alkalinity Dissolved	347	mg/L	350					1	10	
Alkalinity Total	347	mg/L	350					1	7	

Date Printed: 05/27/2016

Analytical Run #:

126280

ELECTROPLATING

Duplicate	
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Analytical Run #:	126280	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	726539	Analysis Time:	15:36	Prep Date/Time:	Method:	E310.2
Parent Sample #:	723495	Analyst:	DC	Prep Analyst:		

Analyta	QC	Units	Parant	Qualifier(s)	Spike	%	Control	RPD	RPD
Analyte	sample result	Omis	sample result	Qualifier(S)	Amount Added	Recovery	Limits	KPD	Limit
Alkalinity Dissolved	435	mg/L	440					1	10
Alkalinity Total	435	mg/L	440					1	7

ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

				Lab Contro	l Spike Wate	r				
Analytical Run #: CTLab #: Parent Sample #:	126280 726462	Analysis Date: Analysis Time: Analyst:		05/20/2016 15:31 LJS	Prep Batch #: Prep Date/Time: Prep Analyst:			Matrix: Method:	LIQUID E310.2	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
lkalinity		368.0	mg/L			375.0	98	90 110		

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ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

				Method E	Blank Water					
Analytical Run #:	126280	Analys	sis Date:	05/20/2016	Prep Batch #:			Matrix:	LIQU	ID
CTLab #:	726463	Analys	sis Time:	15:32	Prep Date/Tin	ne:		Method:	E310	.2
Parent Sample #:		Analys	st:	LJS	Prep Analyst:					
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
lkalinity		5	mg/L		U	0			5	

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ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Analytical Run #: CTLab #:	126069 724883	Analysis Date: Analysis Time:	05/17/2016	Prep Batch #: Prep Date/Time:	Matrix: Method:	GROUND WATER
Parent Sample #:	724879	Analyst:	15:39 DC	Prep Analyst:	wethou.	SW6010

Analyte	QC sample result	Units	Parent sample result	` '	Spike Amount Added	% Recovery	Control Limits		RPD	RPD Limit
Iron	2.80	mg/L	0.814		2.00	99	72 1	113	2	18
Manganese	936	ug/L	29.7		1000	91	67 1	121	1	13

Date Printed: 05/27/2016

ELECTROPLATING

Analytical Run #:	126069	Analysis Date:	05/17/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	724879	Analysis Time:	15:14	Prep Date/Time:	Method:	SW6010
Parent Sample #:	723506	Analyst:	DC	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	` ,	Spike Amount Added	% Recovery	Control Limits			RPD	RPD Limit
Iron	2.74	mg/L	0.814		2.00	96	72		113		18
Manganese	945	ug/L	29.7		1000	92	67		121		13

ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Analytical Run #:	126126	Analysis Date:	05/18/2016	Prep Batch #:	57291	Matrix:	LIQUID
CTLab #:	724091	Analysis Time:	14:53	Prep Date/Time:	05/17/2016 13:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.8290	mg/L			1.000	83	80 115		
Manganese	428.0	ug/L			500.0	86	86 112		

Date Printed: 05/27/2016

ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Method	Blank	Water

Analytical Run #: CTLab #:	126126 724090	Analysis Date: Analysis Time:	05/18/2016 14:59	Prep Batch #: Prep Date/Time:	57291 05/17/2016 13:00	Matrix:) Method:	LIQUID SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.02	mg/L		U	0		0.02		
Manganese	1.4	ug/L		U	0		1.4		

Date Printed: 05/27/2016

ELECTROPLATING

Matrix Spike Duplicate Water

Analytical Run #:	126126	Analysis Date:	05/18/2016	Prep Batch #:	57291	Matrix:	GROUND WATER
CTLab #:	724093	Analysis Time:	15:19	Prep Date/Time:	05/17/2016 13:00	Method:	SW6010
Parent Sample #:	724092	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontre ₋imit		RPD	RPD Limit
Iron	0.827	mg/L	BDL		1.00	83	72		118	1	11
Manganese	422	ug/L	BDL		500	84	84		111	1	7

Project Name: WDNR OCONOMOWOC **TETRA TECH**

ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Matrix Spike Water										
Analytical Run #:	126126	Analysis Date:	05/18/2016	Prep Batch #:	57291	Matrix:	GROUND WATER			
CTLab #:	724092	Analysis Time:	15:13	Prep Date/Time:	05/17/2016 13:00	Method:	SW6010			

Analysis Time: 15:13
Analyst: NAH Parent Sample # Pren Analyst 722402 NIAL

Parent Sample #:	723493	Analys	l.	NAH	Prep Analyst.	NAH				
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron		0.819	mg/L	BDL		1.00	82	72 118		
Manganese		418	ug/L	BDL		500	84	84 111		

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #:	126102	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	726317	Analysis Time:	11:36	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imits		RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.89	ug/L			4.00	97	74		127		
1,1,1-Trichloroethane	3.84	ug/L			4.00	96	73		132		
1,1,2,2-Tetrachloroethane	4.18	ug/L			4.00	104	67		129		
1,1,2-Trichloroethane	4.02	ug/L			4.00	100	73		129		
1,1-Dichloroethane	4.06	ug/L			4.00	102	73		129		
1,1-Dichloroethene	4.10	ug/L			4.00	102	73		132		
1,1-Dichloropropene	3.96	ug/L			4.00	99	75		125		
1,2 Dichloroethane-d4	94.0	% Recovery			100	94.0	68		120		
1,2,3-Trichlorobenzene	3.96	ug/L			4.00	99	72		125		
1,2,3-Trichloropropane	4.18	ug/L			4.00	104	68		136		
1,2,4-Trichlorobenzene	4.21	ug/L			4.00	105	67		124		
1,2,4-Trimethylbenzene	4.09	ug/L			4.00	102	77		123		
1,2-Dibromo-3-chloropropane	3.90	ug/L			4.00	98	56		138		
1,2-Dibromoethane	4.06	ug/L			4.00	102	76		127		
1,2-Dichlorobenzene	4.04	ug/L			4.00	101	82		120		
1,2-Dichloroethane	4.15	ug/L			4.00	104	72		134		
1,2-Dichloropropane	4.10	ug/L			4.00	102	76		124		
1,3,5-Trimethylbenzene	4.06	ug/L			4.00	102	77		124		
1,3-Dichlorobenzene	3.94	ug/L			4.00	98	81		120		
1,3-Dichloropropane	4.11	ug/L			4.00	103	76		125		
1,4-Dichlorobenzene	3.92	ug/L			4.00	98	80		120		
2,2-Dichloropropane	4.10	ug/L			4.00	102	54		144		
2-Butanone	42.7	ug/L			40.0	107	57		144		
2-Chlorotoluene	4.07	ug/L			4.00	102	77		123		
2-Hexanone	43.7	ug/L			40.0	109	61		132		
4-Chlorotoluene	4.00	ug/L			4.00	100	76		124		
4-Methyl-2-pentanone	45.9	ug/L			40.0	115	64		135		
Acetone	37.7	ug/L			40.0	94	51		152		
Benzene	4.04	ug/L			4.00	101	80		122		
Bromobenzene	3.97	ug/L			4.00	99	81		120		
Bromochloromethane	3.71	ug/L			4.00	93	78		126		
Bromodichloromethane	3.91	ug/L			4.00	98	67		132		
Bromofluorobenzene	95.0	% Recovery			100	95.0	68		120		
Bromoform	4.00	ug/L			4.00	100	55		132		
Bromomethane	4.65	ug/L			4.00	116	65		141		
Carbon disulfide	7.80	ug/L			8.00	98	61		140		
Carbon tetrachloride	3.85	ug/L			4.00	96	72		133		
Chlorobenzene	4.13	ug/L			4.00	103	80		122		
Chloroethane	4.67	ug/L			4.00	117	71		134		
Chloroform	3.95	ug/L			4.00	99	73		127		
Chloromethane	4.43	ug/L			4.00	111	72		128		
cis-1,2-Dichloroethene	3.92	ug/L			4.00	98	76		127		

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SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Lab Control Spike Water

Analytical Run #:	126102	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	726317	Analysis Time:	11:36	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits			RPD	RPD Limit
cis-1,3-Dichloropropene	3.97	ug/L			4.00	99	72		125		
d8-Toluene	98.0	% Recovery			100	98.0	71		117		
Dibromochloromethane	4.03	ug/L			4.00	101	60		131		
Dibromofluoromethane	98.0	% Recovery			100	98.0	67		121		
Dibromomethane	4.08	ug/L			4.00	102	76		129		
Dichlorodifluoromethane	3.92	ug/L			4.00	98	64		149		
Diisopropyl ether	4.17	ug/L			4.00	104	62		137		
Ethylbenzene	4.22	ug/L			4.00	106	80		121		
Hexachlorobutadiene	4.35	ug/L			4.00	109	71		131		
sopropylbenzene	4.22	ug/L			4.00	106	75		122		
m & p-Xylene	8.34	ug/L			8.00	104	80		121		
Methyl tert-butyl ether	4.12	ug/L			4.00	103	63		135		
Methylene chloride	4.60	ug/L			4.00	115	38		174		
n-Butylbenzene	4.15	ug/L			4.00	104	71		125		
n-Propylbenzene	4.10	ug/L			4.00	102	76		122		
Naphthalene	3.87	ug/L			4.00	97	64		126		
o-Xylene	4.19	ug/L			4.00	105	77		120		
o-Isopropyltoluene	4.31	ug/L			4.00	108	76		122		
sec-Butylbenzene	4.03	ug/L			4.00	101	75		122		
Styrene	4.12	ug/L			4.00	103	76		121		
ert-Butylbenzene	4.12	ug/L			4.00	103	77		120		
Tetrachloroethene	4.05	ug/L			4.00	101	75		127		
Tetrahydrofuran	45.5	ug/L			40.0	114	60		131		
Toluene	4.03	ug/L			4.00	101	80		122		
rans-1,2-Dichloroethene	4.09	ug/L			4.00	102	68		136		
rans-1,3-Dichloropropene	4.05	ug/L			4.00	101	65		126		
richloroethene	3.97	ug/L			4.00	99	78		126		
richlorofluoromethane	4.26	ug/L			4.00	106	70		145		
/inyl acetate	41.0	ug/L			40.0	102	38		152		
/inyl chloride	4.55	ug/L			4.00	114	71		135		

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Method Blank Water

Ī	Analytical Run #: CTLab #:	126102 726416	Analysis Date: Analysis Time:	05/20/2016 12:33	Prep Batch #: Prep Date/Time:	Matrix: Method:	LIQUID SW8260C	
	Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.05	ug/L		U	0		0.05		
1,1,1-Trichloroethane	0.06	ug/L		U	0		0.06		
1,1,2,2-Tetrachloroethane	0.020	ug/L		U	0		0.020		
1,1,2-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1-Dichloroethane	0.06	ug/L		U	0		0.06		
1,1-Dichloroethene	0.07	ug/L		U	0		0.07		
1,1-Dichloropropene	0.06	ug/L		U	0		0.06		
1,2 Dichloroethane-d4	104	% Recovery			100	104	68 120		
1,2,3-Trichlorobenzene	0.05	ug/L		U	0		0.05		
1,2,3-Trichloropropane	0.04	ug/L		U	0		0.04		
1,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,4-Trimethylbenzene	0.05	ug/L		U	0		0.05		
1,2-Dibromo-3-chloropropane	0.03	ug/L		U	0		0.03		
1,2-Dibromoethane	0.04	ug/L		U	0		0.04		
1,2-Dichlorobenzene	0.06	ug/L		U	0		0.06		
1,2-Dichloroethane	0.04	ug/L		U	0		0.04		
1,2-Dichloropropane	0.06	ug/L		U	0		0.06		
1,3,5-Trimethylbenzene	0.06	ug/L		U	0		0.06		
1,3-Dichlorobenzene	0.06	ug/L		U	0		0.06		
1,3-Dichloropropane	0.04	ug/L		U	0		0.04		
1,4-Dichlorobenzene	0.05	ug/L		U	0		0.05		
2,2-Dichloropropane	0.04	ug/L		U	0		0.04		
2-Butanone	0.8	ug/L		U	0		0.8		
2-Chlorotoluene	0.06	ug/L		U	0		0.06		
2-Hexanone	0.4	ug/L		U	0		0.4		
4-Chlorotoluene	0.05	ug/L		U	0		0.05		
4-Methyl-2-pentanone	0.4	ug/L		U	0		0.4		
Acetone	29.1	ug/L			0		0.9		
Benzene	0.06	ug/L		U	0		0.06		
Bromobenzene	0.04	ug/L		U	0		0.04		
Bromochloromethane	0.017	ug/L		U	0		0.017		
Bromodichloromethane	0.017	ug/L		U	0		0.017		
Bromofluorobenzene	100	% Recovery			100	100	68 120		
Bromoform	0.018	ug/L		U	0		0.018		
Bromomethane	0.09	ug/L		U	0		0.09		
Carbon disulfide	0.11	ug/L		U	0		0.11		
Carbon tetrachloride	0.06	ug/L		U	0		0.06		
Chlorobenzene	0.04	ug/L		U	0		0.04		
Chloroethane	0.06	ug/L		U	0		0.06		
Chloroform	0.06	ug/L		U	0		0.06		
Chloromethane	0.05	ug/L		U	0		0.05		
cis-1,2-Dichloroethene	0.06	ug/L		U	0		0.06		

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ELECTROPLATING

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Method Blank Water

Analytical Run #:	126102	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	726416	Analysis Time:	12:33	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.015	ug/L		U	0		0.015		
d8-Toluene	102	% Recovery			100	102	71 117		
Dibromochloromethane	0.016	ug/L		U	0		0.016		
Dibromofluoromethane	100	% Recovery			100	100	67 122		
Dibromomethane	0.06	ug/L		U	0		0.06		
Dichlorodifluoromethane	0.06	ug/L		U	0		0.06		
Diisopropyl ether	0.04	ug/L		U	0		0.04		
Ethylbenzene	0.06	ug/L		U	0		0.06		
Hexachlorobutadiene	0.07	ug/L		U	0		0.07		
sopropylbenzene	0.05	ug/L		U	0		0.05		
n & p-Xylene	0.12	ug/L		U	0		0.12		
Methyl tert-butyl ether	0.04	ug/L		U	0		0.04		
Methylene chloride	0.343	ug/L			0		0.06		
n-Butylbenzene	0.05	ug/L		U	0		0.05		
n-Propylbenzene	0.05	ug/L		U	0		0.05		
Naphthalene	0.05	ug/L		U	0		0.05		
o-Xylene	0.05	ug/L		U	0		0.05		
o-Isopropyltoluene	0.06	ug/L		U	0		0.06		
sec-Butylbenzene	0.05	ug/L		U	0		0.05		
Styrene	0.05	ug/L		U	0		0.05		
ert-Butylbenzene	0.06	ug/L		U	0		0.06		
etrachloroethene	0.06	ug/L		U	0		0.06		
Tetrahydrofuran	0.636	ug/L			0		0.6		
Toluene	0.06	ug/L		U	0		0.06		
rans-1,2-Dichloroethene	0.06	ug/L		U	0		0.06		
rans-1,3-Dichloropropene	0.014	ug/L		U	0		0.014		
richloroethene	0.03	ug/L		U	0		0.03		
richlorofluoromethane	0.05	ug/L		U	0		0.05		
/inyl acetate	0.5	ug/L		U	0		0.5		
/inyl chloride	0.016	ug/L		U	0		0.016		

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analytical Run #: Analysis Date: Prep Batch #: 126102 05/20/2016 Matrix: **GROUND WATER** CTLab #: Analysis Time: Prep Date/Time: Method: 727221 22:03 SW8260C Parent Sample #: 726655 Analyst: RLD Prep Analyst:

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imits		RPD	RPD Limit	
1,1,1,2-Tetrachloroethane	3.44	ug/L	BDL		4.00	86	71		136	6	21	_
1,1,1-Trichloroethane	3.79	ug/L	BDL		4.00	95	77		150	9	20	
1,1,2,2-Tetrachloroethane	3.80	ug/L	BDL		4.00	95	68		139	1	22	
1,1,2-Trichloroethane	3.31	ug/L	BDL		4.00	83	70		139	4	25	
1,1-Dichloroethane	3.95	ug/L	BDL		4.00	99	65		149	11	25	
1,1-Dichloroethene	3.96	ug/L	BDL		4.00	99	56		164	12	24	
1,1-Dichloropropene	4.00	ug/L	BDL		4.00	100	65		146	11	21	
1,2 Dichloroethane-d4	96.0	% Recovery			100	96.0	65		128		7	
1,2,3-Trichlorobenzene	3.74	ug/L	BDL		4.00	94	62		135	7	31	
1,2,3-Trichloropropane	3.63	ug/L	BDL		4.00	91	66		145	2	26	
1,2,4-Trichlorobenzene	3.76	ug/L	BDL		4.00	94	61		132	4	29	
1,2,4-Trimethylbenzene	3.88	ug/L	BDL		4.00	97	1		154	5	36	
1,2-Dibromo-3-chloropropane	3.35	ug/L	BDL		4.00	84	49		144	3	34	
1,2-Dibromoethane	3.49	ug/L	BDL		4.00	87	76		132	4	22	
1,2-Dichlorobenzene	3.71	ug/L	BDL		4.00	93	78		128	6	23	
1,2-Dichloroethane	3.65	ug/L	BDL		4.00	91	70		147	2	21	
1,2-Dichloropropane	3.71	ug/L	BDL		4.00	93	72		138	5	19	
1,3,5-Trimethylbenzene	3.95	ug/L	BDL		4.00	99	1		151	8	34	
1,3-Dichlorobenzene	3.80	ug/L	BDL		4.00	95	78		127	9	22	
1,3-Dichloropropane	3.56	ug/L	BDL		4.00	89	73		136	5	23	
1,4-Dichlorobenzene	3.70	ug/L	BDL		4.00	92	78		127	5	22	
2,2-Dichloropropane	3.67	ug/L	BDL		4.00	92	50		165	6	21	
2-Butanone	34.0	ug/L	BDL		40.0	85	45		160	7	29	
2-Chlorotoluene	3.94	ug/L	BDL		4.00	98	74		130	8	20	
2-Hexanone	36.1	ug/L	BDL		40.0	90	55		143	2	28	
4-Chlorotoluene	3.90	ug/L	BDL		4.00	98	57		131	5	22	
4-Methyl-2-pentanone	37.8	ug/L	BDL		40.0	94	58		146	4	29	
Acetone	38.3	ug/L	BDL		40.0	96	27		172	1	39	
Benzene	3.78	ug/L	BDL		4.00	94	81		134	7	17	
Bromobenzene	3.66	ug/L	BDL		4.00	92	80		127	6	20	
Bromochloromethane	3.40	ug/L	BDL		4.00	85	73		143	3	22	
Bromodichloromethane	3.37	ug/L	BDL		4.00	84	64		139	3	20	
Bromofluorobenzene	104	% Recovery			100	104	67		120		7	
Bromoform	3.23	ug/L	BDL		4.00	81	49		125	6	28	
Bromomethane	3.32	ug/L	BDL		4.00	83	59		167	12	34	
Carbon disulfide	7.98	ug/L	BDL		8.00	100	12		140	5	31	
Carbon tetrachloride	3.83	ug/L	BDL		4.00	96	74		153	8	20	
Chlorobenzene	3.63	ug/L	BDL		4.00	91	82		130	5	21	
Chloroethane	4.81	ug/L	BDL		4.00	120	64		165	7	26	
Chloroform	3.74	ug/L	BDL		4.00	94	73		138	10	18	
Chloromethane	4.27	ug/L	BDL		4.00	107	62		157	7	21	
cis-1,2-Dichloroethene	3.59	ug/L	BDL		4.00	90	75		152	6	21	

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SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Matrix Spike Duplicate Water

Analytical Run #:	126102	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	727221	Analysis Time:	22:03	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	726655	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits			RPD	RPD Limit
cis-1,3-Dichloropropene	3.42	ug/L	BDL		4.00	86	61		129	6	21
d8-Toluene	99.0	% Recovery			100	99.0	60		119		7
Dibromochloromethane	3.42	ug/L	BDL		4.00	86	56		130	6	23
Dibromofluoromethane	100	% Recovery			100	100	65		128		7
Dibromomethane	3.46	ug/L	BDL		4.00	86	71		142	2	21
Dichlorodifluoromethane	4.06	ug/L	BDL		4.00	102	62		196	7	22
Diisopropyl ether	3.78	ug/L	BDL		4.00	94	46		161	5	27
Ethylbenzene	3.80	ug/L	BDL		4.00	95	52		139	5	24
Hexachlorobutadiene	4.21	ug/L	BDL		4.00	105	66		147	2	30
sopropylbenzene	3.83	ug/L	BDL		4.00	96	50		135	8	24
m & p-Xylene	7.55	ug/L	BDL		8.00	94	1		156	7	28
Methyl tert-butyl ether	3.49	ug/L	BDL		4.00	87	46		161	1	33
Methylene chloride	3.68	ug/L	BDL		4.00	92	10		181	5	36
n-Butylbenzene	4.14	ug/L	BDL		4.00	104	46		144	5	24
n-Propylbenzene	4.07	ug/L	BDL		4.00	102	51		139	8	23
Naphthalene	3.43	ug/L	BDL		4.00	86	45		135	5	31
o-Xylene	3.73	ug/L	BDL		4.00	93	11		148	8	26
o-Isopropyltoluene	4.03	ug/L	BDL		4.00	101	18		148	4	27
sec-Butylbenzene	4.09	ug/L	BDL		4.00	102	57		138	7	23
Styrene	3.66	ug/L	BDL		4.00	92	1		159	8	40
ert-Butylbenzene	3.95	ug/L	BDL		4.00	99	74		132	7	22
Tetrachloroethene	3.65	ug/L	BDL		4.00	91	79		144	8	21
Гetrahydrofuran	38.2	ug/L	BDL		40.0	96	51		139	1	28
Toluene	3.72	ug/L	BDL		4.00	93	56		141	8	19
rans-1,2-Dichloroethene	3.77	ug/L	BDL		4.00	94	53		161	8	28
rans-1,3-Dichloropropene	3.35	ug/L	BDL		4.00	84	57		124	3	21
Trichloroethene	3.69	ug/L	BDL		4.00	92	74		138	8	19
Frichlorofluoromethane	4.36	ug/L	BDL		4.00	109	83		174	12	23
/inyl acetate	36.0	ug/L	BDL		40.0	90	0		198	1	25
/inyl chloride	4.93	ug/L	BDL		4.00	123	65		168	10	21

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Matrix Spike Water

Analytical Run #:	126102	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	726655	Analysis Time:	21:35	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	723493	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Contro Limits		RPD	RPD Limit	
1,1,1,2-Tetrachloroethane	3.23	ug/L	BDL		4.00	81	71	136		21	
1,1,1-Trichloroethane	3.46	ug/L	BDL		4.00	86	77	150		20	
1,1,2,2-Tetrachloroethane	3.75	ug/L	BDL		4.00	94	68	139		22	
1,1,2-Trichloroethane	3.46	ug/L	BDL		4.00	86	70	139		25	
1,1-Dichloroethane	3.52	ug/L	BDL		4.00	88	65	149		25	
1,1-Dichloroethene	3.52	ug/L	BDL		4.00	88	56	164		24	
1,1-Dichloropropene	3.59	ug/L	BDL		4.00	90	65	146		21	
1,2 Dichloroethane-d4	93.0	% Recovery			100	93.0	65	128		7	
1,2,3-Trichlorobenzene	3.47	ug/L	BDL		4.00	87	62	135		31	
1,2,3-Trichloropropane	3.54	ug/L	BDL		4.00	88	66	145		26	
1,2,4-Trichlorobenzene	3.62	ug/L	BDL		4.00	90	61	132		29	
1,2,4-Trimethylbenzene	3.68	ug/L	BDL		4.00	92	1	154		36	
1,2-Dibromo-3-chloropropane	3.26	ug/L	BDL		4.00	82	49	144		34	
1,2-Dibromoethane	3.35	ug/L	BDL		4.00	84	76	132		22	
1,2-Dichlorobenzene	3.51	ug/L	BDL		4.00	88	78	128		23	
1,2-Dichloroethane	3.59	ug/L	BDL		4.00	90	70	147		21	
1,2-Dichloropropane	3.53	ug/L	BDL		4.00	88	72	138		19	
1,3,5-Trimethylbenzene	3.64	ug/L	BDL		4.00	91	1	151		34	
1,3-Dichlorobenzene	3.48	ug/L	BDL		4.00	87	78	127		22	
1,3-Dichloropropane	3.40	ug/L	BDL		4.00	85	73	136		23	
1,4-Dichlorobenzene	3.50	ug/L	BDL		4.00	88	78	127		22	
2,2-Dichloropropane	3.44	ug/L	BDL		4.00	86	50	165		21	
2-Butanone	36.3	ug/L	BDL		40.0	91	45	160		29	
2-Chlorotoluene	3.64	ug/L	BDL		4.00	91	74	130		20	
2-Hexanone	37.0	ug/L	BDL		40.0	92	55	143		28	
4-Chlorotoluene	3.70	ug/L	BDL		4.00	92	57	131		22	
4-Methyl-2-pentanone	39.5	ug/L	BDL		40.0	99	58	146		29	
Acetone	38.9	ug/L	BDL		40.0	97	27	172		39	
Benzene	3.52	ug/L	BDL		4.00	88	81	134		17	
Bromobenzene	3.46	ug/L	BDL		4.00	86	80	127		20	
Bromochloromethane	3.29	ug/L	BDL		4.00	82	73	143		22	
Bromodichloromethane	3.27	ug/L	BDL		4.00	82	64	139		20	
Bromofluorobenzene	101	% Recovery			100	101	67	120		7	
Bromoform	3.05	ug/L	BDL		4.00	76	49	125		28	
Bromomethane	2.95	ug/L	BDL		4.00	74	59	167		34	
Carbon disulfide	7.58	ug/L	BDL		8.00	95	12	140		31	
Carbon tetrachloride	3.53	ug/L	BDL		4.00	88	74	153		20	
Chlorobenzene	3.44	ug/L	BDL		4.00	86	82	130		21	
Chloroethane	4.51	ug/L	BDL		4.00	113	64	165		26	
Chloroform	3.38	ug/L	BDL		4.00	84	73	138		18	
Chloromethane	3.98	ug/L	BDL		4.00	100	62	157		21	
cis-1,2-Dichloroethene	3.37	ug/L	BDL		4.00	84	75	152		21	

CTLaboratories LLC 1230 Lange Court • Baraboo, WI 53913 • 608-356-2760 www.ctlaboratories.com

SDG #: 0 Folder #: 119012 Project Number: 117-7413001.01

Matrix Spike Water

Analytical Run #:	126102	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	726655	Analysis Time:	21:35	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	723493	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro Limit:		RPD	RPD Limit
cis-1,3-Dichloropropene	3.20	ug/L	BDL		4.00	80	61		129		21
d8-Toluene	99.0	% Recovery			100	99.0	60		119		7
Dibromochloromethane	3.23	ug/L	BDL		4.00	81	56		130		23
Dibromofluoromethane	98.0	% Recovery			100	98.0	65		128		7
Dibromomethane	3.40	ug/L	BDL		4.00	85	71		142		21
Dichlorodifluoromethane	3.78	ug/L	BDL		4.00	94	62		196		22
Diisopropyl ether	3.61	ug/L	BDL		4.00	90	46		161		27
Ethylbenzene	3.62	ug/L	BDL		4.00	90	52		139		24
Hexachlorobutadiene	4.11	ug/L	BDL		4.00	103	66		147		30
sopropylbenzene	3.54	ug/L	BDL		4.00	88	50		135		24
n & p-Xylene	7.03	ug/L	BDL		8.00	88	1		156		28
Methyl tert-butyl ether	3.45	ug/L	BDL		4.00	86	46		161		33
Methylene chloride	3.51	ug/L	BDL		4.00	88	10		181		36
-Butylbenzene	3.94	ug/L	BDL		4.00	98	46		144		24
n-Propylbenzene	3.74	ug/L	BDL		4.00	94	51		139		23
Naphthalene	3.25	ug/L	BDL		4.00	81	45		135		31
o-Xylene	3.44	ug/L	BDL		4.00	86	11		148		26
o-Isopropyltoluene	3.87	ug/L	BDL		4.00	97	18		148		27
ec-Butylbenzene	3.81	ug/L	BDL		4.00	95	57		138		23
Styrene	3.39	ug/L	BDL		4.00	85	1		159		40
ert-Butylbenzene	3.67	ug/L	BDL		4.00	92	74		132		22
etrachloroethene	3.38	ug/L	BDL		4.00	84	79		144		21
Tetrahydrofuran	38.5	ug/L	BDL		40.0	96	51		139		28
Toluene	3.45	ug/L	BDL		4.00	86	56		141		19
rans-1,2-Dichloroethene	3.50	ug/L	BDL		4.00	88	53		161		28
ans-1,3-Dichloropropene	3.23	ug/L	BDL		4.00	81	57		124		21
richloroethene	3.40	ug/L	BDL		4.00	85	74		138		19
richlorofluoromethane	3.88	ug/L	BDL		4.00	97	83		174		23
/inyl acetate	35.7	ug/L	BDL		40.0	89	0		198		25
/inyl chloride	4.47	ug/L	BDL		4.00	112	65		168		21

ELECTROPLATING

Lab Control Spike Water	er	
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Analytical Run #:	126211	Analysis Date:	05/19/2016	Prep Batch #:	57333	Matrix:	LIQUID
CTLab #:	725422	Analysis Time:	11:32	Prep Date/Time:	05/19/2016 08:30	Method:	RSK175
Parent Sample #:		Analyst:	AMA	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	•		% Recovery	Control Limits			RPD	RPD Limit
Acetylene	2.32	ug/L			3.06	76	70		130		20
Ethane	4.85	ug/L			4.77	102	70		130		20
Ethene	6.98	ug/L			6.79	103	65		124		20
Methane	2.35	ug/L			2.29	103	70		130		20

ELECTROPLATING

Meth	nnd	Rla	nk	Wate	r

г								
	Analytical Run #:	126211	Analysis Date:	05/19/2016	Prep Batch #:	57333	Matrix:	LIQUID
	CTLab #:	725421	Analysis Time:	11:42	Prep Date/Time:	05/19/2016 08:30	Method:	RSK175
	Parent Sample #:		Analyst:	AMA	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Acetylene	0.23	ug/L		U	0		0.23		
Ethane	0.4	ug/L		U	0		0.4		
Ethene	0.5	ug/L		U	0		0.5		
Methane	0.4	ug/L		U	0		0.4		

ELECTROPLATING

Analytical Run #:	126212	Analysis Date:	05/20/2016	Prep Batch #:	57335	Matrix:	LIQUID
CTLab #:	726045	Analysis Time:	10:38	Prep Date/Time:	05/20/2016 09:05	Method:	RSK175
Parent Sample #:		Analyst:	AMA	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro		RPD	RPD Limit
Acetylene	2.31	ug/L			3.07	75	70		130		20
Ethane	4.45	ug/L			4.78	93	70		130		20
Ethene	6.44	ug/L			6.79	95	65		124		20
Methane	2.21	ug/L			2.29	97	70		130		20

ELECTROPLATING

Meth	nnd	RI	ank	Wa	ter

ſ	Analytical Run #:	126212	Analysis Date:	05/20/2016	Prep Batch #:	57335	Matrix:	LIQUID
	CTLab #:	726044	Analysis Time:	10:52		05/20/2016 09:05		RSK175
	Parent Sample #:	720044	,	AMA	•		Metriou.	KSK175
	Farent Sample #.		Analyst:	AIVIA	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Acetylene	0.23	ug/L		U	0		0.23		
Ethane	0.4	ug/L		U	0		0.4		
Ethene	0.5	ug/L		U	0		0.5		
Methane	0.4	ug/L		U	0		0.4		

ELECTROPLATING

Analytical Run #:	126212	Analysis Date:	05/20/2016	Prep Batch #:	57335	Matrix:	GROUND WATER
CTLab #:	725448	Analysis Time:	11:24	Prep Date/Time:	05/20/2016 09:05	Method:	RSK175
Parent Sample #:	725447	Analyst:	AMA	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro _imits		RPD	RPD Limit
Acetylene	2.29	ug/L	BDL		3.07	75	70		130	3	20
Ethane	4.53	ug/L	BDL		4.78	95	70		130	1	20
Ethene	6.54	ug/L	BDL		6.79	96	41		138	2	43
Methane	2.32	ug/L	BDL		2.29	101	70		130	1	20

ELECTROPLATING

Matrix	Spike	Water

Analytical Run #:	126212	Analysis Date:	05/20/2016	Prep Batch #:	57335	Matrix:	GROUND WATER
CTLab #:	725447	Analysis Time:	11:13	Prep Date/Time:	05/20/2016 09:05	Method:	RSK175
Parent Sample #:	723503	Analyst:	AMA	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imits		RPD	RPD Limit
Acetylene	2.37	ug/L	BDL		3.07	77	70		130		
Ethane	4.59	ug/L	BDL		4.78	96	70		130		
Ethene	6.70	ug/L	BDL		6.79	99	41		138		
Methane	2.35	ug/L	BDL		2.29	103	70		130		



Sample Condition Report

Folder #: 119012 Client:

Print Date / Time:

05/16/2016 10:31

1158

1027

TETRA TECH

Received Date / Time / By:

Log-In Date / Time / By:

05/14/2016

Complete?

BNA

Project Phase:

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #:

05/16/2016

JLS

117-7413001.01

Υ

PM: BMS

Υ

Coolers: 5670

Custody Seals Present: Y

Temperature: COC Present:? 2.1 C

On Ice:

Seal Intact?

Numbers:

NONE

Ship Method: FEDEX EXPRESS

Tracking Number:

776342263888

Adequate Packaging: Y

Temp Blank Enclosed?

Υ

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

NO CUSTODY SEALS PRESENT, TAPE WAS INTACT.

Sample ID /	Description	Container Type Cond. Code pH OK	?/Filtered? Tests
723493 1	MW-102S	UNPRES PL 1 Total # of Containers of Type (UNPRES P	/ ALK,Anions L) = 1
723493 1	MW-102S		
		VOA HCL 1	/ GAS,VOC
		VOA HCL 1	/ GAS,VOC
		VOA HCL 1	/ GAS,VOC
		VOA HCL 1	/ GAS,VOC
		VOA HCL 1	/ GAS,VOC
		VOA HCL 1	/ GAS,VOC
		Total # of Containers of Type (VOA HCL)	
723493	MW-102S		
		HNO3 1 Y Total # of Containers of Type (<i>HNO3</i>) =	/ ICP 1
723493	MW-102S	H2SO4 PL 1 Y Total # of Containers of Type (H2SO4 PL	/ TOC) = 1
Sample ID /	Description	Container Type Cond. Code pH OK	?/Filtered? Tests
723494 r	MW-102S		
		HNO3 1 Y Total # of Containers of Type (<i>HNO3</i>) =	/ ICP 1
Sample ID /	Description	Container Type Cond. Code pH OK	?/Filtered? Tests
723495	MW-15B		

119012

		UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
723495	MW-15B	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
723495	MW-15B	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
723495	MW-15B	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	TOC
Sample II	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
723496	MW-15B	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
Sample II	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
723497	MW-15S	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
723497	MW-15S	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
723497	MW-15S	HNO3 1 Y / Total # of Containers of Type (<i>HNO3</i>) = 1	ICP
723497	MW-15S	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	тос
Sample II	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
723498	MW-15S	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP

119012

Sample II	D / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
723499	MW-15D	UNPRES PL	1		ALK,Anions
		Total # of Containe		UNPRES PL) = 1	ALK,AHIOHS
723499	MW-15D				
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		Total # of Containe	ers of Type ($VOA\ HCL\) = 6$	
723499	MW-15D				
		HNO3	1	Υ /	ICP
		Total # of Containe	ers of Type (<i>HNO</i> 3) = 1	
			2. \	•	
723499	MW-15D	H2SO4 PL	1	Υ /	TOC
		Total # of Containe			100
		rotar ii or containt	oro or Typo (11200472) = 1	
Sample II	D / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
700500					
723500	MW-15D	HNO3	1	Υ /	ICP
		Total # of Containe	ers of Type (HNO3) = 1	
Sample II	D / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
723501	MW-16S				
		UNPRES PL	1	/	ALK, Anions
		Total # of Containe	ers of Type (UNPRES PL) = 1	
723501	MW-16S				
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		Total # of Containe	ers of Type ($VOA\ HCL\) = 6$	
723501	MW-16S				
-		HNO3	1	Υ /	ICP
		Total # of Containe		<i>HNO3</i>) = 1	
723501	MW-16S				
		H2SO4 PL	1	Υ /	TOC
		Total # of Containe		H2SO4 PL) = 1	
		i otal # Ol Containe	ers or rype (12304 FL) = 1	

Sample ID	/ Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
723502	MW-16S	HNO3	1	Y /	ICP
		Total # of Contain	ers of Type (<i>F</i>	INO3) = 1	
ample ID	/ Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
23503	MW-13S	UNPRES PL Total # of Contain	1 ers of Type (<i>U</i>	INPRES PL) = 1	ALK,Anions
23503	MW-13S				
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	,	GAS,VOC
		VOA HCL	1		GAS,VOC
		Total # of Contain	ers of Type (V	'OA HCL) = 6	5.15,1.00
23503	MW-13S	11100			100
		HNO3 Total # of Contain	ers of Type (<i>F</i>	(NO3) = 1	ICP
23503	MW-13S	LIOCO A DI			T00
		H2SO4 PL Total # of Contain	ers of Type (<i>F</i>	Y / I2SO4 PL) = 1	TOC
ample ID	/ Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
23504	MW-13S				
		HNO3 Total # of Contain	ers of Type (<i>F</i>	Y / INO3) = 1	ICP
ample ID	/ Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
23505	MW-13D				
		UNPRES PL	1	/	ALK,Anions
		Total # of Contain	ers of Type (<i>U</i>	INPRES PL) = 1	,
23505	MW-13D				
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		Total # of Contain	ers of Type (V	$(OA\ HCL\) = 6$	·
23505	MW-13D				
		HNO3	1	Υ /	ICP
		Total # of Contain	ers of Type (F	<i>INO</i> 3) = 1	
				, ·	

119012

723505	MW-13D				
		H2SO4 PL	1	Υ /	TOC
		Total # of Contain	ers of Type (H2	2SO4 PL) = 1	
Sample ID	/ Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
723506	MW-13D				
		HNO3	1	Υ /	ICP
		Total # of Contain	ers of Type (HI	VO3) = 1	
Sample ID	/ Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
	FILTER BLANK				
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		VOA HCL	1	/	VOC
		Total # of Contain	ers of Type (V	$OA\ HCL\) = 3$	
Sample ID	/ Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
723518	TB-4				
		Trip Blank	1	/	VOC
		Trip Blank	1	/	VOC
			ers of Type (Tr		

Condition CodeCondition Description1Sample Received OK

Rev 8/2014 CHAIN 0	of Cu	STC	DY												Pa	nge of
Company: Tetra Tech Project Contact: Mark Manthey (Telephone: 262 792 1282 Company: TETRA TE		ЖЖЖЖ ЖЖЖ	**************************************	******	Pro	608 Ogran	8-356 n:	-2760 ww	Fa w.ctla	x 608 abora	WI 539:	m C	ompany :ddress :XX	iarki V:Te V:Te X:Ki		ntheyetetratech.cm Fech Corporate Dr Suite M WI 53045
Incation:	PU:			****	Soli	id Wa	RCRA			NPC		In E C	voice To MAIL: ompany ddress:	;* /:		
Sampled By: ASNICY 120waleusk			あ な	ļ				*Party	listea	is resp	onsible fo	r paym	ent of invo	ice as _l	per CT L	aboratories' terms and conditions
Client Special Instructions	ed? Y/N		CP DISSUNCE SET!	Total		38	$\neg \neg$	SES R	EQU	ESTE				# Containers	Designated MS/MSD	Turnaround Time Normal RUSH* Date Needed: Rush analysis requires prior CT Laboratories' approval Surcharges: 24 hr 200%
Matrix: GW – groundwater SW - surface water WW - wastewater DW - drinking water S - soil/sediment SL - sludge A - air M - misc/waste	Filtere	101	20	3	a1/5/10	VOC 8	33							Total #	Design	2-3 days 100% 4-9 days 50%
S - soil/sediment SL - sludge A - air M - misc/waste Collection O V Matrix Comp # Sample ID Description			- !	<u> </u>		F	ill in :	Space	s wit	h Bot	tles per	Test				CT Lab ID # Lab use only
5-13 1030 GW grab mw-1025		1			1	_	3							10		723497494
1 1125 MW-15B	-	1	1	1	1	3	3		-	-				10	i	72349511498
1200 MW-155 1230 MW-15D	-	+	15		1	1 4	3	-						10		723491500
1350 MW. 165			di	1	١	3	3							O		723501/502
M35 MW-135		4	Ī	ì	Ì	3	3		\perp	<u> </u>	$\perp \perp$	<u> </u>		/C		723563/504
1 1515 MW-130		`	1	1	L	3	3	_	_			-		Ţ)	723585/56
1950 Filler Blank		-	+	-		3			+			+-		3		723517
_ DI TB-Y	-	+		<u> -</u>		12		+	+		++	+-		رد		723518
	+-	+	+					\dashv	+	-		-		+		
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Relinquished By: Date/Time 5-13-10 174	15	eived		1							Date/T		. 1		1	Present (Yes No
Received by: U Date/Time	Rec	eivec	l for La	borate	ory by	y: 		X) 	5 /		102	<u> </u>		oler # 6670

CT Laboratories Terms and Conditions

Where a purchaser (Client) places an order for laboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by CTL in advance of the start of the project and in writing.

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submitting a purchase order to CTL in writing, by telephone (confirmed in writing) or by negotiated contract. Whichever option the Client selects for placing the Order, the Order shall not be valid unless it contains sufficient specification to enable CTL to carry out the Client's requirements. It is the policy of CT Laboratories that samples not meeting the acceptance criteria, outlined in the NELAC standards and Section 5.8.3.2 of the DOD QSM, will not be accepted by the laboratory or will be qualified on the final report. All samples submitted to the laboratory must: (1) be accompanied by proper, full and complete documentation, including sample identification, location, date and time of collection, the collector's name, type of preservation (if any), type of sample, any special comments concerning the sample and any additional pertinent fields on the chain-of-custody. In the absence of any of the required information, the laboratory will attempt to contact the client to obtain the information; if unable to obtain the necessary information, the final report will be qualified. (2) be labeled appropriately with a unique sample identification written with indefible ink on water resistant labels. If the laboratory cannot determine the identity of a sample, it will be rejected and the client will be contacted for further instructions or resampling. (3) be in an appropriate sample container. If the container is inappropriate, the client will be contacted for further instructions or resampling. If analysis is possible, the final report will be qualified. CT Laboratories can provide a sampling guide containing approved containers and preservations for analytical methods requested. (4) adhere to specified holding times. If samples are received with less than 1/2 the holding time remaining for the requested test, CT Laboratories will make its best effort to analyze the samples and notify the client. If holding times are exceeded, the final report will be qualified. (5) contain adequate sample volume to perform the necessary testing. If sufficient volume is not present, the sample will be rejected and the client will be contacted for further instructions or resampling. If samples show signs of damage, contamination or inadequate preservation, the client will be notified. If analysis can be performed, the final report will be qualified. If not, the samples will be rejected and the client notified for further instructions or resampling.

1.2 CT Laboratories must be supplied with complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.

1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or labitity for the action or inaction of any carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and defivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is tesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. CTL reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

- 3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.
- 3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may result in a change in cost and tumaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.
- 3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, CTL will proceed with analyses under its standard Quality Manuals then in effect, and CTL will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Acceptance does not occur within this period, CTL will use its best efforts to meet holding times and will proceed with the work provided that, in CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met holding times provided the Initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met. 4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any decertification or revocation of any license, or notice of either, which affects work in progress.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be limited to repeating any services performed, contingent on the Client's providing, at the request of CTL and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by

the Ctient generating Results consistent with the original Results will be at the Ctient's expense. If resampting is necessary, CTL's bability for resampting costs will be firrited to actual cost or one hundred or one hundred fifty dollars (\$150) per sample, whichever is less. 4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages

occasioned by the services performed or by application or use of the reports prepared. 4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavaitability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay CTL for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.

5.3 Should the Results delivered by CTL be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold CTL's right to independently defend its data.

5.4 CTL reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in CTL's sole judgment, it is reasonably necessary, appropriate or advisable to do so, and with the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and insurance are those of the subcontracted laboratory.

5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable Federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at their own expense. CTL reserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated waste disposal vendor(s).

5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records for five (5) years.

5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the ftigation.

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liabety Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period, Comprehensive General and Contractual Liability (limit of \$2,000,000 per occurrence/ aggregate), Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of \$5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices

ORIGIN ID:RRLA (262) MARK MANTHEY TETRA TECH 175 N CORPORATE DRIVE STE 100 BROOKFIELD, WI 53045 UNITED STATES US (262) 792-1282 SHIP DATE: 13MAY16 ACTWGT: 42.00 LB CAD: 1104355/INET3730 DIMS: 26x15x15 IN **BILL SENDER**

BRETT SZYMANSKI CT LABORATORIES 1230 LANGE COURT

540J163231727F

BARABOO WI 53913

(608) 356-2760 INV PO

REF: 117-7413001 01

Fedex.

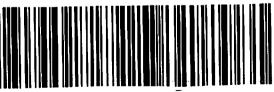
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Szymanski, Brett M

From: Manthey, Mark < Mark. Manthey@tetratech.com>

Sent: 06/16/2016 17:34 To: Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Yes, the value is wrong. The DO value for MW-12M should be 0.93

Thanks again.

Mark A. Manthey, P.G. | Associate Hydrogeologist Office: 262-792-1282 ext. 271 | Fax: 262-792-1310

Mark.Manthey@tetratech.com

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175 N. Corporate Drive | Suite 100 | Brookfield, WI 53045 | www.tetratech.com



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From: Szymanski, Brett M [mailto:BSzymanski@ctlaboratories.com]

Sent: Thursday, June 16, 2016 4:58 PM

To: Manthey, Mark < Mark. Manthey@tetratech.com >

Subject: RE: Correct field parameters data for MW-13S sample

Hello Mark,

In looking at the field data, I'm assuming the DO for MW-12B is also incorrect? It looks like a conductivity reading.

Brett Szymanski

Project Manager CT Laboratories, LLC 1230 Lange Court Baraboo, WI 53913 Phone: 608-356-2760

Fax: 608-356-2766

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From: Manthey, Mark [mailto:Mark.Manthey@tetratech.com]

Sent: 06/16/2016 4:49 PM

To: Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Sorry again!

Found another error for the Dissolved Oxygen value for the TW-2021 sample (Sample ID = 75710). The correct DO value is 2.55 mg/L

725710 TW	/-2021 Dissolved Oxyg	gen (Field) mg/L	5/18/2016	2.55
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Mark A. Manthey, P.G. | Associate Hydrogeologist

Office: 262-792-1282 ext. 271 | Fax: 262-792-1310

Mark.Manthey@tetratech.com

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From: Szymanski, Brett M [mailto:BSzymanski@ctlaboratories.com]

Sent: Thursday, June 16, 2016 4:44 PM

To: Manthey, Mark < Mark. Manthey@tetratech.com>

Subject: RE: Correct field parameters data for MW-13S sample

Hello Mark,

I'll get these field data updated with the correct information and send out revised analytical reports and EDDs by Monday, June 20th.

Have a good afternoon,

Brett Szymanski

Project Manager CT Laboratories, LLC 1230 Lange Court Baraboo, WI 53913 Phone: 608-356-2760

Fax: 608-356-2766 www.ctlaboratories.com

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From: Manthey, Mark [mailto:Mark.Manthey@tetratech.com]

Sent: 06/16/2016 4:41 PM **To:** Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Hi Brett,

Sorry about this, but I found another error in the field parameters data I sent you. It is for the MW-101S sample. The correct field data is listed below:

Sample	Well ID	Analyte	Units	Date	Result
721951	MW-101S	Color (Field)		5/10/2016	Clear
721951	MW-101S	Conductivity (Field)	umhos/cm	5/10/2016	3180
		Dissolved Oxygen			
721951	MW-101S	(Field)	mg/L	5/10/2016	2.62
721951	MW-101S	OX/REDOX (Field)	MV	5/10/2016	336
721951	MW-101S	pH (Field)	S.U.	5/10/2016	6.82
721951	MW-101S	Temperature (Field)	Deg. C	5/10/2016	9.98
721951	MW-101S	Turbidity (Field)		5/10/2016	clear

Thanks again.

Mark A. Manthey, P.G. | Associate Hydrogeologist

Office: 262-792-1282 ext. 271 | Fax: 262-792-1310 Mark.Manthey@tetratech.com

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From: Manthey, Mark

Sent: Thursday, June 16, 2016 11:28 AM

To: 'BSzymanski@ctlaboratories.com' < <u>BSzymanski@ctlaboratories.com</u>>

Subject: Correct field parameters data for MW-13S sample

Brett,

Per our telephone conversation, below are the correct field parameters readings for the MW-13S sample:

Sample Date: 5/13/2016

Field Parameters

Dissolved Oxygen (DO) = 3.78 mg/L

Oxidation Reduction Potential = 130 millivolts

pH = 7.35

Specific Conductivity = 832 umhos/cm

Temperature = 12.29 deg-C Turbidity = 30.2 ntu

Thanks.

Mark A. Manthey, P.G. | Associate Hydrogeologist Office: 262-792-1282 ext. 271 | Fax: 262-792-1310 Mark.Manthey@tetratech.com

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delivering more than data from your environmental analyses

ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.



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REVISED ANALYTICAL REPORT

TETRA TECH

MARK MANTHEY

175 N CORPORATE DRIVE

SUITE 100

BROOKFIELD, WI 53045

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project Phase: Arrival Temperature: 3.8

Contract #: 2747 Report Date: 06/08/2016

Project #: 117-741300.01 Date Received: 05/19/2016

Folder #: 119119 Reprint Date: 06/17/2016

Purchase Order #: Revision Date 06/17/2016

CT LAB Sample#: 725682 Sample Description: MW-102D License/Well #: 4189/038 Sampled: 05/18/2016 1010

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	0.29	mg/L	N/A	N/A	1			05/18/2016 00:00	SUB	
OX/REDOX (Field)	-2	MV	N/A	N/A	1			05/18/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Conductivity (Field)	1400	umhos/cm	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
pH (Field)	6.79	S.U.	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Temperature (Field)	11.56	Deg. C	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/18/2016 00:00) SUB	FIELD
Inorganic Results										
Alkalinity Total	460	mg/L	5.0	18	1			05/20/2016 15:56	S LJS	EPA 310.2
Total Chloride	220	mg/L	7.0	24	10			05/19/2016 15:44	l JJF	EPA 9056A
Total Sulfate	100	mg/L	5.0	18	10			05/19/2016 15:44	JJF	EPA 9056A
Total Organic Carbon	2.3	mg/L	0.50	1.7	1			05/23/2016 19:56) JJF	EPA 9060A
Metals Results										
Total Iron	1.40	mg/L	0.020	0.065	1		05/23/2016 12:00	05/25/2016 22:39) NAH	EPA 6010C

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-741300.01

Project Phase:

Contract #: 2747 Folder #: 119119

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CT LAB Sample#: 725682 Sample I	Description: MW-102D	License/Well #: 4189/038	Sampled: 05/18/2016 1010
---------------------------------	----------------------	--------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Anal Date/Time	yst Method
Total Manganese	37.7	ug/L	1.4	4.7	1		05/23/2016 12:00	05/25/2016 22:39 N	IAH EPA 6010C
Organic Results									
Acetylene	<0.23	ug/L	0.23	0.77	1		05/20/2016 09:05	05/20/2016 12:06 A	MA Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 12:06 A	MA Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/20/2016 09:05	05/20/2016 12:06 A	MA Mod RSK 175
Methane	12	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 12:06 A	MA Mod RSK 175
Volatile Organic Compounds 8260 Cor	mments: Suspected	l acetone laborator	ry contamination.						
4.4.4.0 Totacabless atheres	0.05		0.05	0.00	_			05/04/0040 40 44 5	N.D. EDA 00000
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.90	5				RLD EPA 8260C
1,1,1-Trichloroethane	<0.30	ug/L	0.30	1.1	5				RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.10	ug/L	0.10	0.33	5				RLD EPA 8260C
1,1,2-Trichloroethane	<0.25	ug/L	0.25 0.30	0.85 0.95	5				RLD EPA 8260C RLD EPA 8260C
1,1-Dichloroethane 1,1-Dichloroethene	<0.30 <0.35	ug/L	0.30	0.95 1.2	5 5				RLD EPA 8260C RLD EPA 8260C
,		ug/L							RLD EPA 8260C
1,1-Dichloropropene	<0.30	ug/L	0.30	0.95 0.80	5 5				RLD EPA 8260C
1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	<0.25 <0.20	ug/L	0.25 0.20	0.80	5 5				RLD EPA 8260C
1,2,3-1 richloropropane 1,2,4-Trichlorobenzene	<0.20 <0.20	ug/L	0.20	0.65	5 5				RLD EPA 8260C
1,2,4-Trimethylbenzene	<0.20 <0.25	ug/L	0.20	0.85	5 5				RLD EPA 8260C
1,2-Dibromo-3-chloropropane	<0.25 <0.15	ug/L ug/L	0.25	0.50	5 5				RLD EPA 8260C
1,2-Dibromo-3-chioropropane	<0.15	_	0.15	0.50	5 5				RLD EPA 8260C
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.70	5 5				RLD EPA 8260C
·		ug/L							
1,2-Dichloroethane	0.28	ug/L	0.20 *	0.70	5				
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	5				RLD EPA 8260C
1,3,5-Trimethylbenzene	<0.30	ug/L	0.30	1.0	5			05/21/2016 16:44 F	RLD EPA 8260C

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TETRA TECH

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Project #: 117-741300.01

Project Phase:

Contract #: 2747 Folder #: 119119

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Volatile Organic Compounds 8260 C	Comments: Suspected	acetone laborato	ory contamination.						
1,3-Dichlorobenzene	<0.30	ug/L	0.30	1.1	5			05/21/2016 16:44 RLD	EPA 8260C
1,3-Dichloropropane	<0.20	ug/L	0.20	0.65	5			05/21/2016 16:44 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.25	ug/L	0.25	0.80	5			05/21/2016 16:44 RLD	EPA 8260C
2,2-Dichloropropane	<0.20	ug/L	0.20	0.60	5			05/21/2016 16:44 RLD	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	5			05/21/2016 16:44 RLD	EPA 8260C
2-Chlorotoluene	<0.30	ug/L	0.30	0.95	5			05/21/2016 16:44 RLD	EPA 8260C
2-Hexanone	<2.0	ug/L	2.0	7.0	5			05/21/2016 16:44 RLD	EPA 8260C
1-Chlorotoluene	<0.25	ug/L	0.25	0.90	5			05/21/2016 16:44 RLD	EPA 8260C
1-Methyl-2-pentanone	<2.0	ug/L	2.0	7.0	5			05/21/2016 16:44 RLD	EPA 8260C
Acetone	110	ug/L	4.5	16	5	В		05/21/2016 16:44 RLD	EPA 8260C
Benzene	<0.30	ug/L	0.30	0.90	5			05/21/2016 16:44 RLD	EPA 8260C
Bromobenzene	<0.20	ug/L	0.20	0.70	5			05/21/2016 16:44 RLD	EPA 8260C
Bromochloromethane	<0.085	ug/L	0.085	0.29	5			05/21/2016 16:44 RLD	EPA 8260C
Bromodichloromethane	<0.085	ug/L	0.085	0.29	5			05/21/2016 16:44 RLD	EPA 8260C
Bromoform	<0.090	ug/L	0.090	0.30	5			05/21/2016 16:44 RLD	EPA 8260C
Bromomethane	<0.45	ug/L	0.45	1.5	5			05/21/2016 16:44 RLD	EPA 8260C
Carbon disulfide	<0.55	ug/L	0.55	1.9	5			05/21/2016 16:44 RLD	EPA 8260C
Carbon tetrachloride	<0.30	ug/L	0.30	1.0	5			05/21/2016 16:44 RLD	EPA 8260C
Chlorobenzene	<0.20	ug/L	0.20	0.70	5			05/21/2016 16:44 RLD	EPA 8260C
Chloroethane	<0.30	ug/L	0.30	1.1	5			05/21/2016 16:44 RLD	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.0	5			05/21/2016 16:44 RLD	EPA 8260C
Chloromethane	<0.25	ug/L	0.25	0.90	5			05/21/2016 16:44 RLD	EPA 8260C
cis-1,2-Dichloroethene	28	ug/L	0.30	1.1	5			05/21/2016 16:44 RLD	EPA 8260C

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CT LAB Sample#: 725682	Sample Description: MW-102D	License/Well #: 4189/038	Sampled: 05/18/2016 1010

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Anal Date/Time	st Method
olatile Organic Compounds 8260 C	Comments: Suspected	acetone laborato	ry contamination.						
cis-1,3-Dichloropropene	<0.075	ug/L	0.075	0.25	5			05/21/2016 16:44 F	LD EPA 8260C
Dibromochloromethane	<0.080	ug/L	0.080	0.27	5			05/21/2016 16:44 F	LD EPA 8260C
Dibromomethane	<0.30	ug/L	0.30	0.95	5			05/21/2016 16:44 F	LD EPA 8260C
Dichlorodifluoromethane	<0.30	ug/L	0.30	0.95	5			05/21/2016 16:44 F	LD EPA 8260C
Diisopropyl ether	<0.20	ug/L	0.20	0.75	5			05/21/2016 16:44 F	LD EPA 8260C
thylbenzene	<0.30	ug/L	0.30	1.1	5			05/21/2016 16:44 F	LD EPA 8260C
lexachlorobutadiene	<0.35	ug/L	0.35	1.2	5			05/21/2016 16:44 F	LD EPA 8260C
sopropylbenzene	<0.25	ug/L	0.25	0.85	5			05/21/2016 16:44 F	LD EPA 8260C
ı & p-Xylene	<0.60	ug/L	0.60	2.0	5			05/21/2016 16:44 F	LD EPA 8260C
ethyl tert-butyl ether	0.98	ug/L	0.20	0.75	5			05/21/2016 16:44 F	LD EPA 8260C
ethylene chloride	<0.30	ug/L	0.30	1.1	5			05/21/2016 16:44 F	LD EPA 8260C
-Butylbenzene	<0.25	ug/L	0.25	0.85	5			05/21/2016 16:44 F	LD EPA 8260C
-Propylbenzene	<0.25	ug/L	0.25	0.80	5			05/21/2016 16:44 F	LD EPA 8260C
laphthalene	<0.25	ug/L	0.25	0.90	5			05/21/2016 16:44 F	LD EPA 8260C
-Xylene	<0.25	ug/L	0.25	0.80	5			05/21/2016 16:44 F	LD EPA 8260C
-Isopropyltoluene	<0.30	ug/L	0.30	1.1	5			05/21/2016 16:44 F	LD EPA 8260C
ec-Butylbenzene	<0.25	ug/L	0.25	0.90	5			05/21/2016 16:44 F	LD EPA 8260C
tyrene	<0.25	ug/L	0.25	0.75	5			05/21/2016 16:44 F	LD EPA 8260C
rt-Butylbenzene	<0.30	ug/L	0.30	0.95	5			05/21/2016 16:44 F	LD EPA 8260C
etrachloroethene	<0.30	ug/L	0.30	1.0	5			05/21/2016 16:44 F	LD EPA 8260C
etrahydrofuran	<3.0	ug/L	3.0	11	5			05/21/2016 16:44 F	LD EPA 8260C
oluene	<0.30	ug/L	0.30	1.1	5			05/21/2016 16:44 F	LD EPA 8260C
ans-1,2-Dichloroethene	0.72	ug/L	0.30 *	1.0	5			05/21/2016 16:44 F	LD EPA 8260C

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CT LAB Sample#: 725682 Sample	ole Description: MW-1	02D					License/V	Vell #: 4189/038	Sampled	l: 05/18/2016 101
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
/olatile Organic Compounds 8260 C	Comments: Suspected	l acetone laboratory	contamination.							
trans-1,3-Dichloropropene	<0.070	ug/L	0.070	0.24	5			05/21/2016 16:	44 RLD	EPA 8260C
Trichloroethene	0.24	ug/L	0.15 *	0.50	5			05/21/2016 16:	44 RLD	EPA 8260C
Trichlorofluoromethane	<0.25	ug/L	0.25	0.90	5			05/21/2016 16:	44 RLD	EPA 8260C
Vinyl acetate	<2.5	ug/L	2.5	8.0	5			05/21/2016 16:	44 RLD	EPA 8260C
Vinyl chloride	0.32	ug/L	0.080	0.26	5			05/21/2016 16:	44 RLD	EPA 8260C
CT LAB Sample#: 725688 Sample	ole Description: MW-1	02D					License/V	Vell #: 4189/038	Sampled	l: 05/18/2016 101
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
	Result	Units	LOD	LOQ	Dilution	Qualifier	•		Analyst	Method
Metals Results	Result	Units mg/L	LOD 0.010	0.032	Dilution 1	Qualifier	•			Method EPA 6010C
Metals Results Dissolved Iron Dissolved Manganese						Qualifier	•	Date/Time	53 NAH	
Metals Results Dissolved Iron Dissolved Manganese	1.54	mg/L ug/L	0.010	0.032	1	Qualifier	Date/Time	Date/Time 05/20/2016 16:	53 NAH 53 NAH	EPA 6010C EPA 6010C
Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 725689 Sample	1.54 34.2	mg/L ug/L	0.010	0.032	1	Qualifier Qualifier	Date/Time	05/20/2016 16: 05/20/2016 16:	53 NAH 53 NAH	EPA 6010C
Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 725689 Sample Analyte	1.54 34.2 ble Description: MW-1	mg/L ug/L 03S	0.010 1.6	0.032 5.3	1		Date/Time License/V	05/20/2016 16: 05/20/2016 16: Vell #: 4189/039	53 NAH 53 NAH Sampled	EPA 6010C EPA 6010C I: 05/18/2016 105
Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 725689 Sample Analyte Field Results	1.54 34.2 ble Description: MW-1	mg/L ug/L 03S	0.010 1.6	0.032 5.3	1		Date/Time License/V	05/20/2016 16: 05/20/2016 16: Vell #: 4189/039	53 NAH 53 NAH Sampled	EPA 6010C EPA 6010C I: 05/18/2016 105
Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 725689 Sample Analyte Field Results Dissolved Oxygen (Field)	1.54 34.2 ble Description: MW-1 Result	mg/L ug/L 03S Units	0.010 1.6 LOD	0.032 5.3 LOQ	1 1 Dilution		Date/Time License/V	Date/Time 05/20/2016 16: 05/20/2016 16: Vell #: 4189/039 Analysis Date/Time	53 NAH 53 NAH Samplec Analyst	EPA 6010C EPA 6010C I: 05/18/2016 105
Metals Results Dissolved Iron Dissolved Manganese CT LAB Sample#: 725689 Sample Analyte Field Results Dissolved Oxygen (Field) DX/REDOX (Field)	1.54 34.2 ble Description: MW-1 Result	mg/L ug/L 03S Units	0.010 1.6 LOD	0.032 5.3 LOQ	1 1 Dilution		Date/Time License/V	05/20/2016 16: 05/20/2016 16: Well #: 4189/039 Analysis Date/Time	53 NAH 53 NAH Sampled Analyst 00 SUB 00 SUB	EPA 6010C EPA 6010C E: 05/18/2016 108
Metals Results Dissolved Iron Dissolved Manganese	1.54 34.2 ble Description: MW-1 Result 5.74 213	mg/L ug/L 03S Units	0.010 1.6 LOD	0.032 5.3 LOQ N/A N/A	1 1 Dilution		Date/Time License/V	Date/Time 05/20/2016 16: 05/20/2016 16: Vell #: 4189/039 Analysis Date/Time 05/18/2016 00: 05/18/2016 00:	53 NAH 53 NAH Samplec Analyst 00 SUB 00 SUB 00 SUB	EPA 6010C EPA 6010C : 05/18/2016 105 Method

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CT LAB Sample#: 725689 Sample Description: MW-103S License/Well #: 4189/039 Sampled: 05/18/2016 1050

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Temperature (Field)	10.40	Deg. C	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
norganic Results										
Alkalinity Total	490	mg/L	5.0	18	1			05/20/2016 15:57	LJS	EPA 310.2
Total Chloride	57	mg/L	3.5	12	5			05/19/2016 16:03	JJF	EPA 9056A
Total Sulfate	69	mg/L	2.5	9.0	5			05/19/2016 16:03	JJF	EPA 9056A
Total Organic Carbon	6.9	mg/L	0.50	1.7	1			05/23/2016 20:07	JJF	EPA 9060A
Metals Results										
Total Iron	0.0206	mg/L	0.020 *	0.065	1		05/23/2016 12:00	05/25/2016 23:23	NAH	EPA 6010C
Total Manganese	394	ug/L	1.4	4.7	1		05/23/2016 12:00	05/25/2016 23:23	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/20/2016 09:05	05/20/2016 12:23	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 12:23	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/20/2016 09:05	05/20/2016 12:23	AMA	Mod RSK 175
Methane	88	ug/L	4.0	12	10		05/20/2016 09:05	05/20/2016 12:34	AMA	Mod RSK 175
Volatile Organic Compounds 8260 Co	omments: Suspected	acetone laborator	y contamination.							
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50	1.8	10			05/21/2016 17:42	RLD	EPA 8260C
1,1,1-Trichloroethane	30	ug/L	0.60	2.1	10			05/21/2016 17:42	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.65	10			05/21/2016 17:42	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.50	ug/L	0.50	1.7	10			05/21/2016 17:42	RLD	EPA 8260C
1,1-Dichloroethane	7.6	ug/L	0.60	1.9	10			05/21/2016 17:42	RLD	EPA 8260C
1,1-Dichloroethene	4.0	ug/L	0.70	2.3	10			05/21/2016 17:42	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:42	RLD	EPA 8260C

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E-Trichloropropane	Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Se Trichloropropane	Volatile Organic Compounds 8260 Cor	mments: Suspected	acetone laborator	ry contamination.						
-Trichlorobenzene	1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	10			05/21/2016 17:42 RLD	EPA 8260C
-Trimethylbenzene	1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.3	10			05/21/2016 17:42 RLD	EPA 8260C
Dibromo-3-chloropropane \$0.30	1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	10			05/21/2016 17:42 RLD	EPA 8260C
2016 2016	1,2,4-Trimethylbenzene	<0.50	ug/L	0.50	1.7	10			05/21/2016 17:42 RLD	EPA 8260C
20 20 20 20 20 20 20 20	1,2-Dibromo-3-chloropropane	<0.30	ug/L	0.30	1.0	10			05/21/2016 17:42 RLD	EPA 8260C
1.2 Ug/L 0.40 * 1.4 10 0.5/21/2016 17:42 RLD EPA 82	1,2-Dibromoethane	<0.40	ug/L	0.40	1.4	10			05/21/2016 17:42 RLD	EPA 8260C
Solito S	1,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:42 RLD	EPA 8260C
STRIMENT 1,2-Dichloroethane	1.2	ug/L	0.40 *	1.4	10			05/21/2016 17:42 RLD	EPA 8260C	
Dichlorobenzene <0.60	1,2-Dichloropropane	<0.60	ug/L	0.60	2.0	10			05/21/2016 17:42 RLD	EPA 8260C
Dichloropropane Co.40 Ug/L Co.50 Ug/L Co.50 L6 L7:42 RLD EPA 82 Co.50 Ug/L Co.50 L6 L7:42 RLD EPA 82 Co.50 Ug/L Co.50 L6 L7:42 RLD EPA 82 Co.50 C7:42 RLD EPA 82 C7:42 C7:42	1,3,5-Trimethylbenzene	<0.60	ug/L	0.60	2.0	10			05/21/2016 17:42 RLD	EPA 8260C
Dichlorobenzene	1,3-Dichlorobenzene	<0.60	ug/L	0.60	2.1	10			05/21/2016 17:42 RLD	EPA 8260C
Dichloropropane	1,3-Dichloropropane	<0.40	ug/L	0.40	1.3	10			05/21/2016 17:42 RLD	EPA 8260C
tanone	1,4-Dichlorobenzene	<0.50	ug/L	0.50	1.6	10			05/21/2016 17:42 RLD	EPA 8260C
Second S	2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	10			05/21/2016 17:42 RLD	EPA 8260C
exanone	2-Butanone	<8.0	ug/L	8.0	28	10			05/21/2016 17:42 RLD	EPA 8260C
Section of the control of the cont	2-Chlorotoluene	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:42 RLD	EPA 8260C
ethyl-2-pentanone	2-Hexanone	<4.0	ug/L	4.0	14	10			05/21/2016 17:42 RLD	EPA 8260C
one 250 ug/L 9.0 31 10 B 05/21/2016 17:42 RLD EPA 82 zene <0.60 ug/L 0.60 1.8 10 05/21/2016 17:42 RLD EPA 82 nobenzene <0.40 ug/L 0.40 1.4 10 05/21/2016 17:42 RLD EPA 82 nobenzene	4-Chlorotoluene	<0.50	ug/L	0.50	1.8	10			05/21/2016 17:42 RLD	EPA 8260C
zene <0.60 ug/L 0.60 1.8 10 05/21/2016 17:42 RLD EPA 82 nobenzene <0.40 ug/L 0.40 1.4 10 05/21/2016 17:42 RLD EPA 82	4-Methyl-2-pentanone	<4.0	ug/L	4.0	14	10			05/21/2016 17:42 RLD	EPA 8260C
nobenzene <0.40 ug/L 0.40 1.4 10 05/21/2016 17:42 RLD EPA 82	Acetone	250	ug/L	9.0	31	10	В		05/21/2016 17:42 RLD	EPA 8260C
	Benzene	<0.60	ug/L	0.60	1.8	10			05/21/2016 17:42 RLD	EPA 8260C
ochloromethane <0.17 ug/l 0.17 0.58 10 05/21/2016 17:42 RLD EPA 8	Bromobenzene	<0.40	ug/L	0.40	1.4	10			05/21/2016 17:42 RLD	EPA 8260C
100 1100 1100 1100 100 100 100 100 100	Bromochloromethane	<0.17	ug/L	0.17	0.58	10			05/21/2016 17:42 RLD	EPA 8260C

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CT LAB Sample#: 725689	Sample Description: MW-103S	License/Well #: 4189/039	Sampled: 05/18/2016 1050
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Anal Date/Time	st Method
olatile Organic Compounds 8260 Com	ments: Suspected	acetone laborator	y contamination.						
Bromodichloromethane	<0.17	ug/L	0.17	0.58	10			05/21/2016 17:42 R	LD EPA 8260C
Bromoform	<0.18	ug/L	0.18	0.60	10			05/21/2016 17:42 F	LD EPA 8260C
Bromomethane	<0.90	ug/L	0.90	2.9	10			05/21/2016 17:42 R	LD EPA 8260C
Carbon disulfide	<1.1	ug/L	1.1	3.8	10			05/21/2016 17:42 R	LD EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.60	2.0	10			05/21/2016 17:42 R	LD EPA 8260C
Chlorobenzene	0.86	ug/L	0.40 *	1.4	10			05/21/2016 17:42 R	LD EPA 8260C
Chloroethane	1.3	ug/L	0.60 *	2.1	10			05/21/2016 17:42 R	LD EPA 8260C
Chloroform	<0.60	ug/L	0.60	2.0	10			05/21/2016 17:42 R	LD EPA 8260C
Chloromethane	<0.50	ug/L	0.50	1.8	10			05/21/2016 17:42 R	LD EPA 8260C
is-1,2-Dichloroethene	33	ug/L	0.60	2.1	10			05/21/2016 17:42 R	LD EPA 8260C
is-1,3-Dichloropropene	<0.15	ug/L	0.15	0.49	10			05/21/2016 17:42 R	LD EPA 8260C
Dibromochloromethane	<0.16	ug/L	0.16	0.54	10			05/21/2016 17:42 R	LD EPA 8260C
Dibromomethane	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:42 R	LD EPA 8260C
Dichlorodifluoromethane	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:42 R	LD EPA 8260C
Diisopropyl ether	<0.40	ug/L	0.40	1.5	10			05/21/2016 17:42 R	LD EPA 8260C
Ethylbenzene	<0.60	ug/L	0.60	2.1	10			05/21/2016 17:42 R	LD EPA 8260C
Hexachlorobutadiene	<0.70	ug/L	0.70	2.4	10			05/21/2016 17:42 R	LD EPA 8260C
sopropylbenzene	<0.50	ug/L	0.50	1.7	10			05/21/2016 17:42 R	LD EPA 8260C
n & p-Xylene	<1.2	ug/L	1.2	4.0	10			05/21/2016 17:42 R	LD EPA 8260C
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.5	10			05/21/2016 17:42 R	LD EPA 8260C
Methylene chloride	<0.60	ug/L	0.60	2.1	10			05/21/2016 17:42 R	LD EPA 8260C
-Butylbenzene	<0.50	ug/L	0.50	1.7	10			05/21/2016 17:42 R	LD EPA 8260C
-Propylbenzene	<0.50	ug/L	0.50	1.6	10			05/21/2016 17:42 R	LD EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Volatile Organic Compounds 8260 C	Comments: Suspected	acetone laborator	y contamination.				Date/Time	Date/Time		
Naphthalene	<0.50	ug/L	0.50	1.8	10			05/21/2016 17:	42 RLD	EPA 8260C
o-Xylene	<0.50	ug/L	0.50	1.6	10			05/21/2016 17:	42 RLD	EPA 8260C
o-Isopropyltoluene	<0.60	ug/L	0.60	2.1	10			05/21/2016 17:	42 RLD	EPA 8260C
sec-Butylbenzene	<0.50	ug/L	0.50	1.8	10			05/21/2016 17:	42 RLD	EPA 8260C
Styrene	<0.50	ug/L	0.50	1.5	10			05/21/2016 17:	42 RLD	EPA 8260C
ert-Butylbenzene	<0.60	ug/L	0.60	1.9	10			05/21/2016 17:	42 RLD	EPA 8260C
Tetrachloroethene	9.6	ug/L	0.60	2.0	10			05/21/2016 17:	42 RLD	EPA 8260C
Tetrahydrofuran	<6.0	ug/L	6.0	21	10			05/21/2016 17:	42 RLD	EPA 8260C
Γoluene	<0.60	ug/L	0.60	2.1	10			05/21/2016 17:	42 RLD	EPA 8260C
rans-1,2-Dichloroethene	0.90	ug/L	0.60 *	2.0	10			05/21/2016 17:	42 RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.14	ug/L	0.14	0.48	10			05/21/2016 17:	42 RLD	EPA 8260C
Frichloroethene	57	ug/L	0.30	1.0	10			05/21/2016 17:	42 RLD	EPA 8260C
Trichlorofluoromethane	<0.50	ug/L	0.50	1.8	10			05/21/2016 17:	42 RLD	EPA 8260C
/inyl acetate	<5.0	ug/L	5.0	16	10			05/21/2016 17:	42 RLD	EPA 8260C
/inyl chloride	1.5	ug/L	0.16	0.52	10			05/21/2016 17:	42 RLD	EPA 8260C
CT LAB Sample#: 725690 Sam	ple Description: MW-1	03S					License/\	Well #: 4189/039	Sampled	05/18/2016 1
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

0.032

5.3

1

1

0.010

1.6

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

mg/L

ug/L

0.0339

348

Metals Results
Dissolved Iron

Dissolved Manganese

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CT LAB Sample#: 725691 Sample Description: MW-103D License/W	/ell #: 4189/040 Sampled: 05/18/2016 11	10
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Field Results										
Dissolved Oxygen (Field)	0.02	mg/L	N/A	N/A	1			05/18/2016 00:00	SUB	
OX/REDOX (Field)	218	MV	N/A	N/A	1			05/18/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Conductivity (Field)	1110	umhos/cm	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
pH (Field)	6.80	S.U.	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Temperature (Field)	11.46	Deg. C	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Inorganic Results										
Alkalinity Total	450	mg/L	5.0	18	1			05/20/2016 15:58	LJS	EPA 310.2
Total Chloride	180	mg/L	5.6	19	8			05/19/2016 16:21	JJF	EPA 9056A
Total Sulfate	77	mg/L	4.0	14	8			05/19/2016 16:21	JJF	EPA 9056A
Total Organic Carbon	5.6	mg/L	0.50	1.7	1			05/23/2016 20:19	JJF	EPA 9060A
Metals Results										
Total Iron	0.0599	mg/L	0.020 *	0.065	1		05/23/2016 12:00	05/25/2016 23:30	NAH	EPA 6010C
Total Manganese	379	ug/L	1.4	4.7	1		05/23/2016 12:00	05/25/2016 23:30	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/20/2016 09:05	05/20/2016 12:45	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 12:45	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/20/2016 09:05	05/20/2016 12:45	AMA	Mod RSK 175
Methane	13	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 12:45	AMA	Mod RSK 175

Volatile Organic Compounds 8260 Comments: Suspected acetone laboratory contamination.

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
olatile Organic Compounds 8260 Co	mments: Suspected	l acetone laborator	y contamination.						
1,1,1,2-Tetrachloroethane	<1.3	ug/L	1.3	4.5	25			05/21/2016 18:10 RLD	EPA 8260C
1,1,1-Trichloroethane	44	ug/L	1.5	5.3	25			05/21/2016 18:10 RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1.6	25			05/21/2016 18:10 RLD	EPA 8260C
1,1,2-Trichloroethane	<1.3	ug/L	1.3	4.3	25			05/21/2016 18:10 RLD	EPA 8260C
1,1-Dichloroethane	7.0	ug/L	1.5	4.8	25			05/21/2016 18:10 RLD	EPA 8260C
1,1-Dichloroethene	2.1	ug/L	1.8 *	5.8	25			05/21/2016 18:10 RLD	EPA 8260C
1,1-Dichloropropene	<1.5	ug/L	1.5	4.8	25			05/21/2016 18:10 RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.3	ug/L	1.3	4.0	25			05/21/2016 18:10 RLD	EPA 8260C
,2,3-Trichloropropane	<1.0	ug/L	1.0	3.3	25			05/21/2016 18:10 RLD	EPA 8260C
,2,4-Trichlorobenzene	<1.0	ug/L	1.0	3.3	25			05/21/2016 18:10 RLD	EPA 8260C
,2,4-Trimethylbenzene	<1.3	ug/L	1.3	4.3	25			05/21/2016 18:10 RLD	EPA 8260C
,2-Dibromo-3-chloropropane	<0.75	ug/L	0.75	2.5	25			05/21/2016 18:10 RLD	EPA 8260C
1,2-Dibromoethane	<1.0	ug/L	1.0	3.5	25			05/21/2016 18:10 RLD	EPA 8260C
1,2-Dichlorobenzene	<1.5	ug/L	1.5	4.8	25			05/21/2016 18:10 RLD	EPA 8260C
1,2-Dichloroethane	<1.0	ug/L	1.0	3.5	25			05/21/2016 18:10 RLD	EPA 8260C
1,2-Dichloropropane	<1.5	ug/L	1.5	5.0	25			05/21/2016 18:10 RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1.5	ug/L	1.5	5.0	25			05/21/2016 18:10 RLD	EPA 8260C
,3-Dichlorobenzene	<1.5	ug/L	1.5	5.3	25			05/21/2016 18:10 RLD	EPA 8260C
,3-Dichloropropane	<1.0	ug/L	1.0	3.3	25			05/21/2016 18:10 RLD	EPA 8260C
,4-Dichlorobenzene	<1.3	ug/L	1.3	4.0	25			05/21/2016 18:10 RLD	EPA 8260C
2,2-Dichloropropane	<1.0	ug/L	1.0	3.0	25			05/21/2016 18:10 RLD	EPA 8260C
2-Butanone	<20	ug/L	20	70	25			05/21/2016 18:10 RLD	EPA 8260C
2-Chlorotoluene	<1.5	ug/L	1.5	4.8	25			05/21/2016 18:10 RLD	EPA 8260C

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CT LAB Sample#: 725691	Sample Description: MW-103D	License/Well #: 4189/040	Sampled: 05/18/2016 1140
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
olatile Organic Compounds 8260 (Comments: Suspected	acetone laborator	ry contamination.						
?-Hexanone	<10	ug/L	10	35	25			05/21/2016 18:10 RLD	EPA 8260C
1-Chlorotoluene	<1.3	ug/L	1.3	4.5	25			05/21/2016 18:10 RLD	EPA 8260C
4-Methyl-2-pentanone	<10	ug/L	10	35	25			05/21/2016 18:10 RLD	EPA 8260C
Acetone	660	ug/L	23	78	25	В		05/21/2016 18:10 RLD	EPA 8260C
Benzene	<1.5	ug/L	1.5	4.5	25			05/21/2016 18:10 RLD	EPA 8260C
Bromobenzene	<1.0	ug/L	1.0	3.5	25			05/21/2016 18:10 RLD	EPA 8260C
Bromochloromethane	<0.43	ug/L	0.43	1.5	25			05/21/2016 18:10 RLD	EPA 8260C
Bromodichloromethane	<0.43	ug/L	0.43	1.5	25			05/21/2016 18:10 RLD	EPA 8260C
Bromoform	<0.45	ug/L	0.45	1.5	25			05/21/2016 18:10 RLD	EPA 8260C
Bromomethane	<2.3	ug/L	2.3	7.3	25			05/21/2016 18:10 RLD	EPA 8260C
Carbon disulfide	<2.8	ug/L	2.8	9.5	25			05/21/2016 18:10 RLD	EPA 8260C
Carbon tetrachloride	<1.5	ug/L	1.5	5.0	25			05/21/2016 18:10 RLD	EPA 8260C
Chlorobenzene	<1.0	ug/L	1.0	3.5	25			05/21/2016 18:10 RLD	EPA 8260C
Chloroethane	<1.5	ug/L	1.5	5.3	25			05/21/2016 18:10 RLD	EPA 8260C
Chloroform	<1.5	ug/L	1.5	5.0	25			05/21/2016 18:10 RLD	EPA 8260C
Chloromethane	<1.3	ug/L	1.3	4.5	25			05/21/2016 18:10 RLD	EPA 8260C
cis-1,2-Dichloroethene	43	ug/L	1.5	5.3	25			05/21/2016 18:10 RLD	EPA 8260C
sis-1,3-Dichloropropene	<0.38	ug/L	0.38	1.2	25			05/21/2016 18:10 RLD	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	25			05/21/2016 18:10 RLD	EPA 8260C
Dibromomethane	<1.5	ug/L	1.5	4.8	25			05/21/2016 18:10 RLD	EPA 8260C
Dichlorodifluoromethane	<1.5	ug/L	1.5	4.8	25			05/21/2016 18:10 RLD	EPA 8260C
Diisopropyl ether	<1.0	ug/L	1.0	3.8	25			05/21/2016 18:10 RLD	EPA 8260C
Ethylbenzene	<1.5	ug/L	1.5	5.3	25			05/21/2016 18:10 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Volatile Organic Compounds 8260 C	Comments: Suspected	l acetone laborator	y contamination.						
Hexachlorobutadiene	<1.8	ug/L	1.8	6.0	25			05/21/2016 18:10 RLD	EPA 8260C
sopropylbenzene	<1.3	ug/L	1.3	4.3	25			05/21/2016 18:10 RLD	EPA 8260C
m & p-Xylene	<3.0	ug/L	3.0	10	25			05/21/2016 18:10 RLD	EPA 8260C
Methyl tert-butyl ether	<1.0	ug/L	1.0	3.8	25			05/21/2016 18:10 RLD	EPA 8260C
Methylene chloride	<1.5	ug/L	1.5	5.3	25			05/21/2016 18:10 RLD	EPA 8260C
n-Butylbenzene	<1.3	ug/L	1.3	4.3	25			05/21/2016 18:10 RLD	EPA 8260C
n-Propylbenzene	<1.3	ug/L	1.3	4.0	25			05/21/2016 18:10 RLD	EPA 8260C
laphthalene	<1.3	ug/L	1.3	4.5	25			05/21/2016 18:10 RLD	EPA 8260C
-Xylene	<1.3	ug/L	1.3	4.0	25			05/21/2016 18:10 RLD	EPA 8260C
-Isopropyltoluene	<1.5	ug/L	1.5	5.3	25			05/21/2016 18:10 RLD	EPA 8260C
ec-Butylbenzene	<1.3	ug/L	1.3	4.5	25			05/21/2016 18:10 RLD	EPA 8260C
Styrene	<1.3	ug/L	1.3	3.8	25			05/21/2016 18:10 RLD	EPA 8260C
ert-Butylbenzene	<1.5	ug/L	1.5	4.8	25			05/21/2016 18:10 RLD	EPA 8260C
Tetrachloroethene	<1.5	ug/L	1.5	5.0	25			05/21/2016 18:10 RLD	EPA 8260C
etrahydrofuran	<15	ug/L	15	53	25			05/21/2016 18:10 RLD	EPA 8260C
Toluene	<1.5	ug/L	1.5	5.3	25			05/21/2016 18:10 RLD	EPA 8260C
ans-1,2-Dichloroethene	<1.5	ug/L	1.5	5.0	25			05/21/2016 18:10 RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.35	ug/L	0.35	1.2	25			05/21/2016 18:10 RLD	EPA 8260C
richloroethene	390	ug/L	0.75	2.5	25			05/21/2016 18:10 RLD	EPA 8260C
richlorofluoromethane	<1.3	ug/L	1.3	4.5	25			05/21/2016 18:10 RLD	EPA 8260C
inyl acetate	<13	ug/L	13	40	25			05/21/2016 18:10 RLD	EPA 8260C
/inyl chloride	<0.40	ug/L	0.40	1.3	25			05/21/2016 18:10 RLD	EPA 8260C

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CT LAB Sample#: 725694	Sample Description: MW-103D	License/Well #: 4189/040	Sampled: 05/18/2016 1140

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Metals Results										
Dissolved Iron	<0.010	mg/L	0.010	0.032	1			05/20/2016 17:18	NAH	EPA 6010C
Dissolved Manganese	335	ug/L	1.6	5.3	1			05/20/2016 17:18	NAH	EPA 6010C
CT LAB Sample#: 725695 Sample	Description: MW-1	03D DUP					License/V	Vell #: 4189/040	Sampled	: 05/18/2016 1145
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Inorganic Results										
Alkalinity Total	450	mg/L	5.0	18	1			05/20/2016 15:22	LJS	EPA 310.2
Total Chloride	180	mg/L	5.6	19	8			05/19/2016 16:40	JJF	EPA 9056A
Total Sulfate	74	mg/L	4.0	14	8			05/19/2016 16:40	JJF	EPA 9056A
Total Organic Carbon	6.7	mg/L	0.50	1.7	1			05/23/2016 20:30	JJF	EPA 9060A
Metals Results										
Total Iron	0.228	mg/L	0.020	0.065	1		05/23/2016 12:00	05/25/2016 23:36	NAH	EPA 6010C
Total Manganese	364	ug/L	1.4	4.7	1		05/23/2016 12:00	05/25/2016 23:36	NAH	EPA 6010C
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/20/2016 09:05	05/20/2016 12:56	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 12:56	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/20/2016 09:05	05/20/2016 12:56	AMA	Mod RSK 175
Methane	12	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 12:56	AMA	Mod RSK 175
Volatile Organic Compounds 8260 Com	nments: Suspected	I methylene chlori	de and acetone lab	oratory contar	nination.					
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50	1.8	10			05/21/2016 18:39	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	yst Method
Volatile Organic Compounds 8260 Cor	mments: Suspected	methylene chlorid	e and acetone labo	oratory contan	nination.				
1,1,1-Trichloroethane	34	ug/L	0.60	2.1	10			05/21/2016 18:39	RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.65	10			05/21/2016 18:39	RLD EPA 8260C
1,1,2-Trichloroethane	<0.50	ug/L	0.50	1.7	10			05/21/2016 18:39	RLD EPA 8260C
1,1-Dichloroethane	5.8	ug/L	0.60	1.9	10			05/21/2016 18:39	RLD EPA 8260C
1,1-Dichloroethene	1.3	ug/L	0.70 *	2.3	10			05/21/2016 18:39	RLD EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.60	1.9	10			05/21/2016 18:39	RLD EPA 8260C
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	10			05/21/2016 18:39	RLD EPA 8260C
1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.3	10			05/21/2016 18:39	RLD EPA 8260C
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.3	10			05/21/2016 18:39	RLD EPA 8260C
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50	1.7	10			05/21/2016 18:39 I	RLD EPA 8260C
1,2-Dibromo-3-chloropropane	<0.30	ug/L	0.30	1.0	10			05/21/2016 18:39 I	RLD EPA 8260C
1,2-Dibromoethane	<0.40	ug/L	0.40	1.4	10			05/21/2016 18:39	RLD EPA 8260C
1,2-Dichlorobenzene	< 0.60	ug/L	0.60	1.9	10			05/21/2016 18:39	RLD EPA 8260C
1,2-Dichloroethane	<0.40	ug/L	0.40	1.4	10			05/21/2016 18:39	RLD EPA 8260C
1,2-Dichloropropane	<0.60	ug/L	0.60	2.0	10			05/21/2016 18:39	RLD EPA 8260C
1,3,5-Trimethylbenzene	<0.60	ug/L	0.60	2.0	10			05/21/2016 18:39	RLD EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.60	2.1	10			05/21/2016 18:39	RLD EPA 8260C
1,3-Dichloropropane	<0.40	ug/L	0.40	1.3	10			05/21/2016 18:39	RLD EPA 8260C
,4-Dichlorobenzene	< 0.50	ug/L	0.50	1.6	10			05/21/2016 18:39 I	RLD EPA 8260C
2,2-Dichloropropane	< 0.40	ug/L	0.40	1.2	10			05/21/2016 18:39 I	RLD EPA 8260C
P-Butanone	<8.0	ug/L	8.0	28	10			05/21/2016 18:39 I	RLD EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.60	1.9	10			05/21/2016 18:39 I	RLD EPA 8260C
2-Hexanone	<4.0	ug/L	4.0	14	10			05/21/2016 18:39 I	RLD EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	t Method
Volatile Organic Compounds 8260 C	Comments: Suspected	methylene chloric	le and acetone lab	oratory contan	nination.				
4-Chlorotoluene	<0.50	ug/L	0.50	1.8	10			05/21/2016 18:39 RLI	D EPA 8260C
1-Methyl-2-pentanone	<4.0	ug/L	4.0	14	10			05/21/2016 18:39 RLI	D EPA 8260C
Acetone	230	ug/L	9.0	31	10	В		05/21/2016 18:39 RLI	D EPA 8260C
Benzene	<0.60	ug/L	0.60	1.8	10			05/21/2016 18:39 RLI	D EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.4	10			05/21/2016 18:39 RLI	D EPA 8260C
Bromochloromethane	<0.17	ug/L	0.17	0.58	10			05/21/2016 18:39 RLI	D EPA 8260C
Bromodichloromethane	<0.17	ug/L	0.17	0.58	10			05/21/2016 18:39 RLI	D EPA 8260C
Bromoform	<0.18	ug/L	0.18	0.60	10			05/21/2016 18:39 RLI	D EPA 8260C
Bromomethane	<0.90	ug/L	0.90	2.9	10			05/21/2016 18:39 RLI	D EPA 8260C
Carbon disulfide	<1.1	ug/L	1.1	3.8	10			05/21/2016 18:39 RLI	D EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.60	2.0	10			05/21/2016 18:39 RLI	D EPA 8260C
Chlorobenzene	<0.40	ug/L	0.40	1.4	10			05/21/2016 18:39 RLI	D EPA 8260C
Chloroethane	<0.60	ug/L	0.60	2.1	10			05/21/2016 18:39 RLI	D EPA 8260C
Chloroform	<0.60	ug/L	0.60	2.0	10			05/21/2016 18:39 RLI	D EPA 8260C
Chloromethane	<0.50	ug/L	0.50	1.8	10			05/21/2016 18:39 RLI	D EPA 8260C
sis-1,2-Dichloroethene	33	ug/L	0.60	2.1	10			05/21/2016 18:39 RLI	D EPA 8260C
sis-1,3-Dichloropropene	<0.15	ug/L	0.15	0.49	10			05/21/2016 18:39 RLI	D EPA 8260C
Dibromochloromethane	<0.16	ug/L	0.16	0.54	10			05/21/2016 18:39 RLI	D EPA 8260C
Dibromomethane	<0.60	ug/L	0.60	1.9	10			05/21/2016 18:39 RLI	D EPA 8260C
Pichlorodifluoromethane	<0.60	ug/L	0.60	1.9	10			05/21/2016 18:39 RLI	D EPA 8260C
Diisopropyl ether	<0.40	ug/L	0.40	1.5	10			05/21/2016 18:39 RLI	D EPA 8260C
Ethylbenzene	<0.60	ug/L	0.60	2.1	10			05/21/2016 18:39 RLI	D EPA 8260C
lexachlorobutadiene	<0.70	ug/L	0.70	2.4	10			05/21/2016 18:39 RLI	D EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
/olatile Organic Compounds 8260 Cor	mments: Suspected	methylene chlorid	e and acetone labo	ratory contan	nination.				
sopropylbenzene	<0.50	ug/L	0.50	1.7	10			05/21/2016 18:39 RLD	EPA 8260C
n & p-Xylene	<1.2	ug/L	1.2	4.0	10			05/21/2016 18:39 RLD	EPA 8260C
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.5	10			05/21/2016 18:39 RLD	EPA 8260C
Methylene chloride	<0.60	ug/L	0.60	2.1	10			05/21/2016 18:39 RLD	EPA 8260C
-Butylbenzene	<0.50	ug/L	0.50	1.7	10			05/21/2016 18:39 RLD	EPA 8260C
-Propylbenzene	<0.50	ug/L	0.50	1.6	10			05/21/2016 18:39 RLD	EPA 8260C
laphthalene	<0.50	ug/L	0.50	1.8	10			05/21/2016 18:39 RLD	EPA 8260C
-Xylene	<0.50	ug/L	0.50	1.6	10			05/21/2016 18:39 RLD	EPA 8260C
-Isopropyltoluene	<0.60	ug/L	0.60	2.1	10			05/21/2016 18:39 RLD	EPA 8260C
ec-Butylbenzene	<0.50	ug/L	0.50	1.8	10			05/21/2016 18:39 RLD	EPA 8260C
tyrene	<0.50	ug/L	0.50	1.5	10			05/21/2016 18:39 RLD	EPA 8260C
ert-Butylbenzene	<0.60	ug/L	0.60	1.9	10			05/21/2016 18:39 RLD	EPA 8260C
etrachloroethene	<0.60	ug/L	0.60	2.0	10			05/21/2016 18:39 RLD	EPA 8260C
etrahydrofuran	<6.0	ug/L	6.0	21	10			05/21/2016 18:39 RLD	EPA 8260C
oluene	<0.60	ug/L	0.60	2.1	10			05/21/2016 18:39 RLD	EPA 8260C
ans-1,2-Dichloroethene	<0.60	ug/L	0.60	2.0	10			05/21/2016 18:39 RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.14	ug/L	0.14	0.48	10			05/21/2016 18:39 RLD	EPA 8260C
richloroethene	340	ug/L	3.0	11	10			05/24/2016 22:21 AGK	EPA 8260C
richlorofluoromethane	<0.50	ug/L	0.50	1.8	10			05/21/2016 18:39 RLD	EPA 8260C
inyl acetate	<5.0	ug/L	5.0	16	10			05/21/2016 18:39 RLD	EPA 8260C
inyl chloride	0.50	ug/L	0.16 *	0.52	10			05/21/2016 18:39 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	nalyst	Method
Metals Results										
Dissolved Iron	<0.010	mg/L	0.010	0.032	1			05/20/2016 17:25	NAH	EPA 6010C
Dissolved Manganese	331	ug/L	1.6	5.3	1			05/20/2016 17:25	NAH	EPA 6010C
CT LAB Sample#: 725697 Samp	ple Description: OW-6						License/V	Vell #: 4189/049 S	ampled	: 05/18/2016 1225
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	nalyst	Method
Field Results										
Dissolved Oxygen (Field)	3.40	mg/L	N/A	N/A	1			05/18/2016 00:00	SUB	
OX/REDOX (Field)	163	MV	N/A	N/A	1			05/18/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Conductivity (Field)	637	umhos/cm	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
pH (Field)	9.18	S.U.	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Temperature (Field)	12.40	Deg. C	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Inorganic Results										
Alkalinity Total	240	mg/L	5.0	18	1			05/20/2016 15:22	LJS	EPA 310.2
Total Chloride	130	mg/L	3.5	12	5			05/19/2016 16:59	JJF	EPA 9056A
Total Sulfate	9.7	mg/L	0.50	1.8	1			05/19/2016 21:58	JJF	EPA 9056A
Total Organic Carbon	0.53	mg/L	0.50 *	1.7	1			05/23/2016 20:42	JJF	EPA 9060A
Metals Results										
Total Iron	0.416	mg/L	0.020	0.065	1		05/23/2016 12:00	05/25/2016 23:43	NAH	EPA 6010C
Total Manganese	16.6	ug/L	1.4	4.7	1		05/23/2016 12:00	05/25/2016 23:43	NAH	EPA 6010C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/20/2016 09:05	05/20/2016 13:08	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 13:08	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/20/2016 09:05	05/20/2016 13:08	AMA	Mod RSK 175
Methane	54	ug/L	2.0	6.0	5		05/20/2016 09:05	05/20/2016 13:25	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	< 0.050	ug/L	0.050	0.18	1			05/21/2016 12:55	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/21/2016 12:55	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/21/2016 12:55	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/21/2016 12:55	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			05/21/2016 12:55	RLD	EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			05/21/2016 12:55	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/21/2016 12:55	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/21/2016 12:55	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/21/2016 12:55	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/21/2016 12:55	RLD	EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			05/21/2016 12:55	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			05/21/2016 12:55	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/21/2016 12:55	RLD	EPA 8260C
1,2-Dichlorobenzene	< 0.060	ug/L	0.060	0.19	1			05/21/2016 12:55	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/21/2016 12:55	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/21/2016 12:55	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/21/2016 12:55	RLD	EPA 8260C
1,3-Dichlorobenzene	0.091	ug/L	0.060 *	0.21	1			05/21/2016 12:55	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/21/2016 12:55	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/21/2016 12:55	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/21/2016 12:55	RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/21/2016 12:55	RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/21/2016 12:55	RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/21/2016 12:55	RLD	EPA 8260C
1-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/21/2016 12:55	RLD	EPA 8260C
-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/21/2016 12:55	RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/21/2016 12:55	RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/21/2016 12:55	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/21/2016 12:55	RLD	EPA 8260C
romochloromethane	<0.017	ug/L	0.017	0.058	1			05/21/2016 12:55	RLD	EPA 8260C
romodichloromethane	<0.017	ug/L	0.017	0.058	1			05/21/2016 12:55	RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/21/2016 12:55	RLD	EPA 8260C
romomethane	<0.090	ug/L	0.090	0.29	1			05/21/2016 12:55	RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/21/2016 12:55	RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/21/2016 12:55	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/21/2016 12:55	RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/21/2016 12:55	RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/21/2016 12:55	RLD	EPA 8260C
Chloromethane	0.17	ug/L	0.050 *	0.18	1			05/21/2016 12:55	RLD	EPA 8260C
is-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/21/2016 12:55	RLD	EPA 8260C
is-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/21/2016 12:55	RLD	EPA 8260C
bibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/21/2016 12:55	RLD	EPA 8260C
ibromomethane	<0.060	ug/L	0.060	0.19	1			05/21/2016 12:55	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/21/2016 12:55	RLD	EPA 8260C
Diisopropyl ether	< 0.040	ug/L	0.040	0.15	1			05/21/2016 12:55	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time	1
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/21/2016 12:55 RLD EPA 826	0C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/21/2016 12:55 RLD EPA 826	i0C
Isopropylbenzene	< 0.050	ug/L	0.050	0.17	1			05/21/2016 12:55 RLD EPA 826	i0C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/21/2016 12:55 RLD EPA 826	0C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/21/2016 12:55 RLD EPA 826	0C
Methylene chloride	< 0.060	ug/L	0.060	0.21	1			05/21/2016 12:55 RLD EPA 826	0C
n-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			05/21/2016 12:55 RLD EPA 826	0C
n-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			05/21/2016 12:55 RLD EPA 826	0C
Naphthalene	< 0.050	ug/L	0.050	0.18	1			05/21/2016 12:55 RLD EPA 826	0C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			05/21/2016 12:55 RLD EPA 826	0C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/21/2016 12:55 RLD EPA 826	0C
sec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			05/21/2016 12:55 RLD EPA 826	0C
Styrene	< 0.050	ug/L	0.050	0.15	1			05/21/2016 12:55 RLD EPA 826	0C
tert-Butylbenzene	< 0.060	ug/L	0.060	0.19	1			05/21/2016 12:55 RLD EPA 826	0C
Tetrachloroethene	< 0.060	ug/L	0.060	0.20	1			05/21/2016 12:55 RLD EPA 826	0C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/21/2016 12:55 RLD EPA 826	:0C
Toluene	< 0.060	ug/L	0.060	0.21	1			05/21/2016 12:55 RLD EPA 826	:0C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/21/2016 12:55 RLD EPA 826	0C
trans-1,3-Dichloropropene	< 0.014	ug/L	0.014	0.048	1			05/21/2016 12:55 RLD EPA 826	0C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			05/21/2016 12:55 RLD EPA 826	0C
Trichlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			05/21/2016 12:55 RLD EPA 826	0C
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			05/21/2016 12:55 RLD EPA 826	0C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			05/21/2016 12:55 RLD EPA 826	60C

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CT LAB Sample#: 725698	Sample Description: OW-6	License/Well #: 4189/049	Sampled: 05/18/2016 1225
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
Metals Results										
Dissolved Iron	<0.010	mg/L	0.010	0.032	1			05/20/2016 17:31	NAH	EPA 6010C
Dissolved Manganese	4.8	ug/L	1.6 *	5.3	1			05/20/2016 17:31	NAH	EPA 6010C
CT LAB Sample#: 725700 Samp	ole Description: MW-2	PD.					License/V	Vell #: 4189/004 Sa	mpled:	05/18/2016 1315
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis An Date/Time	alyst	Method
Field Results										
Dissolved Oxygen (Field)	0	mg/L	N/A	N/A	1			05/18/2016 00:00	SUB	
OX/REDOX (Field)	25	MV	N/A	N/A	1			05/18/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Conductivity (Field)	1020	umhos/cm	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
pH (Field)	7.03	S.U.	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Temperature (Field)	12.13	Deg. C	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Inorganic Results										
Alkalinity Total	390	mg/L	5.0	18	1			05/20/2016 15:23	LJS	EPA 310.2
Total Chloride	200	mg/L	7.0	24	10			05/19/2016 17:17	JJF	EPA 9056A
Total Sulfate	45	mg/L	5.0	18	10			05/19/2016 17:17	JJF	EPA 9056A
Total Organic Carbon	2.8	mg/L	0.50	1.7	1	Υ		05/23/2016 21:27	JJF	EPA 9060A
Metals Results										
Total Iron	0.423	mg/L	0.020	0.065	1		05/23/2016 12:00	05/25/2016 23:50	NAH	EPA 6010C
Total Manganese	19.3	ug/L	1.4	4.7	1		05/23/2016 12:00	05/25/2016 23:50	NAH	EPA 6010C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/20/2016 09:05	05/20/2016 13:35	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 13:35	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/20/2016 09:05	05/20/2016 13:35	AMA	Mod RSK 175
Methane	68	ug/L	2.0	6.0	5		05/20/2016 09:05	05/20/2016 13:45	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 18:15	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 18:15	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 18:15	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/20/2016 18:15	RLD	EPA 8260C
1,1-Dichloroethane	0.13	ug/L	0.060 *	0.19	1			05/20/2016 18:15	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/20/2016 18:15	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/20/2016 18:15	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 18:15	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 18:15	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/20/2016 18:15	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 18:15	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/20/2016 18:15	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 18:15	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 18:15	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 18:15	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/20/2016 18:15	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 18:15	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 18:15	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 18:15	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 18:15	RLD	EPA 8260C

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2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 18:15 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 18:15 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 18:15 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 18:15 RLD	EPA 8260C
4-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 18:15 RLD	EPA 8260C
4-Methyl-2-pentanone	< 0.40	ug/L	0.40	1.4	1			05/20/2016 18:15 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 18:15 RLD	EPA 8260C
Benzene	< 0.060	ug/L	0.060	0.18	1			05/20/2016 18:15 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 18:15 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 18:15 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 18:15 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 18:15 RLD	EPA 8260C
Bromomethane	< 0.090	ug/L	0.090	0.29	1			05/20/2016 18:15 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 18:15 RLD	EPA 8260C
Carbon tetrachloride	< 0.060	ug/L	0.060	0.20	1			05/20/2016 18:15 RLD	EPA 8260C
Chlorobenzene	< 0.040	ug/L	0.040	0.14	1			05/20/2016 18:15 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 18:15 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/20/2016 18:15 RLD	EPA 8260C
Chloromethane	0.13	ug/L	0.050 *	0.18	1			05/20/2016 18:15 RLD	EPA 8260C
cis-1,2-Dichloroethene	0.24	ug/L	0.060	0.21	1			05/20/2016 18:15 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 18:15 RLD	EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 18:15 RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 18:15 RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 18:15 RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 18:15 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 18:15 RLD	EPA 8260C
Hexachlorobutadiene	< 0.070	ug/L	0.070	0.24	1			05/20/2016 18:15 RLD	EPA 8260C
Isopropylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 18:15 RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 18:15 RLD	EPA 8260C
Methyl tert-butyl ether	0.095	ug/L	0.040 *	0.15	1			05/20/2016 18:15 RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/20/2016 18:15 RLD	EPA 8260C
n-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 18:15 RLD	EPA 8260C
n-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 18:15 RLD	EPA 8260C
Naphthalene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 18:15 RLD	EPA 8260C
-Xylene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 18:15 RLD	EPA 8260C
-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 18:15 RLD	EPA 8260C
ec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 18:15 RLD	EPA 8260C
styrene	< 0.050	ug/L	0.050	0.15	1			05/20/2016 18:15 RLD	EPA 8260C
ert-Butylbenzene	< 0.060	ug/L	0.060	0.19	1			05/20/2016 18:15 RLD	EPA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 18:15 RLD	EPA 8260C
etrahydrofuran	0.98	ug/L	0.60 *	2.1	1	В		05/20/2016 18:15 RLD	EPA 8260C
oluene	< 0.060	ug/L	0.060	0.21	1			05/20/2016 18:15 RLD	EPA 8260C
rans-1,2-Dichloroethene	< 0.060	ug/L	0.060	0.20	1			05/20/2016 18:15 RLD	EPA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/20/2016 18:15 RLD	EPA 8260C
richloroethene	<0.030	ug/L	0.030	0.10	1			05/20/2016 18:15 RLD	EPA 8260C
richlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			05/20/2016 18:15 RLD	EPA 8260C
/inyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 18:15 RLD	EPA 8260C
/inyl chloride	<0.016	ug/L	0.016	0.052	1			05/20/2016 18:15 RLD	EPA 8260C

CT LABORATORIES delivering more than data from your environmental analyses

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	nalyst	Method
Metals Results										
Dissolved Iron	0.340	mg/L	0.010	0.032	1			05/20/2016 17:38	NAH	EPA 6010C
Dissolved Manganese	15.8	ug/L	1.6	5.3	1			05/20/2016 17:38	NAH	EPA 6010C
CT LAB Sample#: 725708 Samp	le Description: MW-3	BD					License/V	Vell #: 4189/006 Sa	ampled	: 05/18/2016 1430
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ar Date/Time	nalyst	Method
Field Results										
Dissolved Oxygen (Field)	0.44	mg/L	N/A	N/A	1			05/18/2016 00:00	SUB	
OX/REDOX (Field)	54	MV	N/A	N/A	1			05/18/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Conductivity (Field)	970	umhos/cm	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
pH (Field)	7.08	S.U.	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Temperature (Field)	11.98	Deg. C	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Inorganic Results										
Alkalinity Total	360	mg/L	5.0	18	1			05/20/2016 16:00	LJS	EPA 310.2
Total Chloride	190	mg/L	5.6	19	8			05/19/2016 18:14	JJF	EPA 9056A
Total Sulfate	47	mg/L	4.0	14	8			05/19/2016 18:14	JJF	EPA 9056A
Total Organic Carbon	1.8	mg/L	0.50	1.7	1			05/23/2016 22:26	JJF	EPA 9060A
Metals Results										
Total Iron	0.437	mg/L	0.020	0.065	1		05/23/2016 12:00	05/25/2016 23:57	NAH	EPA 6010C
Total Manganese	45.3	ug/L	1.4	4.7	1		05/23/2016 12:00	05/25/2016 23:57	NAH	EPA 6010C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/20/2016 09:05	05/20/2016 13:55	AMA	Mod RSK 175
Ethane	< 0.40	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 13:55	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/20/2016 09:05	05/20/2016 13:55	AMA	Mod RSK 175
Methane	32	ug/L	0.80	2.4	2		05/20/2016 09:05	05/20/2016 14:05	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 18:44	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 18:44	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 18:44	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/20/2016 18:44	RLD	EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			05/20/2016 18:44	RLD	EPA 8260C
1,1-Dichloroethene	<0.070	ug/L	0.070	0.23	1			05/20/2016 18:44	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/20/2016 18:44	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 18:44	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 18:44	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/20/2016 18:44	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 18:44	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			05/20/2016 18:44	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 18:44	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 18:44	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 18:44	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/20/2016 18:44	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 18:44	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 18:44	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 18:44	RLD	EPA 8260C
1,4-Dichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 18:44	RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 18:44 RLD EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 18:44 RLD EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 18:44 RLD EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 18:44 RLD EPA 8260C
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			05/20/2016 18:44 RLD EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 18:44 RLD EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 18:44 RLD EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/20/2016 18:44 RLD EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 18:44 RLD EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 18:44 RLD EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 18:44 RLD EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 18:44 RLD EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/20/2016 18:44 RLD EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 18:44 RLD EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/20/2016 18:44 RLD EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 18:44 RLD EPA 8260C
Chloroethane	< 0.060	ug/L	0.060	0.21	1			05/20/2016 18:44 RLD EPA 8260C
Chloroform	< 0.060	ug/L	0.060	0.20	1			05/20/2016 18:44 RLD EPA 8260C
Chloromethane	0.14	ug/L	0.050 *	0.18	1			05/20/2016 18:44 RLD EPA 8260C
cis-1,2-Dichloroethene	0.35	ug/L	0.060	0.21	1			05/20/2016 18:44 RLD EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 18:44 RLD EPA 8260C
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 18:44 RLD EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 18:44 RLD EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 18:44 RLD EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 18:44 RLD EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	lyst	Method
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 18:44	RLD	EPA 8260C
Hexachlorobutadiene	< 0.070	ug/L	0.070	0.24	1			05/20/2016 18:44	RLD	EPA 8260C
Isopropylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 18:44	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 18:44	RLD	EPA 8260C
Methyl tert-butyl ether	0.38	ug/L	0.040	0.15	1			05/20/2016 18:44	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/20/2016 18:44	RLD	EPA 8260C
n-Butylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 18:44	RLD	EPA 8260C
n-Propylbenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 18:44	RLD	EPA 8260C
Naphthalene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 18:44	RLD	EPA 8260C
o-Xylene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 18:44	RLD	EPA 8260C
o-Isopropyltoluene	< 0.060	ug/L	0.060	0.21	1			05/20/2016 18:44	RLD	EPA 8260C
sec-Butylbenzene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 18:44	RLD	EPA 8260C
Styrene	< 0.050	ug/L	0.050	0.15	1			05/20/2016 18:44	RLD	EPA 8260C
ert-Butylbenzene	< 0.060	ug/L	0.060	0.19	1			05/20/2016 18:44	RLD	EPA 8260C
Tetrachloroethene	< 0.060	ug/L	0.060	0.20	1			05/20/2016 18:44	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/20/2016 18:44	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 18:44	RLD	EPA 8260C
rans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 18:44	RLD	EPA 8260C
rans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/20/2016 18:44	RLD	EPA 8260C
richloroethene	<0.030	ug/L	0.030	0.10	1			05/20/2016 18:44	RLD	EPA 8260C
richlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			05/20/2016 18:44	RLD	EPA 8260C
/inyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 18:44	RLD	EPA 8260C
/inyl chloride	0.024	ug/L	0.016 *	0.052	1			05/20/2016 18:44	RLD	EPA 8260C

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TETRA TECH

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05/23/2016 12:00

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05/26/2016 00:03 NAH EPA 6010C

CT LAB Sample#: 725709 Sam	ple Description: MW-3	BD					License/\	Well #: 4189/006 S	Sampled	: 05/18/2016 143
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Metals Results										
Dissolved Iron	0.471	mg/L	0.010	0.032	1			05/20/2016 17:45	NAH	EPA 6010C
Dissolved Manganese	37.7	ug/L	1.6	5.3	1			05/20/2016 17:45	NAH	EPA 6010C
CT LAB Sample#: 725710 Sam	ple Description: TW-2	021					License/\	Nell #: 4189/048 S	Sampled	: 05/18/2016 152
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Field Results										
Dissolved Oxygen (Field)	2.55	mg/L	N/A	N/A	1			05/18/2016 00:00	SUB	
OX/REDOX (Field)	55	MV	N/A	N/A	1			05/18/2016 00:00	SUB	
Color (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Conductivity (Field)	1190	umhos/cm	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
pH (Field)	7.02	S.U.	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Temperature (Field)	11.28	Deg. C	N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Turbidity (Field)	clear		N/A	N/A	1			05/18/2016 00:00	SUB	FIELD
Inorganic Results										
Alkalinity Total	370	mg/L	5.0	18	1			05/20/2016 15:25	LJS	EPA 310.2
Total Chloride	260	mg/L	7.0	24	10			05/19/2016 18:32	JJF	EPA 9056A
Total Sulfate	51	mg/L	5.0	18	10			05/19/2016 18:32	JJF	EPA 9056A
Total Organic Carbon	3.6	mg/L	0.50	1.7	1			05/23/2016 22:38	JJF	EPA 9060A
Metals Results										
Total Iron	0.169	mg/L	0.020	0.065	1		05/23/2016 12:00	05/26/2016 00:03	NAH	EPA 6010C

4.7

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

486

ug/L

1.4

Total Manganese

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CT LAB Sample#: 725710 Sample Descripti			Sampled: 05/18/2016 1520
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Organic Results										
Acetylene	<0.23	ug/L	0.23	0.77	1		05/20/2016 09:05	05/20/2016 14:15	AMA	Mod RSK 175
Ethane	<0.40	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 14:15	AMA	Mod RSK 175
Ethene	<0.50	ug/L	0.50	1.8	1		05/20/2016 09:05	05/20/2016 14:15	AMA	Mod RSK 175
Methane	4.4	ug/L	0.40	1.2	1		05/20/2016 09:05	05/20/2016 14:15	AMA	Mod RSK 175
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 19:13	RLD	EPA 8260C
1,1,1-Trichloroethane	0.24	ug/L	0.060	0.21	1			05/20/2016 19:13	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 19:13	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.17	1			05/20/2016 19:13	RLD	EPA 8260C
1,1-Dichloroethane	0.13	ug/L	0.060 *	0.19	1			05/20/2016 19:13	RLD	EPA 8260C
1,1-Dichloroethene	0.092	ug/L	0.070 *	0.23	1			05/20/2016 19:13	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			05/20/2016 19:13	RLD	EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 19:13	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 19:13	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			05/20/2016 19:13	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 19:13	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.030	ug/L	0.030	0.10	1			05/20/2016 19:13	RLD	EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 19:13	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 19:13	RLD	EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 19:13	RLD	EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/20/2016 19:13	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 19:13	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 19:13	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 19:13	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 19:13	RLD	EPA 8260C

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Butanone	Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Chlorotoluene	2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 19:13 RLD	EPA 8260C
Hexanone	2-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 19:13 RLD	EPA 8260C
Chlorotoluene	2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 19:13 RLD	EPA 8260C
Methyl-2-pentanone <0.40 ug/L 0.40 1.4 1 05/20/2016 19:13 RLD EPA 8260C cetone <0.90 ug/L 0.90 3.1 1 05/20/2016 19:13 RLD EPA 8260C cetone <0.060 ug/L 0.060 0.18 1 05/20/2016 19:13 RLD EPA 8260C comodicitormethane <0.040 ug/L 0.041 1 05/20/2016 19:13 RLD EPA 8260C comodicitormethane <0.017 ug/L 0.017 0.058 1 05/20/2016 19:13 RLD EPA 8260C comodicitormethane <0.017 ug/L 0.017 0.058 1 05/20/2016 19:13 RLD EPA 8260C comodificitormethane <0.018 ug/L 0.018 0.060 1 05/20/2016 19:13 RLD EPA 8260C comodificition <0.011 ug/L 0.011 0.03 0.060 0.29 1 05/20/2016 19:13 </td <td>2-Hexanone</td> <td><0.40</td> <td>ug/L</td> <td>0.40</td> <td>1.4</td> <td>1</td> <td></td> <td></td> <td>05/20/2016 19:13 RLD</td> <td>EPA 8260C</td>	2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 19:13 RLD	EPA 8260C
Section Common	-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 19:13 RLD	EPA 8260C
enzene	-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 19:13 RLD	EPA 8260C
romobenzene	cetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 19:13 RLD	EPA 8260C
romochloromethane	Benzene	<0.060	ug/L	0.060	0.18	1			05/20/2016 19:13 RLD	EPA 8260C
romodichloromethane	Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 19:13 RLD	EPA 8260C
romoform	romochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 19:13 RLD	EPA 8260C
Commomethane Comm	romodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 19:13 RLD	EPA 8260C
arbon disulfide	romoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 19:13 RLD	EPA 8260C
arbon tetrachloride	romomethane	< 0.090	ug/L	0.090	0.29	1			05/20/2016 19:13 RLD	EPA 8260C
hlorobenzene	Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 19:13 RLD	EPA 8260C
hloroethane	Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/20/2016 19:13 RLD	EPA 8260C
hloroform < 0.060 ug/L 0.060 0.20 1 05/20/2016 19:13 RLD EPA 8260C hloromethane	Chlorobenzene	0.45	ug/L	0.040	0.14	1			05/20/2016 19:13 RLD	EPA 8260C
hloromethane	Chloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 19:13 RLD	EPA 8260C
s-1,2-Dichloroethene	Chloroform	<0.060	ug/L	0.060	0.20	1			05/20/2016 19:13 RLD	EPA 8260C
s-1,3-Dichloropropene <0.015 ug/L 0.015 0.049 1 05/20/2016 19:13 RLD EPA 8260C ibromochloromethane <0.016 ug/L 0.016 0.054 1 05/20/2016 19:13 RLD EPA 8260C ibromomethane <0.060 ug/L 0.060 0.19 1 05/20/2016 19:13 RLD EPA 8260C ichlorodifluoromethane <0.060 ug/L 0.060 0.19 1 05/20/2016 19:13 RLD EPA 8260C ichlorodifluoromethane	Chloromethane	0.13	ug/L	0.050 *	0.18	1			05/20/2016 19:13 RLD	EPA 8260C
ibromochloromethane <0.016 ug/L 0.016 0.054 1 05/20/2016 19:13 RLD EPA 8260C ibromomethane <0.060 ug/L 0.060 0.19 1 05/20/2016 19:13 RLD EPA 8260C ichlorodifluoromethane <0.060 ug/L 0.060 0.19 1 05/20/2016 19:13 RLD EPA 8260C	is-1,2-Dichloroethene	19	ug/L	0.12	0.42	2			05/21/2016 16:15 AGK	EPA 8260C
ibromomethane <0.060 ug/L 0.060 0.19 1 05/20/2016 19:13 RLD EPA 8260C ichlorodifluoromethane <0.060 ug/L 0.060 0.19 1 05/20/2016 19:13 RLD EPA 8260C	is-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 19:13 RLD	EPA 8260C
ichlorodifluoromethane <0.060 ug/L 0.060 0.19 1 05/20/2016 19:13 RLD EPA 8260C	ibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 19:13 RLD	EPA 8260C
	ibromomethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 19:13 RLD	EPA 8260C
iisopropyl ether <0.040 ug/L 0.040 0.15 1 05/20/2016 19:13 RLD EPA 8260C	Pichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 19:13 RLD	EPA 8260C
	iisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 19:13 RLD	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	t Method
thylbenzene	<0.060	ug/L	0.060	0.21	1		24.07	05/20/2016 19:13 RL	D EPA 8260C
lexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/20/2016 19:13 RL	D EPA 8260C
sopropylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 19:13 RL	D EPA 8260C
n & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 19:13 RL	D EPA 8260C
lethyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 19:13 RL	D EPA 8260C
lethylene chloride	<0.060	ug/L	0.060	0.21	1			05/20/2016 19:13 RL	D EPA 8260C
-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 19:13 RL	D EPA 8260C
-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 19:13 RL	D EPA 8260C
laphthalene	<0.050	ug/L	0.050	0.18	1			05/20/2016 19:13 RL	D EPA 8260C
-Xylene	<0.050	ug/L	0.050	0.16	1			05/20/2016 19:13 RL	D EPA 8260C
-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 19:13 RL	D EPA 8260C
ec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/20/2016 19:13 RL	D EPA 8260C
tyrene	<0.050	ug/L	0.050	0.15	1			05/20/2016 19:13 RL	D EPA 8260C
ert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 19:13 RL	D EPA 8260C
etrachloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 19:13 RL	D EPA 8260C
etrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/20/2016 19:13 RL	D EPA 8260C
oluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 19:13 RL	D EPA 8260C
ans-1,2-Dichloroethene	1.5	ug/L	0.060	0.20	1			05/20/2016 19:13 RL	D EPA 8260C
ans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/20/2016 19:13 RL	D EPA 8260C
richloroethene	12	ug/L	0.030	0.10	1			05/20/2016 19:13 RL	D EPA 8260C
richlorofluoromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 19:13 RL	D EPA 8260C
inyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 19:13 RL	D EPA 8260C
inyl chloride	<0.016	ug/L	0.016	0.052	1			05/20/2016 19:13 RL	D EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Metals Results								
Dissolved Iron	0.126	mg/L	0.010	0.032	1			05/20/2016 18:10 NAH EPA 6010C
Dissolved Manganese	448	ug/L	1.6	5.3	1			05/20/2016 18:10 NAH EPA 6010C
CT LAB Sample#: 725712 Sample	e Description: TB-5						License/W	/ell #: 4189/999 Sampled: 05/18/2016
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Organic Results								
1,1,1,2-Tetrachloroethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 13:30 RLD EPA 8260C
1,1,1-Trichloroethane	< 0.060	ug/L	0.060	0.21	1			05/20/2016 13:30 RLD EPA 8260C
1,1,2,2-Tetrachloroethane	<0.020	ug/L	0.020	0.065	1			05/20/2016 13:30 RLD EPA 8260C
1,1,2-Trichloroethane	< 0.050	ug/L	0.050	0.17	1			05/20/2016 13:30 RLD EPA 8260C
1,1-Dichloroethane	< 0.060	ug/L	0.060	0.19	1			05/20/2016 13:30 RLD EPA 8260C
1,1-Dichloroethene	< 0.070	ug/L	0.070	0.23	1			05/20/2016 13:30 RLD EPA 8260C
1,1-Dichloropropene	< 0.060	ug/L	0.060	0.19	1			05/20/2016 13:30 RLD EPA 8260C
1,2,3-Trichlorobenzene	< 0.050	ug/L	0.050	0.16	1			05/20/2016 13:30 RLD EPA 8260C
1,2,3-Trichloropropane	< 0.040	ug/L	0.040	0.13	1			05/20/2016 13:30 RLD EPA 8260C
1,2,4-Trichlorobenzene	< 0.040	ug/L	0.040	0.13	1			05/20/2016 13:30 RLD EPA 8260C
1,2,4-Trimethylbenzene	< 0.050	ug/L	0.050	0.17	1			05/20/2016 13:30 RLD EPA 8260C
1,2-Dibromo-3-chloropropane	< 0.030	ug/L	0.030	0.10	1			05/20/2016 13:30 RLD EPA 8260C
1,2-Dibromoethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:30 RLD EPA 8260C
1,2-Dichlorobenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:30 RLD EPA 8260C
1,2-Dichloroethane	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:30 RLD EPA 8260C
1,2-Dichloropropane	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:30 RLD EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,3,5-Trimethylbenzene	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:30 RLD	EPA 8260C
1,3-Dichlorobenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:30 RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			05/20/2016 13:30 RLD	EPA 8260C
1,4-Dichlorobenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 13:30 RLD	EPA 8260C
2,2-Dichloropropane	<0.040	ug/L	0.040	0.12	1			05/20/2016 13:30 RLD	EPA 8260C
2-Butanone	<0.80	ug/L	0.80	2.8	1			05/20/2016 13:30 RLD	EPA 8260C
2-Chlorotoluene	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:30 RLD	EPA 8260C
2-Hexanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 13:30 RLD	EPA 8260C
4-Chlorotoluene	< 0.050	ug/L	0.050	0.18	1			05/20/2016 13:30 RLD	EPA 8260C
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.4	1			05/20/2016 13:30 RLD	EPA 8260C
Acetone	<0.90	ug/L	0.90	3.1	1			05/20/2016 13:30 RLD	EPA 8260C
Benzene	<0.060	ug/L	0.060	0.18	1			05/20/2016 13:30 RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:30 RLD	EPA 8260C
Bromochloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 13:30 RLD	EPA 8260C
Bromodichloromethane	<0.017	ug/L	0.017	0.058	1			05/20/2016 13:30 RLD	EPA 8260C
Bromoform	<0.018	ug/L	0.018	0.060	1			05/20/2016 13:30 RLD	EPA 8260C
Bromomethane	<0.090	ug/L	0.090	0.29	1			05/20/2016 13:30 RLD	EPA 8260C
Carbon disulfide	<0.11	ug/L	0.11	0.38	1			05/20/2016 13:30 RLD	EPA 8260C
Carbon tetrachloride	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:30 RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.14	1			05/20/2016 13:30 RLD	EPA 8260C
Chloroethane	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:30 RLD	EPA 8260C
Chloroform	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:30 RLD	EPA 8260C
Chloromethane	<0.050	ug/L	0.050	0.18	1			05/20/2016 13:30 RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:30 RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.015	ug/L	0.015	0.049	1			05/20/2016 13:30 RLD	EPA 8260C

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CT LAB Sample#: 725712 Sample Description: TB-5 License/Well #: 4189/999 Sampled: 05/18/2016

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Dibromochloromethane	<0.016	ug/L	0.016	0.054	1			05/20/2016 13:30	RLD	EPA 8260C
Dibromomethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:30	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:30	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 13:30	RLD	EPA 8260C
Ethylbenzene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:30	RLD	EPA 8260C
Hexachlorobutadiene	<0.070	ug/L	0.070	0.24	1			05/20/2016 13:30	RLD	EPA 8260C
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 13:30	RLD	EPA 8260C
m & p-Xylene	<0.12	ug/L	0.12	0.40	1			05/20/2016 13:30	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.15	1			05/20/2016 13:30	RLD	EPA 8260C
Methylene chloride	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:30	RLD	EPA 8260C
n-Butylbenzene	<0.050	ug/L	0.050	0.17	1			05/20/2016 13:30	RLD	EPA 8260C
n-Propylbenzene	<0.050	ug/L	0.050	0.16	1			05/20/2016 13:30	RLD	EPA 8260C
Naphthalene	<0.050	ug/L	0.050	0.18	1			05/20/2016 13:30	RLD	EPA 8260C
o-Xylene	<0.050	ug/L	0.050	0.16	1			05/20/2016 13:30	RLD	EPA 8260C
p-Isopropyltoluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:30	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			05/20/2016 13:30	RLD	EPA 8260C
Styrene	<0.050	ug/L	0.050	0.15	1			05/20/2016 13:30	RLD	EPA 8260C
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			05/20/2016 13:30	RLD	EPA 8260C
Tetrachloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:30	RLD	EPA 8260C
Tetrahydrofuran	<0.60	ug/L	0.60	2.1	1			05/20/2016 13:30	RLD	EPA 8260C
Toluene	<0.060	ug/L	0.060	0.21	1			05/20/2016 13:30	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.20	1			05/20/2016 13:30	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.014	ug/L	0.014	0.048	1			05/20/2016 13:30	RLD	EPA 8260C
Trichloroethene	<0.030	ug/L	0.030	0.10	1			05/20/2016 13:30	RLD	EPA 8260C
Trichlorofluoromethane	< 0.050	ug/L	0.050	0.18	1			05/20/2016 13:30	RLD	EPA 8260C

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CT LAB Sample#: 725712 Sample Description: TB-5 License/Well #: 4189/999 Sampled: 05/18/2016

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Tim	•	t Method
Vinyl acetate	<0.50	ug/L	0.50	1.6	1			05/20/2016 1	3:30 RL	D EPA 8260C
Vinyl chloride	<0.016	ug/L	0.016	0.052	1			05/20/2016 1	3:30 RL	D EPA 8260C

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Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Reason for Revision Incorrect field data were provided for TW-202I.

Submitted by: Brett M. Szymanski Project Manager 608-356-2760

QC Qualifiers

Code	Description	Current CT Laboratories Certifications
B	Analyte detected in the associated Method Blank.	Kansas NELAP ID# E-10368
С	Toxicity present in BOD sample.	Kentucky ID# 0023
D	Diluted Out.	ISO/IEC 17025-2005 A2LA Cert # 3806.01
E	Safe, No Total Coliform detected.	
F	Unsafe, Total Coliform detected, no E. Coli detected.	North Carolina ID# 674
G	Unsafe, Total Coliform detected and E. Coli detected.	Wisconsin (WDNR) Chemistry ID# 157066030
Н	Holding time exceeded.	Wisconsin (DATCP) Bacteriology ID# 105-289
I	BOD incubator temperature was outside acceptance limits during test period.	DoD-ELAP A2LA 3806.01
J	Estimated value.	GA EPD Stipulation ID E871111, Expires Annually
L	Significant peaks were detected outside the chromatographic window.	Louisiana ID # 115843
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.	Virginia ID# 7608
N	Insufficient BOD oxygen depletion.	Illinois NELAP ID # 002413
0	Complete BOD oxygen depletion.	
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.	Wisconsin (WOSB) ID# WI-5499-WBE
Q	Laboratory Control Sample outside acceptance limits.	Maryland ID# 344
R	See Narrative at end of report.	
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.	
T	Sample received with improper preservation or temperature.	
U	Analyte concentration was below detection limit.	
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.	
W	Sample amount received was below program minimum.	
Χ	Analyte exceeded calibration range.	
Υ	Replicate/Duplicate precision outside acceptance limits.	
Z	Specified calibration criteria was not met.	

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QC SUMMARY REPORT

TETRA TECH Project Name: WDNR OCONOMOWOC

ELECTROPLATING

Amalusta		00 11=i+=		Overliffer(a) Chiles	0/	Control	DDD DDD
Parent Sample #:	725700	Analyst:	JJF	Prep Analyst:			
CTLab #:	727274	Analysis Time:	21:43	Prep Date/Time:		Method:	SW9060
Analytical Run #:	126148	Analysis Date:	05/23/2016	Prep Batch #:		Matrix:	GROUND WATER

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Total Organic Carbon	1.97	mg/L	2.8					35	20	

ELECTROPLATING

				Lab Contro	I Spike Wate	r				
Analytical Run #:	126148	Analys	is Date:	05/23/2016	Prep Batch #:			Matrix:	LIQUII)
CTLab #:	727270	Analys	is Time:	18:22	Prep Date/Tim	ne:		Method:	SW906	60
Parent Sample #:		Analys	t:	JJF	Prep Analyst:					
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		53.41	mg/L			50.00	107	85 111		

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

				Method E	Blank Water					
Analytical Run #: CTLab #: Parent Sample #:	126148 727266	•	sis Date: sis Time: st:	05/23/2016 18:36 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matrix: Method:	LIQUII SW90	
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
otal Organic Carbon		0.5	mg/L		U	0		0.5		

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ELECTROPLATING

				Matrix Spike	Duplicate Wa	nter						
Analytical Run #: CTLab #: Parent Sample #:	126148 727276 727275	•	is Date: is Time: t:	05/23/2016 22:11 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matr Meth			GROU SW90	IND WATER 60
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro	-	RPD	RPD Limit
otal Organic Carbon		50.0	mg/L	2.8		50.0	94	82		119	3	6

ELECTROPLATING

				Matrix S	pike Water						
Analytical Run #: CTLab #: Parent Sample #:	126148 727275 725700	,	is Date: is Time: t:	05/23/2016 21:57 JJF	Prep Batch #: Prep Date/Tim Prep Analyst:	ne:		Matri: Meth		GROU SW90	JND WATER 60
Analyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ntrol nits	RPD	RPD Limit
Total Organic Carbon		51.6	mg/L	2.8		50.0	98	82	119		6

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

Duj	olicate		
05/19/2016	Prep Batch #:	Matrix:	GROUND WATER

SW9056A

CTLab #:	726023	Analysis Time:	22:17	Prep Date/Time:	Method:
Parent Sample #:	725689	Analyst:	JJF	Prep Analyst:	

Analysis Date:

· ·										
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Total Chloride	57.1	mg/L	57					0	20	
Total Sulfate	68.3	mg/L	69					1	20	

Date Printed: 06/14/2016

Analytical Run #:

126221

ELECTROPLATING

Lab Control S	pike Water
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Analytical Run #:	126221	Analysis Date:	05/19/2016	Prep Batch #:	Matrix:	LIQUID	
CTLab #:	726015	Analysis Time:	13:38	Prep Date/Time:	Method:	SW9056A	
Parent Sample #:		Analyst:	JJF	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	14.65	mg/L			15.00	98	80 120		
Sulfate	25.71	mg/L			25.00	103	80 120		

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

Analytical Run #:	126221	Analysis Date:	05/19/2016	Prep Batch #: Prep Date/Time:	Matrix:	LIQUID
CTLab #:	726016	Analysis Time:	13:57		Method:	SW9056A
Parent Sample #:		Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Chloride	0.7	mg/L		U	0		0.7		
Sulfate	0.5	mg/L		U	0		0.5		

Date Printed: 06/14/2016

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

Matrix S	Spike	Water
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Analytical Run #:	126221	Analysis Date:	05/19/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	726024	Analysis Time:	22:36	Prep Date/Time:	Method:	SW9056A
Parent Sample #:	725689	Analyst:	JJF	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Chloride	101	mg/L	57		40.0	110	80 120		20
Total Sulfate	110	mg/L	69		40.0	102	80 120		20

Date Printed: 06/14/2016

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

				Lab Contro	ol Spike Water	r				
Analytical Run #:	126280	Analys	is Date:	05/20/2016	Prep Batch #:			Matrix:	LIQUIE)
CTLab #:	726462	Analys	is Time:	15:31	Prep Date/Tim	ne:		Method:	E310.2	
Parent Sample #:		Analys	t:	LJS	Prep Analyst:					
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
lkalinity		368.0	mg/L			375.0	98	90 110		

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ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

				Method E	Blank Water					
Analytical Run #:	126280	Analys	is Date:	05/20/2016	Prep Batch #:			Matrix:	LIC	UID
CTLab #:	726463	Analys	is Time:	15:32	Prep Date/Tim	ne:		Method:	E3′	10.2
Parent Sample #:		Analys	st:	LJS	Prep Analyst:					
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RP	D RPD Limit
lkalinity		5	mg/L		U	0			5	

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ELECTROPLATING

Duplicate

Analytical Run #:	126281	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	GROUND WATER
CTLab #: Parent Sample #:	726521 725710	Analysis Time: Analyst:	15:26 DC	Prep Date/Time: Prep Analyst:	Method:	E310.2

· ·	•									
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit	
Alkalinity Dissolved	372	mg/L	370					1	10	
Alkalinity Total	372	mg/L	370					1	7	

ELECTROPLATING

				Lab Contro	ol Spike Wate	r				
Analytical Run #:	126281	Analys	is Date:	05/20/2016	Prep Batch #:			Matrix:	LIQUIE)
CTLab #:	726464	Analys	is Time:	15:05	Prep Date/Tim	ne:		Method:	E310.2	
Parent Sample #:		Analys	t:	LJS	Prep Analyst:					
nalyte		QC sample result	Units	Parent sample result		Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
lkalinity		368.0	mg/L			375.0	98	90 110		

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

				Method E	Blank Water						
Analytical Run #:	126281	•	is Date:	05/20/2016	Prep Batch #:			Matrix:		QUID	
CTLab #:	726465	Analys	is Time:	15:06	Prep Date/Tim	ne:		Method:	E3	310.2	
Parent Sample #:		Analys	it:	LJS	Prep Analyst:						
nalyte		QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RF		RPD Limit
lkalinity		5	mg/L		U	0			5		

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ELECTROPLATING

Ī	Analytical Run #: CTLab #:	126219 727192	Analysis Date: Analysis Time:	05/20/2016 17:05	Prep Batch #: Prep Date/Time:	Matrix: Method:	GROUND WATER SW6010
	Parent Sample #:	727192 727191	Analysis Time: Analyst:	DC	Prep Date/Time. Prep Analyst:	Metriod.	SW6010

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	_	ontro imit		RPD	RPD Limit
Iron	3.60	mg/L	1.54		2.00	103	72		113	1	18
Manganese	1000	ug/L	34.2		1000	97	67		121	5	13

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

Matrix Spike Water	Matrix	Spike	Water	
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Analytical Run #: CTLab #:	126219 727191	Analysis Date: Analysis Time:	05/20/2016 16:59	Prep Batch #: Prep Date/Time:	Matrix: Method:	GROUND WATER SW6010
Parent Sample #:	725688	Analyst:	DC	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	3.65	mg/L	1.54		2.00	106	72 113		18
Manganese	952	ug/L	34.2		1000	92	67 121		13

Date Printed: 06/14/2016

ELECTROPLATING

Lab Control S	pike Water
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Analytical Run #: CTLab #:	126328 726935	Analysis Date: Analysis Time:	05/25/2016 22:26	Prep Batch #:	57387 05/23/2016 12:00	Matrix:	LIQUID SW6010
Parent Sample #:	720933	Analyst:	NAH	Prep Analyst:	NAH	Metrioa.	300010

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.4150	mg/L			0.4000	104	80 115		
Manganese	214.0	ug/L			200.0	107	86 112		

ELECTROPLATING

84-411	DII-	14/- (
Method	Biank	vvater

Analytical Run #:	126328	Analysis Date:	05/25/2016	Prep Batch #:	57387	Matrix:	LIQUID
CTLab #:	726934	Analysis Time:	22:33	Prep Date/Time:	05/23/2016 12:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	` ,	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	0.02	mg/L		U	0		0.02		
Manganese	1.4	ug/L		U	0		1.4		

ELECTROPLATING

Matrix S	Spike	Duplicate	Water
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Analytical Run #:	126328	Analysis Date:	05/25/2016	Prep Batch #:	57387	Matrix:	GROUND WATER
CTLab #:	726937	Analysis Time:	22:52	Prep Date/Time:	05/23/2016 12:00	Method:	SW6010
Parent Sample #:	726936	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	1.78	mg/L	1.40		0.400	95	72 118	2	11
Manganese	250	ug/L	37.7		200	106	84 111	0	7

ELECTROPLATING

Matrix	Spike	Water
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Analytical Run #:	126328	Analysis Date:	05/25/2016	Prep Batch #:	57387	Matrix:	GROUND WATER
CTLab #:	726936	Analysis Time:	22:46	Prep Date/Time:	05/23/2016 12:00	Method:	SW6010
Parent Sample #:	725682	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Iron	1.82	mg/L	1.40		0.400	105	72 118		
Manganese	249	ug/L	37.7		200	106	84 111		

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

Lab Control Spike Water

Analytical Run #:	126102	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	726317	Analysis Time:	11:36	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Parent Sample #:	Analys	St: KL	.U	Prep Analyst:					
Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.89	ug/L			4.00	97	74 127		
1,1,1-Trichloroethane	3.84	ug/L			4.00	96	73 132		
1,1,2,2-Tetrachloroethane	4.18	ug/L			4.00	104	67 129		
1,1,2-Trichloroethane	4.02	ug/L			4.00	100	73 129		
1,1-Dichloroethane	4.06	ug/L			4.00	102	73 129		
1,1-Dichloroethene	4.10	ug/L			4.00	102	73 132		
1,1-Dichloropropene	3.96	ug/L			4.00	99	75 125		
1,2 Dichloroethane-d4	94.0	% Recovery			100	94.0	68 120		
1,2,3-Trichlorobenzene	3.96	ug/L			4.00	99	72 125		
1,2,3-Trichloropropane	4.18	ug/L			4.00	104	68 136		
1,2,4-Trichlorobenzene	4.21	ug/L			4.00	105	67 124		
1,2,4-Trimethylbenzene	4.09	ug/L			4.00	102	77 123		
1,2-Dibromo-3-chloropropane	3.90	ug/L			4.00	98	56 138		
1,2-Dibromoethane	4.06	ug/L			4.00	102	76 127		
1,2-Dichlorobenzene	4.04	ug/L			4.00	101	82 120		
1,2-Dichloroethane	4.15	ug/L			4.00	104	72 134		
1,2-Dichloropropane	4.10	ug/L			4.00	102	76 124		
1,3,5-Trimethylbenzene	4.06	ug/L			4.00	102	77 124		
1,3-Dichlorobenzene	3.94	ug/L			4.00	98	81 120		
1,3-Dichloropropane	4.11	ug/L			4.00	103	76 125		
1,4-Dichlorobenzene	3.92	ug/L			4.00	98	80 120		
2,2-Dichloropropane	4.10	ug/L			4.00	102	54 144		
2-Butanone	42.7	ug/L			40.0	107	57 144		
2-Chlorotoluene	4.07	ug/L			4.00	102	77 123		
2-Hexanone	43.7	ug/L			40.0	109	61 132		
4-Chlorotoluene	4.00	ug/L			4.00	100	76 124		
4-Methyl-2-pentanone	45.9	ug/L			40.0	115	64 135		
Acetone	37.7	ug/L			40.0	94	51 152		
Benzene	4.04	ug/L			4.00	101	80 122		
Bromobenzene	3.97	ug/L			4.00	99	81 120		
Bromochloromethane	3.71	ug/L			4.00	93	78 126		
Bromodichloromethane	3.91	ug/L			4.00	98	67 132		
Bromofluorobenzene	95.0	% Recovery			100	95.0	68 120		
Bromoform	4.00	ug/L			4.00	100	55 132		
Bromomethane	4.65	ug/L			4.00	116	65 141		
Carbon disulfide	7.80	ug/L			8.00	98	61 140		
Carbon tetrachloride	3.85	ug/L			4.00	96	72 133		
Chlorobenzene	4.13	ug/L			4.00	103	80 122		
Chloroethane	4.67	ug/L			4.00	117	71 134		
Chloroform	3.95	ug/L			4.00	99	73 127		
Chloromethane	4.43	ug/L			4.00	111	72 128		
cis-1,2-Dichloroethene	3.92	ug/L			4.00	98	76 127		

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ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

Lab Control Spike Water

Analytical Run #:	126102	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	726317	Analysis Time:	11:36	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery		ontro imit		RPD	RPD Limit
cis-1,3-Dichloropropene	3.97	ug/L			4.00	99	72		125		
d8-Toluene	98.0	% Recovery			100	98.0	71		117		
Dibromochloromethane	4.03	ug/L			4.00	101	60		131		
Dibromofluoromethane	98.0	% Recovery			100	98.0	67		121		
Dibromomethane	4.08	ug/L			4.00	102	76		129		
Dichlorodifluoromethane	3.92	ug/L			4.00	98	64		149		
Diisopropyl ether	4.17	ug/L			4.00	104	62		137		
Ethylbenzene	4.22	ug/L			4.00	106	80		121		
Hexachlorobutadiene	4.35	ug/L			4.00	109	71		131		
sopropylbenzene	4.22	ug/L			4.00	106	75		122		
n & p-Xylene	8.34	ug/L			8.00	104	80		121		
Methyl tert-butyl ether	4.12	ug/L			4.00	103	63		135		
Methylene chloride	4.60	ug/L			4.00	115	38		174		
n-Butylbenzene	4.15	ug/L			4.00	104	71		125		
n-Propylbenzene	4.10	ug/L			4.00	102	76		122		
Naphthalene	3.87	ug/L			4.00	97	64		126		
o-Xylene	4.19	ug/L			4.00	105	77		120		
o-Isopropyltoluene	4.31	ug/L			4.00	108	76		122		
sec-Butylbenzene	4.03	ug/L			4.00	101	75		122		
Styrene	4.12	ug/L			4.00	103	76		121		
ert-Butylbenzene	4.12	ug/L			4.00	103	77		120		
etrachloroethene	4.05	ug/L			4.00	101	75		127		
etrahydrofuran	45.5	ug/L			40.0	114	60		131		
oluene	4.03	ug/L			4.00	101	80		122		
rans-1,2-Dichloroethene	4.09	ug/L			4.00	102	68		136		
rans-1,3-Dichloropropene	4.05	ug/L			4.00	101	65		126		
richloroethene	3.97	ug/L			4.00	99	78		126		
richlorofluoromethane	4.26	ug/L			4.00	106	70		145		
/inyl acetate	41.0	ug/L			40.0	102	38		152		
/inyl chloride	4.55	ug/L			4.00	114	71		135		

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

Method Blank Water

Ī	Analytical Run #:	126102	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	LIQUID	
	CTLab #:	726416	Analysis Time:	12:33	Prep Date/Time:	Method:	SW8260C	
	Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.05	ug/L		U	0		0.05		
1,1,1-Trichloroethane	0.06	ug/L		U	0		0.06		
1,1,2,2-Tetrachloroethane	0.020	ug/L		U	0		0.020		
1,1,2-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1-Dichloroethane	0.06	ug/L		U	0		0.06		
1,1-Dichloroethene	0.07	ug/L		U	0		0.07		
1,1-Dichloropropene	0.06	ug/L		U	0		0.06		
1,2 Dichloroethane-d4	104	% Recovery			100	104	68 120		
1,2,3-Trichlorobenzene	0.05	ug/L		U	0		0.05		
1,2,3-Trichloropropane	0.04	ug/L		U	0		0.04		
1,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,4-Trimethylbenzene	0.05	ug/L		U	0		0.05		
1,2-Dibromo-3-chloropropane	0.03	ug/L		U	0		0.03		
1,2-Dibromoethane	0.04	ug/L		U	0		0.04		
1,2-Dichlorobenzene	0.06	ug/L		U	0		0.06		
1,2-Dichloroethane	0.04	ug/L		U	0		0.04		
1,2-Dichloropropane	0.06	ug/L		U	0		0.06		
1,3,5-Trimethylbenzene	0.06	ug/L		U	0		0.06		
1,3-Dichlorobenzene	0.06	ug/L		U	0		0.06		
1,3-Dichloropropane	0.04	ug/L		U	0		0.04		
1,4-Dichlorobenzene	0.05	ug/L		U	0		0.05		
2,2-Dichloropropane	0.04	ug/L		U	0		0.04		
2-Butanone	0.8	ug/L		U	0		0.8		
2-Chlorotoluene	0.06	ug/L		U	0		0.06		
2-Hexanone	0.4	ug/L		U	0		0.4		
4-Chlorotoluene	0.05	ug/L		U	0		0.05		
4-Methyl-2-pentanone	0.4	ug/L		U	0		0.4		
Acetone	29.1	ug/L			0		0.9		
Benzene	0.06	ug/L		U	0		0.06		
Bromobenzene	0.04	ug/L		U	0		0.04		
Bromochloromethane	0.017	ug/L		U	0		0.017		
Bromodichloromethane	0.017	ug/L		U	0		0.017		
Bromofluorobenzene	100	% Recovery			100	100	68 120		
Bromoform	0.018	ug/L		U	0		0.018		
Bromomethane	0.09	ug/L		U	0		0.09		
Carbon disulfide	0.11	ug/L		U	0		0.11		
Carbon tetrachloride	0.06	ug/L		U	0		0.06		
Chlorobenzene	0.04	ug/L		U	0		0.04		
Chloroethane	0.06	ug/L		U	0		0.06		
Chloroform	0.06	ug/L		U	0		0.06		
Chloromethane	0.05	ug/L		U	0		0.05		
cis-1,2-Dichloroethene	0.06	ug/L		U	0		0.06		

CTLaboratories LLC 1230 Lange Court • Baraboo, WI 53913 • 608-356-2760 www.ctlaboratories.com TETRA TECH Project Name: WDNR OCONOMOWOC

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

Method Blank Water

Analytical Run #:	126102	Analysis Date:	05/20/2016	Prep Batch #:	Matrix:	LIQUID
CTLab #:	726416	Analysis Time:	12:33	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent of sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.015	ug/L		U	0		0.015		
d8-Toluene	102	% Recovery			100	102	71 117		
Dibromochloromethane	0.016	ug/L		U	0		0.016		
Dibromofluoromethane	100	% Recovery			100	100	67 122		
Dibromomethane	0.06	ug/L		U	0		0.06		
Dichlorodifluoromethane	0.06	ug/L		U	0		0.06		
Diisopropyl ether	0.04	ug/L		U	0		0.04		
Ethylbenzene	0.06	ug/L		U	0		0.06		
Hexachlorobutadiene	0.07	ug/L	ı	U	0		0.07		
sopropylbenzene	0.05	ug/L	ı	U	0		0.05		
n & p-Xylene	0.12	ug/L	ı	U	0		0.12		
Methyl tert-butyl ether	0.04	ug/L	ı	U	0		0.04		
Methylene chloride	0.343	ug/L			0		0.06		
n-Butylbenzene	0.05	ug/L	Į	U	0		0.05		
n-Propylbenzene	0.05	ug/L	l	U	0		0.05		
Naphthalene	0.05	ug/L	Į	U	0		0.05		
o-Xylene	0.05	ug/L	ı	U	0		0.05		
o-Isopropyltoluene	0.06	ug/L	Į	U	0		0.06		
ec-Butylbenzene	0.05	ug/L	ı	U	0		0.05		
Styrene	0.05	ug/L	Į	U	0		0.05		
ert-Butylbenzene	0.06	ug/L	ı	U	0		0.06		
etrachloroethene	0.06	ug/L	ı	U	0		0.06		
etrahydrofuran	0.636	ug/L			0		0.6		
oluene	0.06	ug/L	ı	U	0		0.06		
rans-1,2-Dichloroethene	0.06	ug/L	ı	U	0		0.06		
ans-1,3-Dichloropropene	0.014	ug/L	ı	U	0		0.014		
richloroethene	0.03	ug/L	ı	U	0		0.03		
richlorofluoromethane	0.05	ug/L	ı	U	0		0.05		
/inyl acetate	0.5	ug/L	ı	U	0		0.5		
/inyl chloride	0.016	ug/L	ı	U	0		0.016		

TETRA TECH Project Name: WDNR OCONOMOWOC

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

Lab Control Spike Water	er
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Analytical Run #:	126212	Analysis Date:	05/20/2016	Prep Batch #:	57335	Matrix:	LIQUID
CTLab #:	726045	Analysis Time:	10:38	Prep Date/Time:	05/20/2016 09:05	Method:	RSK175
Parent Sample #:		Analyst:	AMA	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Cont Limi		RPD	RPD Limit
Acetylene	2.31	ug/L			3.07	75	70	130		20
Ethane	4.45	ug/L			4.78	93	70	130		20
Ethene	6.44	ug/L			6.79	95	65	124		20
Methane	2.21	ug/L			2.29	97	70	130		20

TETRA TECH Project Name: WDNR OCONOMOWOC

ELECTROPLATING

SDG #: 0 Folder #: 119119 Project Number: 117-741300.01

Method Blank Water	
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Analytical Run #:	126212	Analysis Date:	05/20/2016	Prep Batch #:	57335	Matrix:	LIQUID
CTLab #:	726044	Analysis Time:	10:52	Prep Date/Time:	05/20/2016 09:05	Method:	RSK175
Parent Sample #:		Analyst:	AMA	Prep Analyst:	AMA		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Acetylene	0.23	ug/L		U	0		0.23		
Ethane	0.4	ug/L		U	0		0.4		
Ethene	0.5	ug/L		U	0		0.5		
Methane	0.4	ug/L		U	0		0.4		



Sample Condition Report

Folder #: 119119 Print Date / Time: Client: TETRA TECH

11:08 05/19/2016

Received Date / Time / By:

05/19/2016 1020

1108

JLS

Project Name: WDNR OCONOMOWOC ELECTROPLATING

Log-In Date / Time / By: Project #:

05/19/2016

BNA

Project Phase:

117-741300.01

PM: BMS

Coolers: 5651

Custody Seals Present: Y

Temperature: COC Present:?

3.8 C Complete?

Υ On Ice:

Seal Intact?

Adequate Packaging: Y

FEDEX Ship Method:

Numbers:

NOT PRESENT

Tracking Number:

0201783132381256

Temp Blank Enclosed?

Υ

Υ

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

NO CUSTODY SEALS WERE PRESENT; TAPE WAS INTACT.

Sample II) / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
	MW-102D	UNPRES PL Total # of Containers	1 of Type (<i>Ul</i>	NPRES PL) = 1	ALK,Anions
725682	MW-102D				
		VOA HCL	1	/	GAS, VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS, VOC
		VOA HCL	1	/	GAS, VOC
		VOA HCL	1	/	GAS, VOC
		VOA HCL	1	/	GAS, VOC
		Total # of Containers	of Type (V	$OA\ HCL\) = 6$	
725682	MW-102D				
		HNO3	1	Υ /	ICP
		Total # of Containers	of Type (<i>Hi</i>	VO3) = 1	
725682	MW-102D				
		H2SO4 PL	1	Υ /	TOC
		Total # of Containers	of Type (<i>H</i> 2	2SO4 PL) = 1	
Sample II) / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
725688	MW-102D				
		HNO3 Total # of Containers	1 of Type (<i>HI</i>	Y / VO3) = 1	ICP
) i · · · · · · · · · · · · · · · · · ·	,	
Sample II) / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
	MW-103S				

		UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
725689	MW-103S	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
725689	MW-103S	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
725689	MW-103S	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	TOC
Sample IE	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
725690	MW-103S	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID	D / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
725691	MW-103D	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
725691	MW-103D	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
725691	MW-103D	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
25691	MW-103D	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	TOC
Sample IE	O / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
725694	MW-103D	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP

Sample II	D / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
725695	MW-103D DUP	UNPRES PL Total # of Containe	1 ers of Type (/ UNPRES PL) = 1	ALK,Anions
				· · · · · · · · · · · · · · · · · · ·	
725695	MW-103D DUP				
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL	1	/	GAS,VOC
		VOA HCL Total # of Containe	ers of Type (<i>VOA HCL</i>) = 6	GAS,VOC
			, , , , , , , , , , , , , , , , , , ,	, ,	
725695	MW-103D DUP				
		HNO3	1	Υ /	ICP
		Total # of Containe	ers of Type (<i>HNO3</i>) = 1	
725695	MW-103D DUP				
		H2SO4 PL	1	Υ /	TOC
		Total # of Containe		H2SO4 PL) = 1	
				, ,	
Sample II	D / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
725696	MW-103D DUP	HNO3	1	Υ /	ICP
		Total # of Containe	ers of Type (<i>HNO3</i>) = 1	
Sample II	D / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
725697	OW-6				
		UNPRES PL	1	/	ALK, Anions
		Total # of Containe	ers of Type (UNPRES PL) = 1	
725697	OW-6				
	J * * U	VOA HCL	1	/	GAS,VOC
		VOA HCL	1	,	GAS, VOC
		VOA HCL	1	,	GAS, VOC
		VOA HCL	1	,	GAS, VOC
		VOA HCL	1	,	GAS,VOC
		VOA HCL	1	,	GAS, VOC
		Total # of Containe	ers of Type (<i>VOA HCL</i>) = 6	5.10,100
25697	OW-6	HNO3	1	Υ /	ICP
		Total # of Containe		<i>HNO</i> 3) = 1	IOF
25697	OW-6	H2SO4 PL	1	Υ /	TOC
		Total # of Containe		H2SO4 PL) = 1	100
		iotai # oi containe	cia oi i ype (1,200412) - 1	

Sample ID / Description	Container Type Cond. Code pH OK?/Filtered	? Tests
725698 OW-6		
	HNO3 1 Y / Total # of Containers of Type ($HNO3$) = 1	ICP
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered	? Tests
725700 MW-2D		
723700 MW-2D	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
725700 MW-2D		
NW ZD	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
725700 MW-2D	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
725700 MW-2D		
ZOTOC INIVIZED	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	TOC
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered	? Tests
725701 MW-2D	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered	? Tests
725708 MW-3D	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
725708 MW-3D	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
725708 MW-3D	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP

725708 MW-3D		
720700 INIVV 3D	H2SO4 PL 1 Y / Total # of Containers of Type $(H2SO4 PL) = 1$	TOC
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
725709 MW-3D	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
725710 TW-202I	UNPRES PL 1 / Total # of Containers of Type (UNPRES PL) = 1	ALK,Anions
725710 TW-202I	VOA HCL 1 / Total # of Containers of Type (VOA HCL) = 6	GAS,VOC GAS,VOC GAS,VOC GAS,VOC GAS,VOC
725710 TW-202I	HNO3 1 Y / Total # of Containers of Type (HNO3) = 1	ICP
725710 TW-202I	H2SO4 PL 1 Y / Total # of Containers of Type (H2SO4 PL) = 1	TOC
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
725711 TW-202I	HNO3 1 / Total # of Containers of Type (HNO3) = 1	ICP
Sample ID / Description	Container Type Cond. Code pH OK?/Filtered?	Tests
725712 TB-5	Trip Blank 1 / Total # of Containers of Type (<i>Trip Blank</i>) = 1	voc

Condition CodeCondition Description1Sample Received OK

Rev. 3/2015 CHAIN OF C	USTO	DY				_										— De		T-		
Company: Tetra Tech Project Contact: Mark Markhey (I LABORAI)			A					Cour 5-2760			, WI 8-356		6	Report EMAII	To: L: MOY	۲.۱	mavi	they@t		h.car
Telephone: 2602 792 1282	*****	***	()4()4	. M M 4 P	****	rai	—— m:	w	vw.cti				m l	Comp	anv: Tr	ተት	NOT TO	ecn Corpana 53041		
Project Name: WDNR CCOMMON Folder # 119119 Project #: 112-7413601.01 Location: OCMOMONOC. WI Sampled By: TENATECH Project: OCONONOW Logged By: BNA P	ōc El	EC	**************************************	k W W M M	e # X#: n. X # X	(her _					Invoice EMAII Comp Addre	To:* L: any: ess:		•			
Client Special Instructions	T^{-}	Т			<u>.</u>		••••					, ie jui	puyi	nent of	invoice as	, pe	27 C1 Lai	boratories' to		
Matrix: GW – groundwater SW - surface water WW - wastewater DW - drinking water S - soil/sediment SL - sludge A - air M - misc/waste	Filtered? Y/N	137	ICP DISCUES	ICP Metals	aikCMoildel	Meson, eth, ethe,	VOCI Salab Itan Ievel	'SES R	REQU	ESTE	D				Total # Containers		5	Norm Date Need Rush analy CT Labora Sur 24	sis requir	es prior pproval
Date Time Matrix Grab/ Sample Sample ID Description	<u> </u>	L				F	ill in S	paces	s with	Bot	tles p	er T	est						Lab ID #	t
5-18 1010 aw grab MW-102D	 	1	1	1	1		3	_							0			725682		288-
1050 MW-1030	 	1	17	1	17	1	3	_	 	-					10			725 be		7696
140 mu-103D 145 mu-103D Dup	 	H	11	1	1	3	3	- -	+	 	<u> </u>				10	-		22589 1		694
1225 00-10	 		+	1	1		기	+	╁	_				-	10	_		<u>72569s</u>		5696
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M30 MW-3D	 	1	i	1	7	+-	귓	+	+						10	-		<u>125 708</u>		5701 5709
1W-202T		Π	1	1		1-1	3	\top	\top	t					to	\vdash		125710		<u>5-70 </u> S-7/1
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CT Laboratories Terms and Conditions

Where a purchaser (Client) places an order for laboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by CTL in advance of the project and in writing.

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

- 1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submiting a purchase order to CTL in witting, by telephone (confirmed in writing) or by negotiated contract. Whichever option the Client selects for placing the Order, the Order shall not be valid unless it contains sufficient specification to enable CTL to carry out the Client's requirements. It is the policy of CT Laboratories that samples not meeting the acceptance criteria, outlined in the NELAC standards and Section 5.8.3.2 of the DOD QSM, will not be accepted by the jaboratory or will be qualified on the final report. All samples submitted to the laboratory must: (1) be accompanied by the jaboratory or will be qualified on the client selection, the collection, the collection is unable to obtain the information, the laboratory will attempt to contact the client to obtain the information; if unable to obtain the necessary information, the final report will be qualified. (2) be labeled appropriately with a unique sample identification written with indelible ink on water resistant labels. If the laboratory cannot determine the identity of a sample, it will be rejected and the client will be contacted for further instructions or resampling. (3) be in an appropriate sample container. If the container is inappropriate, the client will be contacted for further instructions for analytical methods requested. (4) adhere to specified holding times are received with less than ½ the holding time remaining for the requested test, CT Laboratories will make its best effort to analyze the samples and notify the client. If holding times are exceeded, the final report will be qualified. (5) contain adequate sample volume to performed, the final report will be rejected and the client will be contacted for further instructions or resampling. If samples show signs of damage, contamination or inadequate preservation, the client will be contacted for further i
- 1.2 CT Laboratories must be supplied with complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.
- 1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or liability for the action of any carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule, trivoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overdure payments are subject to an additional interest and service charge of one and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. CTL reserves the right to refuse to proceed with work at any time based upon an unflavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

- 3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in witting.
- 3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.
- 3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

- 4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Manuals then in effect, and CTL will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.
- 4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Acceptance does not occur within this period, CTL will use its best efforts to meet holding times and will proceed with the work provided that, in CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of feilure to meet any Quality Manual requirements, the warranty will be deemed to have been met.
- 4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any decertification or revocation of any license, or notice of either, which affects work in progress.
- 4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way.
- 4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be limited to repeating any services performed, contingent on the Client's providing, at the client's expense, additional sample(s) if necessary. Any reanalysis requested by the Chent generating Results consistent with the original Results will be at the Client's expense, if resampting is necessary, CTL's fability for resampting costs will be limited to actual cost or one hundred or one hundred fifty dollars (\$150) per sample, whichever is less.
- 4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negogence or otherwise, shall be limited to the fesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.
- 4.7 In no event shall CTL have any responsibility to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural dissisters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or cleaves in transportation, mail or delivery services, or any other cause beyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

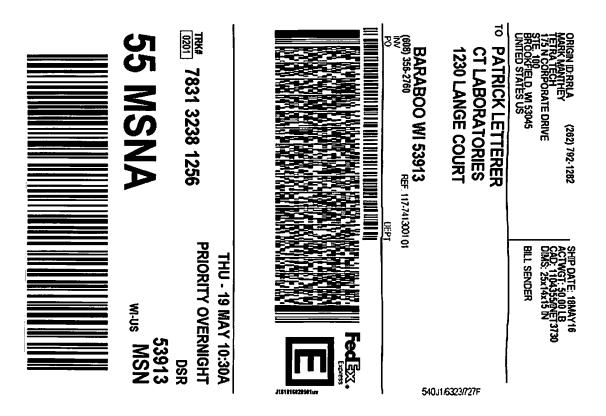
- 5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.
- 5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has falled to pay CTL for all services rendered or is otherwise in breach of these Terms and Conditions), publicated any disclosure required by law or legal process.
- 5.3 Should the Results delivered by CTL be used by the Client or Client or Client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold CTL's right to independently defend its data.
- all applicable warranties, guarantees and insurance are those of the subcontracted laboratory, or laboratories, if, in CTL's sole judgment, it is reasonably necessary, appropriate or advisable to do so, and with the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and insurance are those of the subcontracted laboratory.
- 5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable Federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at their own expense. CTL reserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated wasto disposal vendor(s).
- 5.6 Unless a different time ponod is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records for five (5) years.
- 5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the triggation.

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liabitry insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period. Comprehensive General and Contractual Liability (limit of \$2,000,000 per occurrence/aggregate). Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), and Professional/Poliution Liability Insurance (limit of \$5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7. AUDIT

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Ctent, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices



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Szymanski, Brett M

From: Manthey, Mark <Mark.Manthey@tetratech.com>

Sent: 06/16/2016 17:34 **To:** Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Yes, the value is wrong. The DO value for MW-12M should be 0.93

Thanks again.

Mark A. Manthey, P.G. | Associate Hydrogeologist Office: 262-792-1282 ext. 271 | Fax: 262-792-1310

Mark.Manthey@tetratech.com

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175 N. Corporate Drive | Suite 100 | Brookfield, WI 53045 | www.tetratech.com



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From: Szymanski, Brett M [mailto:BSzymanski@ctlaboratories.com]

Sent: Thursday, June 16, 2016 4:58 PM

To: Manthey, Mark < Mark. Manthey@tetratech.com>

Subject: RE: Correct field parameters data for MW-13S sample

Hello Mark,

In looking at the field data, I'm assuming the DO for MW-12B is also incorrect? It looks like a conductivity reading.

Brett Szymanski

Project Manager CT Laboratories, LLC 1230 Lange Court Baraboo, WI 53913 Phone: 608-356-2760

Fax: 608-356-2766 www.ctlaboratories.com

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From: Manthey, Mark [mailto:Mark.Manthey@tetratech.com]

Sent: 06/16/2016 4:49 PM

To: Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Sorry again!

Found another error for the Dissolved Oxygen value for the TW-2021 sample (Sample ID = 75710). The correct DO value is 2.55 mg/L

725710 TW-202I Dissolved Oxygen (Field)	mg/L	5/18/2016	2.55
---	------	-----------	------

Mark A. Manthey, P.G. | Associate Hydrogeologist Office: 262-792-1282 ext. 271 | Fax: 262-792-1310

Mark.Manthey@tetratech.com

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From: Szymanski, Brett M [mailto:BSzymanski@ctlaboratories.com]

Sent: Thursday, June 16, 2016 4:44 PM

To: Manthey, Mark < Mark < Mark < Mark < Mark < Mark.Manthey@tetratech.com>

Subject: RE: Correct field parameters data for MW-13S sample

Hello Mark,

I'll get these field data updated with the correct information and send out revised analytical reports and EDDs by Monday, June 20th.

Have a good afternoon,

Brett Szymanski

Project Manager CT Laboratories, LLC 1230 Lange Court Baraboo, WI 53913 Phone: 608-356-2760

Fax: 608-356-2766 www.ctlaboratories.com

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From: Manthey, Mark [mailto:Mark.Manthey@tetratech.com]

Sent: 06/16/2016 4:41 PM **To:** Szymanski, Brett M

Subject: RE: Correct field parameters data for MW-13S sample

Hi Brett,

Sorry about this, but I found another error in the field parameters data I sent you. It is for the MW-101S sample. The correct field data is listed below:

Sample	Well ID	Analyte	Units	Date	Result
721951	MW-101S	Color (Field)		5/10/2016	Clear
721951	MW-101S	Conductivity (Field)	umhos/cm	5/10/2016	3180
		Dissolved Oxygen			
721951	MW-101S	(Field)	mg/L	5/10/2016	2.62
721951	MW-101S	OX/REDOX (Field)	MV	5/10/2016	336
721951	MW-101S	pH (Field)	S.U.	5/10/2016	6.82
721951	MW-101S	Temperature (Field)	Deg. C	5/10/2016	9.98
721951	MW-101S	Turbidity (Field)		5/10/2016	clear

Thanks again.

Mark A. Manthey, P.G. | Associate Hydrogeologist

Office: 262-792-1282 ext. 271 | Fax: 262-792-1310

Mark.Manthey@tetratech.com

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From: Manthey, Mark

Sent: Thursday, June 16, 2016 11:28 AM

To: 'BSzymanski@ctlaboratories.com' < <u>BSzymanski@ctlaboratories.com</u>>

Subject: Correct field parameters data for MW-13S sample

Brett,

Per our telephone conversation, below are the correct field parameters readings for the MW-13S sample:

Sample Date: 5/13/2016

Field Parameters

Dissolved Oxygen (DO) = 3.78 mg/L

Oxidation Reduction Potential = 130 millivolts

pH = 7.35

Specific Conductivity = 832 umhos/cm

Temperature = 12.29 deg-C Turbidity = 30.2 ntu

Thanks.

Mark A. Manthey, P.G. | Associate Hydrogeologist Office: 262-792-1282 ext. 271 | Fax: 262-792-1310 Mark.Manthey@tetratech.com

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APPENDIX C

FIELD PARAMETERS FORMS

TETRA TECH FIELD WATER LEVEL DATA SHEET

Project Number: 117-7413001.01 Project Name: Oconomowoc Electroplating

Location: Oconomowoc, WI Instrument: Heron

Personnel: Ashley Kowalewski Date: 11-2-15

Monitor Well/ Sample Port Identification	Date	Time	Depth to Groundwater (feet below top of casing)	Comments
MW-1S	11-2-15	1205	6.57	
MW-1D	11-2-15	1208	6,94	
MW-2D	11.2.15	1250	6.02	
MW-3D	11.2.15	1308	8.12	
MW-4S	11.2.15	1302	8.28	
MW-5D	11.2.15	1232	3.26	
MW-9S	11.2.15	1228	5.28	
MW-12S	11.2.15	1259	4.34	
MW12D	11.2.15	1362	4.06	
MW-12B	11.2.15	1257	4.11	
MW-13S	11.2.15	1350	5.96	
MW-13D	11.2.15	1348	4.82	
MW-15S	11.2.15	1359	Mag 9.39	
MW-15D	11-2-15	1355	9.99	
MW-15B	11.2.15	1352	1425	444
MW-16S		•		see Reld forms
MW-101S	11.12.15	1338	5.32	
MW-101B	11.2.15	1336	5.52	
MW-102S	11.2.15	1412	8.58	
MW-102D	11.2.15	1409	8.29	
MW-103S				see freid forms
MW-103D	11.2.15	1244	6.29	
MW-105S	11.2.15	1236	3.82	
MW-105D	11.2.15	1237	3.60	
MW-105B	11.2.15	1239	3.84	
TW-202I	11.2.15	/2009年	13:40 5.80	
OW-6	11.215	1248	6.69	
MW-14DR	11.2.15	1315	5.23	16
MW-104S	11.2.15	1207	4.59	
MW-104D	11-2-15	1220	4.10	
MW-106S	11.2.15	1422	4.41	202
MW-106D	11.2.15	1420	3.71	
MW-4D		1317	8.74	

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	PROJECT INF			IO AILD	INSTRUMENTS								
DOO IDOT	Occonomowoc E	•			Horiba U-52								
PROJECT NO.	117-7413001.01				Temp., pH, Conductivit		-						
LOCATION	Occonomowoc, WI				ORP	• •	_						
PERSONNEL	Ashley Kowalewski				DO		\downarrow		<u> </u>				
MONITOR V	VELL ID		MW-1S			MW-1D		MW-2D					
WATER TYPE		G	roundwate	∍r	G	roundwa	ter	G	roundwat	er			
DATE (month/o	day/year)	11	-3-15		11-	3-15		1	1.4.15	•			
·	R LEVEL (ft)*/TIME	6.60		38	6.94		102	10.1.		02			
WELL DEPTH	(feet)*					•			4				
PUMP INLET C	EPTH (feet)*												
ENDING WATE	R LEVEL (ft)*/TIME	6.12	2 1	153	10.72	. 1	115	8.5	5 1	325			
	E TIME (Military)	11	40			5	- 1 -/		05				
END PURGE T		i	155			15		, -	1328				
PURGE VOLU	ME (gallons)	1	.5			gal		1	.0				
SAMPLE TIME	(Military)		100		112				30				
INDICATOR PA	ARAMETERS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd			
TIME (minutes	3)	160	200	300	1:00	2:00 3:00		100	200	300			
TEMPERATUR	IE (° C)	17.21	17.23	17.22	15.73	73 15.76 1531		21.38	21.04	21.16			
рН		1.09	7.09	7.09	4.36	6.34	8.33	1.84	1.83	7.80			
ELEC. COND.	Measured	1.38	1.38	1.38	0.530	O.53	6.531	.781	.786	. 182			
(uS/cm)	-24250 CYUVO	00	0.6	0.0	0.0	0.0	MAZO	4.6	3.8	<i>ચે.</i> ૪			
ORP (mV)	(MTU)	હ&	48	69	-131	-132	11/255	P -109	-111	-111			
DISSOLVED C	XYGEN (ppm)	0.44	0.43	0.46	1.25	1.26	170100	4.44	.45	.46			
DISSOLVED C	XYGEN (% Sat.)	4.7	4.10	4.9	12.9	13.1	13.2	8.1	5.3	5.3			
COLOR		_CI	ear		C	lear			lear				
ODOR		· ·	one			none	•		hells				
CLARITY			ilear			Clear	_		Clea	/			
SAMPLING PA	ARAMETERS	# OF CON	ITAINERS &	VOLUME;	CONTAINER	TYPE (A:	AMBER; G=(ED) OR NEUT	GLASS; P=P	PLASTIC);				
	-								(1.00	, ,,,,			
					<u> </u>								
		1											
		1			 			 					
									•				
NAME OF LA	BORATORY	<u> </u>					<u> </u>	<u> </u>					
DATE SENT T		1			1			 					
	SAMPLER=S NAME				<u> </u>			 					
	op of well casing.				1			1					

^{&#}x27;Measured from top of well casing.



 $^{{\}tt P.WDNR\ Oconomowoc\ Electroplating \ Field\ Forms \ \ Fld_Water_Form_Low \cdot Flow_doc}$

	PROJECT INFORMATION						INSTRUMENTS								
PROJECT	Occonomowoc E	lectroplati	ng		Temp., pH,	1	lorib	a U-52							
PROJECT NO.	117-7413001.01				Conductivi	_									
LOCATION	Occonomowac, WI				ORP										
PERSONNEL	Ashley Kowalewski				DO	\neg		\							
MONITOR V	VELL ID		MW-3D			MW-4	S		MW-5D						
WATER TYPE		G	roundwate	er	G	roundv	vate	r	Groundwater						
DATE (month/d	day/year)]	1.4.15			1.4.1	7		1	1.3.15	, 				
STATIC WATE	R LEVEL (ft)*/TIME	8.4	5 13	45	8.6	2	15	02	3.32	13	520				
WELL DEPTH	(feet)*														
PUMP INLET D	EPTH (feet)*														
ENDING WATE	R LEVEL (ft)*/TIME	11.5	211	408	8.5	21	IS	28	3.1	9 1:	337				
START PURGE	TIME (Military)	1	345		_	505			13						
END PURGE T	IME (Military)		410			1529			1	337					
PURGE VOLU	ME (gallons)		1.5			1.0		·· 		25					
SAMPLE TIME	(Military)	- 14	116		1	53)		1'	340					
INDICATOR PA	ARAMETERS	1st	2nd	3rd	1st	2nd		3rd	1st	2nd	3rd				
TIME (minutes)	100	200	300	100	200		200	100	200	300				
TEMPERATUR	E (° C)	1382	13.85	13.18	18.11	18.0		14.02	18.17.	18.17	18.15				
рН		7.62	7.61	7.62	7.14	7.41		7.13	7.44	1.45	1.45				
ELEC. COND.	Measured	863	.862	املا	1.91	1.9	2	1,92	0.900		0.895				
(uS/cm)	-01-25° C TW6.	0.0	0.0	0.0	0.0	0.	0	0.0	9.6	9.1	9.4				
ORP (mV)	Kery	-102	-101	-101	79	79		79	-68	-67	-65				
DISSOLVED O	XYGEN (ppm)	-20	.19	.19	.47	.44	,	.46	0.60	0.60	0.59				
DISSOLVED O	XYGEN (% Sat.)	2.0	1.9	1,9	5.1	5.1		5.1	6.8	6.6	6.5				
COLOR		C'	ear		()	eav	,			lear					
ODOR		V	1010	•	_	Men	ノ	,	r	LONE					
CLARITY			clear			al	ev			clear					
SAMPLING PA	RAMETERS	# OF CON	TAINERS &	VOLUME;	CONTAINER	TYPE (A=Al	MBER; G=0	GLASS; P=P RAL; FILTE	LASTIC);	- NO				
		FALSERY	MINE IIF	L (L=LAB A	DDED, F=FI	ELD AD	DEU	ORNEUT	MAL; PILTE	HED (1ES C	r NO)				
								-							
									ļ						
		Į													
NAME OF LAB	ORATORY			· ·											
DATE SENT TO	O LAB														
	SAMPLER=S NAME														

^{*}Measured from top of well casing.



	PROJECT INFORMATION					INSTRUMENTS								
PROJECT	Occonomowoc E				Temp., pH, Horiba U-52									
PROJECT NO.	117-7413001.01				Conductivi						-			
LOCATION	Occonomowoc, WI				ORP	ity								
PERSONNEL	Ashley Kowalewski				DO		٠ .	 						
MONITOR V	WELL ID		MW-9S			MW-	·12S		MW-12D					
WATER TYPE	WELL ID	G	roundwat	er	-	roun		er	G	roundwal	er			
DATE (month/	day/year)	11	1.3.15		1	1.5			- 11	1.5-15				
	R LEVEL (ft)*/TIME	5.5		236	4.4	,		127	5.13	- ' '	035			
WELL DEPTH	(feet)*					_				5.00				
PUMP INLET D	DEPTH (feet)*													
ENDING WATE	R LEVEL (ft)*/TIME	5.5	9	250	4.73		13	207	5.1	1 11	10			
START PURGE	E TIME (Military)	· ·	235		119		-		1035					
END PURGE T	iME (Military)		250				58	•		1110				
PURGE VOLU	ME (gallons)			2.0				2.0						
SAMPLE TIME	(Military)	1255				121			1	115				
INDICATOR PA	CATOR PARAMETERS 1st 2nd 3rd				1st	21	nd	3rd	1st	2nd	3rd			
TIME (minutes	E (minutes) 100 200 360				1.00	2.	00	300	100	260	300			
TEMPERATUR	RE (° C)	17.38	17.26	17.35	4.05	ㅂ.(OC	14.00	14.25	14.91	15-02			
рH				7.00	6.0	79	6.99	7.61	1.01	700				
ELEC. COND.	Measured	1.68	1.68	1.68	.919	.9	20	.920	.971	.973	.974			
(uS/cm)	ates cTurb	0.0	0.0	0.0	31.8	36	9	34.3	2.4	2.2	2.2			
ORP (mV)	(UTU)	-35	-36	-37	-23	- 2		-21	-87	-81	-88			
DISSOLVED O	XYGEN (ppm)	.43	.43	.43	1.14	1.1	3	1.12	4.88	4.83	4.79			
DISSOLVED O	XYGEN (% Sat.)	4.6	4.6	4.7	11.4	$\Box u$.3	11.2		49.5	44.2			
COLOR		C	lear		V. lio	ynt.	GIYC			car				
ODOR		V	NONE		V. F	nik	N K	ten eg	S 1	nonu				
CLARITY	**	(ileav		-			ack		ue al				
SAMPLING PA	ARAMETERS	# OF CON	ITAINERS &	VOLUME;	CONTAINE	R TYPE	(A=/	AMBER; G=(D) OR NEUT	GLASS; P=F	PLASTIC);				
		PRESERV	VALIVE LIF	E (E=EAD A	DDEB, F=F	ILLU P	IDDEL	J) ON NEOT	NAL, FILTE	NED (TES C	1110)			
100							-							
	- 20 100-0				-				-					
				7										
	- 41													
NAME OF LA				- 4	0 - 1 - 2			~						
DATE SENT T			100											
	SAMPLER = S NAME feasured from top of well casing.													

^{*}Measured from top of well casing.

 ${\bf P:} \verb|WDNR Oconomowoc Electroplating| Field Forms \\| Fld_Water_Form_Low-Flow_.doc$



	DDO IFOT INE			RO AND	1 2111011			BAENITO				
	PROJECT INF	THE RESERVE TO SERVE	The same of the sa		INSTRUMENTS Horiba U-52							
PROJECT	Occonomowoc E	lectropiati	ng ———		Temp., pH,	Ho	104 0-32					
PROJECT NO.	117-7413001.01		_		Conductivit	ty						
LOCATION	Occonomowoc, WI				ORP				19			
PERSONNEL	Ashley Kowalewski				DO		*		12.			
MONITOR V	VELL ID		MW-12B			Ect-WM	Ď		MM-100-	<u> </u>		
WATER TYPE		G	roundwa	ter	G	iroundwa	ter	Groundwater				
DATE (month/	day/year)	11.	2.15		11.	21.5		caa 11.5-15				
STATIC WATE	R LEVEL (ft)*/TIME	4.2-	1 4	158	5.0	5 1	478	J. G. THEN				
WELL DEPTH	(feet)*					•						
PUMP INLET	EPTH (feet)*											
ENDING WATE	R LEVEL (ft)*/TIME	7.4	l lc	22	5.11	l l	402	多分	99 1	132,		
START PURGE	E TIME (Military)	7,7	1000			140			1440	1415		
END PURGE T	IME (Military)	1	023			程 14	54		1430	-		
PURGE VOLU	ME (gallons)	1.00				0.			1.5			
SAMPLE TIME		1025		10	105		1	440				
INDICATOR PA	ARAMETERS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd		
TIME (minutes	3)	100	200	360	100	200	300	100	200	300		
TEMPERATURE (° C)		16.48	1654	Ile-lol	14.56	14.52	14.52	14.15	14.17	14.19		
pН		7.77	7,78	7.19	7.01	7.01	7.02	7.09	7.09	7.08		
ELEC. COND.	Measured	.653	.652	· 650	. goy	. 90%	.408	.704	.705	.706		
(uS/cm)	asse Turb.	0.0	0.0	0.0	1.4	1.6	2.4	10.9	9.8	9.0		
ORP (mV)	(NTV)	・ハフ	-178	-179	-73	-13	-74	21	21	ನಿವ		
DISSOLVED C	XYGEN (ppm)	.23	.22	.22	.28	.20	.20	1.87	1.89	1.87		
DISSOLVED O	XYGEN (% Sat.)	2.5	2.3	2.4	2.1	2.1	2.0	18.9	19.0	18.9		
COLOR		T	VECIN			lear		CI	ear			
ODOR			Non		1	nonl			Nonu			
CLARITY			clea	71	,	CLCON			Clear			
SAMPLING PA	ARAMETERS	# OF COI	NTAINERS	& VOLUME;	CONTAINE	R TYPE (A:	AMBER; G=	GLASS; P=	PLASTIC);	*		
		PRESER	VATIVE TY	PE (L=LAB A	IDDED; F=F	IELD ADDI	ED) OR NEUT	HAL; FILIE	HED (YES	r NU)		
		1										
		 						- X	- 70 2			
						-						
		-						1				
NAME OF LA	BORATORY	1			+			1		-		
DATE SENT		+		W-70 V2	-			+				
SAMPLER=S NAME							+					



PROJECT INFORMATION					INSTRUMENTS							
PROJECT	Occonomowoc El	ectroplati	ng		Temp., pH,	Hori	ba U-52 					
PROJECT NO.	117-7413001.01				Conductivit	у						
LOCATION	Occonomowac, WI				ORP							
PERSONNEL	Ashley Kowalewski				DO		*					
MONITOR V	WELL ID		MW-15S			MW-15D		MW-15B				
WATER TYPE		G	roundwate	er	G	roundwat	er	G	roundwate	er		
DATE (month/	day/year)	11:	6.15		10 11	· 5-15	1943		<u> 1 - 6 - 18</u>			
STATIC WATE	R LEVEL (ft)*/TIME	9.43	10	08	URINE	4	025	12.10	<u> </u>	18		
WELL DEPTH	(feet)*											
PUMP INLET	DEPTH (feet)*				94							
ENDING WATE	ER LEVEL (ft)*/TIME	9.4		158	10-11	<u>) 1</u>	125	17.11		48		
START PURG	E TIME (Military)		DIO		h	PBB.	1040		920			
END PURGE T	TIME (Military)		<u>030</u>		200	<u>025</u>			948			
PURGE VOLU	ME (gallons)		٥,		2	<u>.5 a</u>		1.				
SAMPLE TIME	(Military)	1020		11	<u> 30 ° </u>		-	150				
INDICATOR PA	ARAMETERS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd		
TIME (minutes	3)	100	500	300	100	200	300	100	200	300		
TEMPERATUR	RE (° C)	13.05	13.08	1310	12.35	1236	7	13.27	13.31	12.28		
рH		6.69	6.70	6.76	2010	المارها	[Pala	6.93	6.93	6.93		
ELEC. COND.		LIZS	1.50	1.49	. 470	.919	920	552	-852	.552		
(uS/cm)	Turb.	0.0	0.0	0.0	0.9	1.1	1.6	0.0	0.0	6.0		
ORP (mV)	(Mru)	14	17	30	45	45.	145	-126	-127	-128		
	OXYGEN (ppm)	5.10	209	2.14	2.64	2.59	2.53	.33	•33	,32		
	OXYGEN (% Sat.)	20.7	20.7	211	1322	1521	124.7	3.2	3-1	3.1		
COLOR		Cla	ely	-	C	eour			lew			
ODOR			on			nune		1	hore			
CLARITY		1	Clear			Lee	/		Cleav			
SAMPLING PA	ARAMETERS	# OF CON	NTAINERS & VATIVE TYP	i VOLUME; E (L=LAB A	CONTAINEF .DDED; F <u>=Fl</u>	R TYPE (A= ELD ADDE	:AMBER; G=(:D) OR NEUT	GLASS; P≖F 'RAL; FILTE	'LASTIC); RED (YES c	r NO)		
								<u> </u>		·		
12												
								-				
			<u>, </u>			19						
	NAME OF LABORATORY					H						
<u> </u>	DATE SENT TO LAB			-	2005	<u>8</u>	1955					
SAMPLER-S NAME								3				

*Measured from top of well casing.



	PROJECT INFORMATION					INSTRUMENTS								
PROJECT	Occonomowoc E	lectroplati	ng		Temp., pH,		Horit	pa U-52						
PROJECT NO.	117-7413001.01				Conductivit									
LOCATION	Occonomawoc, Wi				ORP	-								
PERSONNEL	Ashley Kowalewski				DO		,	·		-				
MONITOR V	VELL ID		MW-16S			MW-	1015	-	MW-101B					
WATER TYPE		G	roundwate	er	G	roun	dwate	er	G	roundwat	er			
DATE (month/d	day/year)	11-	45.15	5	11.	4.	15		- kl	-4.15				
STATIC WATE	R LEVEL (ft)*/TIME	3.0	8 8	135	5.7	59	IL	24	S.le	6 15	42			
WELL DEPTH	(feet)*													
PUMP INLET D	DEPTH (feet)*								-					
ENDING WATE	R LEVEL (ft)*/TIME	3.70	9 د	64 -	5.64		1	624	5.60	0 1	6109			
START PURGE	E TIME (Military)		40			162		1964		34S				
END PURGE T	IME (Military)	9	03		1	16 2		1.97	1	60				
PURGE VOLUI	ME (gallons)	1	4	1.5				15						
SAMPLE TIME	(Military)		105			64			11					
INDICATOR PA	ARAMETERS	1st	2nd	3rd	, 1st	21	nd	3rd	1st	2nd	3rd			
TIME (minutes)	106	2.00	30D	100	20	200 300		100	260	360			
TEMPERATUR	IE (° C)	13.52	13.53	1353	16.48	16.	4.48 1049		15.38	15:41	15.41			
pН		647	647	6.48	7.18		18 7.18		7.4x	7.49	7.49			
ELEC. COND.	Measured	247	2.49	2.51	2.36	2.1	34	2.33	.863	860	.862			
(uS/cm)	siese Turb.	12.41	13.3	11.9	0.0	ტ.	O	0.0	0.0	0.0	0.0			
ORP (mV)	(אדט)	-18	-19	-80	104	w	y	105	29	29	30			
DISSOLVED O	XYGEN (ppm)	.38	J. 36	-36	له.لوله	(0.1	62	6.53	.19	.19	.19			
DISSOLVED O	XYGEN (% Sat.)	3.8	3.6	3.6	70.8). 4	_	D-0	2.0	2.0			
COLOR		٥	lear			C(P)	ur		a	Rav				
ODOR		noth	neg	9	1	ngv				0014				
CLARITY			de ch				ear			zlea	<u> </u>			
SAMPLING PA	RAMETERS	# OF CON	TAINERS &	VOLUME;	CONTAINER	TYPE	(A=A	MBER; G=0	LASS; P=P	LASTIC);				
		PRESERV	MIVETTE	E (L=LAB A	 	ELDA	IDDEL) OR NEUT	HAL, FILTE	<u>HED (169 0</u>	r NO)			
	<u></u>													
NAME OF LAE	BORATORY					<u> </u>		····-		·····				
DATE SENT T														
SAMPLER-S	SAMPLER-S NAME				1						· · · · · · · · · · · · · · · · · · ·			
Measured from to	op of well casing.							1.	1					

^{*}Measured from top of well casing.



	PROJECT INFORMATION					INSTRUMENTS								
PROJECT	Occonomowoc E	lectroplati	ng		Temp., pH,		Horil	a U-52						
PROJECT NO.	117-7413001.01				Conductivit	·	-				-			
LOCATION	Occonomowoc, Wi				ORP									
PERSONNEL	Ashley Kowalewski				DO		٠	•						
MONITOR V	WELL ID		MW-102S	•••		MW-	102D			MW-103S				
WATER TYPE		G	roundwat	er	G	roun	dwate	er	Groundwater					
DATE (month/	day/year)	1	11.	6	<u> </u>	-	11.	4.5						
STATIC WATE	R LEVEL (ft)*/TIME	8.5	6 1	243	8.7		l ii	57	6.6		533			
WELL DEPTH	(feet)*													
PUMP INLET	DEPTH (feet)*						20							
ENDING WATE	R LEVEL (ft)*/TIME	8.6	5 1	258	1228				4.59	5 10	<u>58</u>			
START PURG	E TIME (Military)		245		1	20	20			OVO				
END PURGE T	iME (Military)	<u> </u>	1300)	١	2	30			058				
PURGE VOLU	ME (gallons)	1.0				1.5				1.0				
SAMPLE TIME	(Military)		1300		1230			110	۵۵					
INDICATOR PA	ARAMETERS	1st	2nd	3rd	1st	2	nd	3rd	1st	2nd	3rd			
TIME (minutes	i)	100	200	300	100	λc	20	300	100	200	300			
TEMPERATUR	RE (° C)	13.42	13.42	13.44	11.65	11.	105	701.11	18.10 18.20 18					
рН		6.43	6.42	6.42	6.89		88	10.88	1.04	7.04	7.04			
ELEC. COND.	Measured	2.63	2.64	2.64	888		४४	.881	.896	.896	.896			
(uS/cm)	- ter e Tub.	0.0	6.0	0.70	0.0		٠.0	12000	0.0	0.0	0.0			
ORP (mV)	(NTU)	79	81	83	-10		10	-70	134	134	134			
DISSOLVED	XYGEN (ppm)	2,23	2.22	3.22	.31	. 7	31	.30	.69	2 ما،	.65			
DISSOLVED C	XYGEN (% Sat.)	33.3	22.9	22.2	3.0	2	6.6	2.9	1.5	7.1	7.1			
COLOR		C	lear		(100	W		CI	ear				
ODOR			none				NK			none				
CLARITY			c120	11		CI	lou			clear				
SAMPLING PA	ARAMETERS			VOLUME;		TYP	E (A=#	MBER; G=0		LASTIC);	r NO)			
	·			_ \				,		(
840 tota	90 - 65 - 65 - 65 - 65 - 65 - 65 - 65 - 6	2 3	-						c					
							-	14 July 1						
36.5														
			5					_						
		1												
		1				S. 15								
c - 3-3:					V									
NAME OF LA	BORATORY					160								
DATE SENT T	O LAB		<u> </u>								240			
SAMPLER-S	SAMPLER = S NAME							1.00			-			

*Measured from top of well casing.



	PROJECT INF			IIO AIND			INSTRU	MENTS		
PROJECT	Occonomowoc E	lectroplati	ng		Temp., pH,	Ho	riba U-52			
PROJECT NO.	117-7413001.01				Conductivit	_				
LOCATION	Occonomowoc, WI	_			ORP					
PERSONNEL	Ashley Kowalewski				DO		+			
MONITOR V	WELL ID		MW-103D			MW-1059	5	MW-105D		
WATER TYPE			roundwat	er	G	roundwa	iter	Groundwater		
DATE (month/	day/year)	- 11	1.4.15	•						15
STATIC WATE	R LEVEL (ft)*/TIME	95	2 6	65	3.80	3.89 1415 3.7			10	524
WELL DEPTH	(feet)*						-			
PUMP INLET	DEPTH (feet)*									
ENDING WATE	R LEVEL (ft)*/TIME	1002	رما ي	.55	4.0	5 1	506	3.7	3 1	557
START PURGE	E TIME (Military)		152			28			576	1.0
END PURGE T	IME (Military)		008			502			50	
PURGE VOLU	ME (gallons)	1	.0			.00			5	
SAMPLE TIME	(Military)	i	010/1	026	150	SJIS	10		550	
INDICATOR PA	ARAMETERS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes	3)	100	200	300	100	200	300	100	200	300
TEMPERATUR	NE (° C)	13.78	1379	13.82	20.10	20.19			15.45	15.53
рH		208	7.10	7.11	7.24	7.24	1.24	1.40	7.38	1.46
ELEC. COND.	Measured	. 922	, 923	.923	1.91	1.91	1.91	1.12	1.13	1.12
(uS/cm)	CTUB.	0.0	0,0	0.0	9.3	9.5	9.3	6.1	5.9	5.9
ORP (mV)	(NTU)	87	૪૨	78	-47	-47	-48	-65	-le5	-67
DISSOLVED C	XYGEN (ppm)	.48	.47	.46	.41	.37	.37	.32	.30	.29
DISSOLVED C	XYGEN (% Sat.)	4.8	4,7	4.6	4.6	4.3	4.3	3.3	3.2	3.0
COLOR	<u> </u>	С	lear			ear		Clear		
ODOR		V	nne	· •		1010			lune	
CLARITY			lear	-		re CV	nunks		m	
SAMPLING PA	ARAMETERS	# OF CON	TAINERS 8	VOLUME;	CONTAINER	TYPE (A:	AMBER; G=(D) OR NEUT	GLASS; P=P	LASTIC);	or NO)
	1	<u> </u>	10 O						TED (TES C	110)
			70 1		LULP	<u> </u>	1510			
							_			
NAME OF LA	ORATORY	<u> </u> 			1					
DATE SENT T		 				_	.			
SAMPLER-S						· · · · · · · · · · · · · · · · · · ·				
	op of well casing.							<u> </u>		

^{*}Measured from top of well casing.



PROJECT PROJECT NO. LOCATION PERSONNEL	PROJECT INF Occonomowoc E 117-7413001.01		Table 1			_	Hasil	INSTRU				
PROJECT NO.					Town ou		HOUR	Horiba U-52				
LOCATION					Temp., pH, Conductivi	_	<u> </u>			5/75	700	
	Occonomowoc, WI				ORP	ity	 					
	Ashley Kowalewski				DO		 	,				
MONITOR V	VELL ID		MW-105B			TW.	2021	<u>, </u>		OW-6		
WATER TYPE	VELL ID	G	roundwat	 er		roun		er	Groundwater			
DATE (month/c	lav/vear)	-	11.3.1			- '5	-		11-4-15			
	R LEVEL (ft)*/TIME	3.81	· · ·	62	5.6			363	7.51 113			
WELL DEPTH ((feet)*	7.0	7 14		3.0			101	2. 31		128	
PUMP INLET D	EPTH (feet)*										re	
ENDING WATE	R LEVEL (ft)*/TIME	5.2	1 11	022	5.8	34	11	150	7.7	2 1	203	
START PURGE	TIME (Military)		605				20		. 1	130		
END PURGE T	IME (Military)	1	1620	•			120)	1	205		
PURGE VOLUM	ME (gallons)	C				1.0)		1	.5	-	
SAMPLE TIME	(Military)	1(025			VU	120	5		205		
INDICATOR PA	ARAMETERS	1st	2nd	3rd	1st	T	nd	3rd	1st 2nd			
TIME (minutes)	100	200	300	100	2:6	วบ	3.00	100	200	400	
TEMPERATUR	E (° C)	13.10	12.93	13,02	14.51	14.	52	1454	18.81	18:81	1283	
pН		173	7.13	7.71	6.88	le.	87	6.80	9.47	9.49	9.51	
ELEC. COND.	Measured	0.789	.192	.791	.981	.9	81	.980	486		.485	
(uS/cm)	esserus.	0.0	0.0	00	12.3	13	.4	12.2	0.0	0.0	0.0.	
ORP (mV)	(MV)	-116	-118	-120	-9		0	-10	-159	-122	-150	
DISSOLVED O	XYGEN (ppm)	.35	.38	.40	.39	13	8	.37	.25	.24	.24	
DISSOLVED O	XYGEN (% Sat.)	3.5	37	3.9	3.9	3.	29	3.7	2.7	2.1	2.7	
COLOR		CI.	eur		C	leav	_		cl	ear		
ODOR		V	me			NCV		1		nohe		
CLARITY			Clear			CL	len			clea	N	
SAMPLING PA	RAMETERS	# OF CON	ITAINERS &	VOLUME;	CONTAINE	R TYPI	E (A=A	MBER; G=0) OR NEUT	LASS; P=P	LASTIC):		
- ··- ·		FRESENT	AIIVETII	L (L-LAD A		ILLU P	IDUEL) ON NEUT	MAL, FILTE	HED (1ES O	i NO)	
	7039-7			1.0.4		10.		Alana .				
						<u> </u>						
			- 5511						1000			
				100	0_0							
3. 98	22 0 <u>3 3</u> .											
NAME OF LAB	ORATORY				1407.000			<u> </u>				
DATE SENT TO	DLAB	A.								-		
SAMPLER =S N Measured from to		1			5 - =					12 12 12	EII-	

*Measured from top of well casing.



PROJECT INFORMATION Occonomowoc Electroplating								INSTRU	MENTS				
PROJECT	Occonomowoc E	lectroplati	ng		Temp., pH,		Horib	a U-52					
PROJECT NO.	117-7413001.01				Conductivity	y							
LOCATION	Occonomowoc, WI				ORP					<u> </u>			
PERSONNEL	Ashley Kowalewski				DO		*	<u>'</u>					
MONITOR V	VELL ID		MW-14DR		ļ								
WATER TYPE		315	iroundwate	er	G	roun	dwate	er	G	roundwate	er		
DATE (month/d	day/year)	[1	1.4.15	CC.			•						
STATIC WATE	R LEVEL (ft)*/TIME	5.6	1 10	127	A		100	1			25		
WELL DEPTH	(feet)*						55						
PUMP INLET	EPTH (feet)*			<u>į</u>					100				
ENDING WATE	R LEVEL (ft)*/TIME	5.6	3 14	150			153		3		• _		
START PURGE	E TIME (Military)	1	430						•	-			
END PURGE T	IME (Military)	1	450		73	ls.				¥11			
PURGE VOLU	ME (gallons)		.6		11 .								
SAMPLE TIME	(Military)	1	455						12				
INDICATOR PA	ARAMETERS	1st 2nd 3rd			1st	2	nd	3rd	1st	2nd	3rd		
TIME (minutes	3)	100 200 300											
TEMPERATUR	iE (° C)	_						*.*	00				
рН		1.35	7.35	7.34			98						
ELEC. COND.	Measured	.887	188	.881	• •								
(uS/cm)	STANGE Tark.	0.0	6.0	6.0	<u>'</u>								
ORP (mV)	(NTU)	-32	-23	-24									
DISSOLVED C	XYGEN (ppm)	.23	:22	.22]		V)			
DISSOLVED C	XYGEN (% Sat.)	2.3	2.2	2.2									
COLOR		C	lear										
ODOR		V	MON										
CLARITY			Clear						<u></u>				
SAMPLING PA	ARAMETERS	# OF CON	NTAINERS &	VOLUME;	CONTAINER ADDED; F=FI	TYP	E (A=A	MBER; G=(GLASS; P=F RAL: FILTE	LASTIC); RED (YES o	r NO)		
											<u> </u>		
										/			
NAME OF LAI	BORATORY	† 						9			<u> </u>		
DATE SENT T		1											
SAMPLER=S	NAME	1											
414					,								



^{*}Measured from top of well casing.

TETRA TECH PRIVATE WELL FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

	PROJECT	INFORMATION				INSTRUME	NTS	
PROJECT	Oconomowoc E	lectroplating		Temp, & pH		Hanna		
PROJECT NO.	117-7413001			Conductivity		Hanna		
LOCATION	Oconomowoc W	//		ORP		Hanna		
PERSONNEL	Ashley Kowalew	/ski		DO		Hanna		
SAMPLE PO	DINT ID	PW-08	PW-	09		PW-10	PW-64	
WATER TYPE		Groundwater	Ground	water	Groundwater		Groundwater	
DATE (month/da	ıy/year)	11.5.15	11-3-1	5	- 1	11-2-12	11-3-15	
CLOCK TIME (M	ilitary)	MARS 1355	950	10		1435	IDIO	
PROPERTY ADD	DRESS	2603 Elm Street, Ashippun, WI 53003	2606 Elm Stre Ashippun, WI		2607 Elm Street, Ashippun, WI 53003		JUDS OAK ST Ashippun, WI 53003	-
DEPTH TO WAT	ER (ft)*							
MEASURED WE	LL DEPTH (ft)*							
SAMPLING DEV	ICE	Spigot	spigot	-	SDI	got.	outdoor well	
PURGE RATE (g	jpm)	8 gal/min	0.59Pm	n	١, ٢	1 apm	# 17 sec For So	al
PURGE VOLUM	E (gallons)	~50 Gal	15.0	•	u	10 aal	40.0	ľ
FIELD TEMPERA	ATURE (°C)	13.6	12.	8	14.5		\$13.9	
pН		7.46	7.51	ı	7.47		7.33	
ELEC. COND. (uS/cm) at 25° C	1202	126	2	1112-		1157]
COLOR		clear	clea	?	Clear		clear	
ODOR		none	mild			now	v. Mi'ld	
CLARITY		clear	clea	iv		Clear	Cleon	
SAMPLING PAR	IAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P =	3 via	113		Š	3 vials	
	(*)							
							,	$oxed{oxed}$
NAME OF LABO	DRATORY							
DATE SENT TO	LAB	АМК	AMK		AM	K	AMK	
SAMPLER S N	AME							-
*Measured from t	op of well casing.	·	1					J



TETRA TECH PRIVATE WELL FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

	PROJECT	INFORMATION				INSTRUMEN	TS
PROJECT	Oconomowoc El	ectroplating		Temp. & pH		Hanna	
PROJECT NO.	117-7413001			Conductivit	у	Hanna	
LOCATION	Oconomowoc W	1		ORP		Hanna	
PERSONNEL	Ashley Kowalew			DO		Hanna	
SAMPLE PO	DINT ID	PW-03	PW-	11		PW-05	PW-07
WATER TYPE		Groundwater	Ground	water	(Groundwater	Groundwater
DATE (month/da	y/year)	11.4.15	11.10	15			11.5.15
CLOCK TIME (MI	litary)	1710	1215			<u></u> _	#152S
PROPERTY ADD	RESS	2601 Öak Sreet., Ashippun, WI 53003	2613 Elm Stre Ashippun, WI			l Oak Street, ippun, WI 53003	2602 Elm Street, Ashippun, WI 53003
DEPTH TO WATI	ER (ft)*						~
SAMPLING DEV	CE	Hanna Meter					Hanna
SAMPLING DEV	ICE DEPTH (ft)*		ــــــــــــــــــــــــــــــــــــــ				
PURGE RATE (g	pm)	Sapm	591	γ γ			· 59pm
PURGE VOLUM	E (gallons)	50 gallons	40	gal			58
FIELD TEMPERA	ATURE (°C)	13.2	13.1	<u> </u>			140
рН		7.57	7.4	1			7.12
ELEC. COND. (L	ıS/cm) at 25° C	1094	103	3			1209
COLOR		clear	clea	W.			clear
ODOR		none	notten	099			none
CLARITY		clear	Cle				clear
SAMPLING PAR	AMETERS	# OF CONTAINERS & VOLU PRESERVATIVE TYPE (L =	JME; CONTAINE LAB ADDED; F	R TYPE (A = = FIELD ADD	AMBE ED) O	R GLASS; G = GLASS; R NEUTRAL; FILTERED	P = PLASTIC); (YES or NO)
		I,					
							Vi
NAME OF LABO	PRATORY						
DATE SENT TO	LAB		<u> </u>	***	_	4446	61012
*Measured from t	<u> </u>	AMK	A	лк ————		AMK	AMK



TETRA TECH FIELD WATER LEVEL DATA SHEET

Project Number: <u>117-7413001.01</u>	Project Name: Oconomowoc Electroplating
Location: Oconomowoc, WI	Instrument: Heron
Personnel: Ashley Kowalewski	Date:

Monitor Well/ Sample Port Identification	Date	Time	Depth to Groundwater (feet below top of casing)	Comments
MW-1S	5-9-16	11:15	5.57	
MW-1D		11:14	5.07	
MW-2D		12:30	5.03	
MW-3D		12:40	7.21	
MW-4S		13:11	6.71	
MW-5D		11:39	3.72	
MW-9S		11:36	4.77	
MW-12S		12:27	4.00	
MW12D		12:25	2.44	
MW-12B		12:29	3.37	
MW-13S		12:35	5.16	
MW-13D		12:37	4.20	
MW-15S		13:19	8.11	
MW-15D		13:17	9.40	
MW-15B	+	13:22	12.97	
MW-16S	5-13-16	13:33	2.81	
MW-101S	5-9-16	12:57	3.74	
MW-101B		12:55	4.60	
MW-102S		13:35	7.14	
MW-102D		13:32	7.56	
MW-103S		11:50	5.61	
MW-103D		11:52	5.65	
MW-105S		11:43	3.50	
MW-105D		11:45	2.95	
MW-105B		11:47	2.91	
TW-202I		12:33	4.82	
OW-6		11:55	5.32	
MW-14DR	 	13:01	4.18	

Monitor Well/ Sample Port Identification	Date	Time	Depth to Groundwater (feet below top of casing)	Comments
MW-4D	5-9-16	13:13	7.37	
MW-104S		11:20	4.27	
MW-104D		11:19	4.46	
MW-106S		13:42	4.19	
MW-106D	+	13:45	3.12	

	PROJECT INFORMATION							INSTR	UMENTS			
PROJECT	Oconomowoc	Electropla	ıting		Temp. &	рН	Flo	w Cell				
PROJECT NO.	117-7413001				Conduct	ivity	Flo	w Cell				
LOCATION	Oconomowoc	WI			ORP		Flo	w Cell				
PERSONNEL	Ashley Kowa	lewski			DO		Flo	w Cell				
MONITOR V	VELL ID		MW-1S			MW-	1D		MW-2D			
WATER TYPE			roundwat	er		round	wate	er	Groundwater			
DATE (month/da	y/year)	5- 10 -16	5		5- 10 -1	6			5- 18 -16	6		
STATIC WATER	LEVEL (feet)*	5.07			5.57	5.57						
WELL DEPTH (fe	eet)*	17.59			50.72				43.48			
PUMP INLET DE	PTH (feet)*											
START PURGE T	TIME (Military)	10:45			10:10				12:50			
END PURGE TIM	IE (Military)	11:15			10:40				13:05			
PURGE VOLUME	(gallons)	4.0			4.0				2.0			
SAMPLE TIME (N	Military)	15:55			15:40				13:10	13:10		
STABILIZED IND PARAMETERS R		1st	2nd	3rd	1st	2nd	ı	3rd	1st		3rd	
TIME (minutes si	ince initial reading)							3:00	1:00	2:00	3:00	
TEMPERATURE		9.96	9.95	11.46	11.40)	11.39	12.12	12.10	12.13		
at 25° C (us/cm)	ONDUCTANCE	1.11	1.11	1.11	0.613	0.613	3	0.613	1.02	1.02	1.02	
	SSOLVED OXYGEN (ppm)		0.0	0.0	0.28	0.27		0.27	0.0	0.0	0.0	
pH	- 47	6.96	6.95	6.95	7.42	7.42		7.42	7.03	7.03	7.03	
DISSOLVED OXY	GEN (% Sat.)	0.0	0.0	0.0	2.6	2.6		2.6	0.0	0.0	0.0	
Turbidity		10.0	9.5	9.0	1.6	1.5		1.6	0.0	0.0	0.0	
ORP (mV)		38	38	38	-74	-74		-74	30	27	25	
COLOR		Clear	•	•	Clear	Clear			•	•		
ODOR		None			None				None			
CLARITY		Clear			Clear				Clear			
SAMPLING PA	RAMETERS			LUME; CONTA =LAB ADDED						NO)		
ENDING WATE	R LEVEL (feet*)	5.31			8.66				8.93			
NAME OF LABO	RATORY	CT Labo	oratories		CT Lab	oratorio	es		CT Labo	oratories		
DATE SENT TO I	LAB	A 5.0 V			A KAL							
SAMPLER'S NA		AMK			AMK				AMK			
*Measured from to	p of well casing.											

^{*}Measured from top of well casing.

	PROJECT I	NFORMA	TION				INST	RUMENTS					
PROJECT	Oconomowoc	Electropla	ating		Temp. 8	pH	Flow Cell						
PROJECT NO.	117-7413001				Conduc	tivity	Flow Cell						
LOCATION	Oconomowoc	WI			ORP		Flow Cell						
PERSONNEL	Ashley Kowa	lewski			DO		Flow Cell						
MONITOR	WELL ID		MW-3D			MW-	4S		MW-5D	1			
WATER TYPE		G	roundwa	ter	G	Fround	water	G	Froundwa	ter			
DATE (month/da	ay/year)	5- 18 -10	6		5- 10 -1	6		5- 11 -1	6				
STATIC WATER	LEVEL (feet)*	7.91			6.71			3.72					
WELL DEPTH (f	eet)*	50.56			18.09			24.45					
PUMP INLET DE	EPTH (feet)*												
START PURGE	TIME (Military)	13:50			15:00								
END PURGE TIM	ME (Military)	14:25			15:15			14:20					
PURGE VOLUM	E (gallons)	3.5			2.0			2.5					
SAMPLE TIME (Military)	14:30			15:20			14:25					
STABILIZED INI PARAMETERS I		1st	2nd	3rd	1st	2nc	l 3rd	1st	2nd	3rd			
TIME (minutes s	since initial reading)	1:00	2:00	3:00	1:00	2:00	3:00	1:00	2:00	3:00			
TEMPERATURE	: (° C)	11.92	11.92	11.98	9.46	9.43	9.41	13.72	13.71	13.76			
ELECTRICAL C	ONDUCTANCE	0.969	0.970	0.970	1.57	1.57	1.58	1.10	1.10	1.09			
at 25° C (us/cm)													
DISSOLVED OX	YGEN (ppm)	0.51	047	0.44	0.0	0.0	0.0	0.01	0.0	0.01			
рН		7.09	7.08	7.08	6.91	6.90	6.90	7.13	7.13	7.13			
DISSOLVED OX	YGEN (% Sat.)	4.9	4.5	4.2	0.0	0.0	0.0	0.1	0.0	0.1			
Turbidity		0.0	0.0	0.0	36.6	30.9	32.6	27.4	26.9	25.1			
ORP (mV)		61	58	54	117	106	97	-38	-39	-40			
COLOR		Clear			Clear			Clear	Clear				
ODOR		None			None			None	None				
CLARITY		Clear			Clear			Clear	Clear				
SAMPLING PA	ARAMETERS	# OF CONT	AINERS & VO	DLUME; CONT L=LAB ADDED	AINER TYPE); F=FIELD A	(A=AMBI DDED) OF	ER; G=GLASS; R NEUTRAL; FIL	P=PLASTIC); .TERED (YES o	PLASTIC);				
ENDING WAT	ER LEVEL (feet*)	10.81			6.82	; F=FIELD ADDED) OR NEUTRAL; FILTE			3.84				
NAME OF LABO	RATORY	CT Lab	oratories		CT Lab	oratori	es	CT Lab	oratories				
DATE SENT TO	LAB												
SAMPLER'S NA	AMPLER'S NAME AMK				AMK			AMK					

^{*}Measured from top of well casing.

	PROJECT INFORMATION					INSTRUMENTS						
PROJECT	Oconomowoc	Electropl	ating		Temp. &	pН	Flow Cell					
PROJECT	117-7413001				Conduct	ivity	Flow Cell					
LOCATION	Oconomowoc	WI			ORP		Flow Cell					
PERSONNEL	Ashley Kowa	lewski			DO		Flow Cell					
MONITOR	WELL ID		MW-9S			MW-1	2S	MW-12D				
WATER TYPE		G	roundwat	er	G	round	water	Groundwater				
DATE (month/da	ay/year)	5- 11 -10	6		5- 11 -1	6		5- 11 -1	6			
STATIC WATER	LEVEL (feet)*	4.74			4.0			2.44				
WELL DEPTH (fe	DEPTH (feet)* 22.23			14.89			25.11					
PUMP INLET DE	PUMP INLET DEPTH (feet)*											
START PURGE	START PURGE TIME (Military) 12:55				15:40			15:00				
END PURGE TIM	ID PURGE TIME (Military) 13:15				15:55			15:15				
PURGE VOLUM	E (gallons)	3.0			2.0			2.5				
SAMPLE TIME (Military)	13:20			16:00			15:20				
STABILIZED INC PARAMETERS F		1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd		
TIME (minutes s	ince initial	1:00	2:00	3:00	1:00	2:00	3:00	1:00	2:00	3:00		
TEMPERATURE	(° C)	15.16 15.16 15.13				11.98	12.03	16.43	16.48	16.52		
ELECTRICAL Co at 25° C (us/cm)	ELECTRICAL CONDUCTANCE at 25° C (us/cm)			1.49	1.24	1.23	1.23	1.19	1.19	1.19		
DISSOLVED OX	YGEN (ppm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
рН		7.10	7.10	7.10	7.15	7.14	7.14	7.26	7.26	7.26		
DISSOLVED OX	YGEN (% Sat.)	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Turbidity		16.2	15.1	13.6	12.6	12.6	12.0	0.8	1.3	0.3		
ORP (mV)		-35	-35	-35	29	29	30	49	47	49		
COLOR		Clear			Clear	Clear Clear				ar		
ODOR		None			None							
CLARITY		Clear			Clear			Clear				
SAMPLING PA	ARAMETERS	# OF CONT	AINERS & VO	DLUME; CON L=LAB ADDE	TAINER TYPI D; F=FIELD A	E (A=AME ADDED) C	BER; G=GLASS; PR NEUTRAL; FIL	P=PLASTIC); .TERED (YES	or NO)			
ENDING WATE	ER LEVEL (feet*)	4.74			4.31			3.24				
NAME OF LABO	RATORY	CT Labo	oratories		CT Laboratories CT Laboratories							
DATE SENT TO	LAB											
*Measured from to		AMK			AMK			AMK				

^{*}Measured from top of well casing.

	PROJECT I	NFORMA	TION					INSTR	UMENTS				
PROJECT	Oconomowoc	Electropla	ating		Temp. &	pH	Flow	Cell					
PROJECT NO.	117-7413001				Conduct	tivity	Flow	Cell					
LOCATION	Oconomowoc	WI			ORP		Flow	Cell					
PERSONNEL	Ashley Kowa	lewski			DO		Flow	Cell					
MONITOR V	WELL ID		MW-12E	3		MW-	13S		MW-13D				
WATER TYPE		G	roundwa	ter	G	round	water		G	roundwa	ter		
DATE (month/da	ny/year)	5- 11 -1	6		5- 13 -1	6			5- 13 -1	6			
STATIC WATER	LEVEL (feet)*	3.37			4.24				4.20				
WELL DEPTH (fe	eet)*	44.55			15.31				31.94				
PUMP INLET DE	PTH (feet)*												
START PURGE	TIME (Military)	16:10			14:15				14:55				
END PURGE TIM	14:35			14:30				15:10					
PURGE VOLUMI	E (gallons)	2.0			2.0				1.5				
SAMPLE TIME (I	Military)	16:30			14:35				15:15				
STABILIZED IND PARAMETERS F		1st	2nd	3rd	1st	2nd	d	3rd	1st	2nd	3rd		
TIME (minutes s	ince initial reading)	1:00	2:00	3:00	1:00	2:00	3	3:00	1:00	2:00	3:00		
TEMPERATURE	(° C)	12.41	12.43	12.46	12.30	12.1	8 1	12.29	11.35	11.38	11.41		
ELECTRICAL CO at 25° C (us/cm)		0.911	0.910	0.910	0.829	0.83	2 0).832	1.14	1.14	1.14		
DISSOLVED OX	YGEN (ppm)	0.94	0.93	0.93	4.41	4.41	3	3.78	0.0	0.0	0.0		
pН		8.40	8.39	8.39	7.35	7.34	7	7.35	7.21	7.20	7.20		
DISSOLVED OX	YGEN (% Sat.)	9.1	9.0	9.1	42.7	42.5	3	36.6	0.0	0.0	0.0		
Turbidity		0.0	0.0	0.0	30.9	32.7	3	30.2	126	116	116		
ORP (mV)		160	162	163	145	137	1	130	-57	-57	-56		
COLOR		Clear			Clear				Clear				
ODOR		None			None				None				
CLARITY		Clear			Clear				Clear				
SAMPLING PA	RAMETERS	# OF CONT	AINERS & VO	DLUME; CONT L=LAB ADDED	AINER TYPE ; F=FIELD AI	(A=AMBE DDED) OF	R; G=GI R NEUTR	LASS; P=F AL; FILTE	PLASTIC); RED (YES or	NO)			
ENDING WATE	ER LEVEL (feet*)	10.2			5.13				4.23				
NAME OF LABORATORY CT Laboratories			CT Lab	oratori	es		CT Lab	oratories					
DATE SENT TO LAB													
SAMPLER'S NA	AME	AMK			AMK				AMK				

^{*}Measured from top of well casing.

PROJECT INFORMATION						INSTRUMENTS							
			Temp. &	рН	Flo	ow Cell							
PROJECT NO.	ROJECT NO. 117-7413001				Conduct	ivity	Flo	ow Cell					
LOCATION	Oconomowoc	WI			ORP		Flo	w Cell					
PERSONNEL	Ashley Kowa	ewski			DO	DO Flow Cell							
MONITOR V	VELL ID	MW-15S				MW-1	5D			MW-15B			
WATER TYPE		Groundwater			G	round	wat	er	G	roundwat	er		
DATE (month/da	y/year)	5- 13 -16	6		5- 13 -10	6			5- 13 -10	6			
STATIC WATER	LEVEL (feet)*	8.11			9.02				13.59				
WELL DEPTH (fe	eet)*	16.17			39.19				57.06				
PUMP INLET DEPTH (feet)*													
START PURGE TIME (Military)		11:40			12:10				10:50				
END PURGE TIM	IE (Military)	11:55			12:30				11:20				
PURGE VOLUME	(gallons)	1.5			1.5				1.5				
SAMPLE TIME (N	Military)	12:00			12:25				11:25	11:25			
STABILIZED IND PARAMETERS R		1st	2nd	3rd	1st	2nd	ı	3rd	1st	2nd	3rd		
TIME (minutes si	ince initial reading)	1:00	2:00	3:00	1:00	2:00		3:00	1:00	2:00	3:00		
TEMPERATURE	(° C)	15.76	15.77	15.77	15.86	15.89	9	15.91	13.36	13.50	13.52		
at 25° C (us/cm)	ONDUCTANCE	0.842	0.832	0.826	1.14	1.14		1.14	0.711	0.710	0.709		
DISSOLVED OXY	GEN (ppm)	5.02	4.99	4.97	0.0	0.0		0.0	0.0	0.0	0.0		
рH		7.44	7.44	7.45	7.19	7.19		7.19	7.34	7.36	7.35		
DISSOLVED OX	GEN (% Sat.)	52.3	52.1	51.9	0.0	0.0		0.0	0.0	0.0	0.0		
Turbidity		0.0	0.0	0.0	0.4	0.3		0.3	0.7	1.3	1.3		
ORP (mV)		221	224	228	159	158		158	-128	-128	-129		
COLOR		Clear			Clear				Clear				
ODOR		None			None				None				
CLARITY		Clear			Clear				Clear				
SAMPLING PA	RAMETERS			LUME; CONTA =LAB ADDED						NO)			
ENDING WATE	R LEVEL (feet*)	8.11			9.02				20.85				
NAME OF LABO	RATORY	CT Labo	ratories		CT Lab	CT Laboratories			CT Laboratories				
DATE SENT TO I	LAB												
SAMPLER'S NAM		AMK			AMK				AMK				
*Measured from to	p of well casing.				-								

^{*}Measured from top of well casing.

PROJECT Oconomowoc Electroplating Temp. & pH Flow Cell	3			
DOCONOMONOS WI DOCONOMONOS WI DOCONOMONOS WI DOCONOMONOS WELL ID DOCONOMONOS DOCONOMONOS	3			
DO Flow Cell	3			
MONITOR WELL ID MW-16S MW-101S MW-101 WATER TYPE Groundwater Groundwater Groundwater DATE (month/day/year) 5- 13 -16 5- 10 -16 5- 10 -16 STATIC WATER LEVEL (feet)* 2.81 3.74 4.60 WELL DEPTH (feet)* 14.42 12.41 48.75 PUMP INLET DEPTH (feet)* 5- 10 -16 5- 10 -16 5- 10 -16 START PURGE TIME (Military) 13:35 12:41 48.75 PURGE TIME (Military) 13:35 12:00 12:50 END PURGE TIME (Military) 13:45 12:20 13:05 PURGE VOLUME (gallons) 1.0 2.0 2.5 SAMPLE TIME (Military) 13:50 12:30 13:10 STABILIZED INDICATOR PARAMETERS READINGS 1st 2nd 3rd 1st 2nd TIME (minutes since initial reading) 1:00 2:00 3:00 1:00 2:00	3			
WATER TYPE Groundwater Groundwater Groundwater DATE (month/day/year) 5- 13 - 16 5- 10 - 16 5- 10 - 16 STATIC WATER LEVEL (feet)* 2.81 3.74 4.60 WELL DEPTH (feet)* 14.42 12.41 48.75 PUMP INLET DEPTH (feet)* 5- 10 - 16 5- 10 - 16 START PURGE TIME (Military) 13:35 12:41 48.75 END PURGE TIME (Military) 13:45 12:20 13:05 PURGE VOLUME (gallons) 1.0 2.0 2.5 SAMPLE TIME (Military) 13:50 12:30 13:10 STABILIZED INDICATOR PARAMETERS READINGS 1st 2nd 3rd 1st 2nd TIME (minutes since initial reading) 1:00 2:00 3:00 1:00 2:00	3			
DATE (month/day/year) 5- 13 - 16 5- 10 - 16 5- 10 - 16 STATIC WATER LEVEL (feet)* 2.81 3.74 4.60 WELL DEPTH (feet)* 14.42 12.41 48.75 PUMP INLET DEPTH (feet)* 5- 10 - 16 5- 10 - 16 4.60 START PURGE TIME (feet)* 12.41 48.75 48.75 END PURGE TIME (Military) 13:35 12:00 12:50 13:05 PURGE VOLUME (gallons) 1.0 2.0 2.5 2.5 2.5 SAMPLE TIME (Military) 13:50 12:30 13:10 13:10 STABILIZED INDICATOR PARAMETERS READINGS 1st 2nd 3rd 1st 2nd TIME (minutes since initial reading) 1:00 2:00 3:00 1:00 2:00				
STATIC WATER LEVEL (feet)* 2.81 3.74 4.60				
WELL DEPTH (feet)* 14.42 12.41 48.75 PUMP INLET DEPTH (feet)* 13:35 12:00 12:50 START PURGE TIME (Military) 13:45 12:20 13:05 PURGE VOLUME (gallons) 1.0 2.0 2.5 SAMPLE TIME (Military) 13:50 12:30 13:10 STABILIZED INDICATOR PARAMETERS READINGS 1st 2nd 3rd 1st 2nd TIME (minutes since initial reading) 1:00 2:00 3:00 1:00 2:00				
PUMP INLET DEPTH (feet)*				
START PURGE TIME (Military) 13:35 12:00 12:50 END PURGE TIME (Military) 13:45 12:20 13:05 PURGE VOLUME (gallons) 1.0 2.0 2.5 SAMPLE TIME (Military) 13:50 12:30 13:10 STABILIZED INDICATOR PARAMETERS READINGS 1st 2nd 3rd 1st 2nd TIME (minutes since initial reading) 1:00 2:00 3:00 1:00 2:00				
END PURGE TIME (Military) 13:45 12:20 13:05				
PURGE VOLUME (gallons) 1.0 2.0 2.5 SAMPLE TIME (Military) 13:50 12:30 13:10 STABILIZED INDICATOR PARAMETERS READINGS 1st 2nd 3rd 1st 2nd TIME (minutes since initial reading) 1:00 2:00 3:00 1:00 2:00				
SAMPLE TIME (Military) 13:50 12:30 13:10 STABILIZED INDICATOR PARAMETERS READINGS 1st 2nd 3rd 1st 2nd 3rd 1st 2nd 2nd 1st 2nd				
STABILIZED INDICATOR PARAMETERS READINGS 1st 2nd 3rd 1st 2nd 3rd 1st 2nd 2st 2nd 2st				
PARAMETERS READINGS 1st 2nd 3rd 1st 2nd 3rd 1st 2nd TIME (minutes since initial reading) 1:00 2:00 3:00 1:00 2:00 3:00 1:00 2:00				
· · · · · · · · · · · · · · · · · · ·	3rd			
45.40 45.40 45.00 0.00 0.07 0.00 40.54 40.50	3:00			
TEMPERATURE (° C) 15.49 15.40 15.36 9.96 9.97 9.98 10.51 10.52	10.52			
ELECTRICAL CONDUCTANCE at 25° C (us/cm) 2.69 2.71 2.73 3.19 3.18 3.18 1.18 1.18	1.18			
DISSOLVED OXYGEN (ppm) 0.0 0.0 0.0 2.70 2.64 2.62 0.23 0.23	0.22			
pH 6.99 7.02 7.01 6.82 6.82 6.82 7.24 7.24	7.24			
DISSOLVED OXYGEN (% Sat.) 0.0 0.0 25.0 24.4 24.2 2.2 2.1	2.1			
Turbidity 2.6 2.9 2.8 12.2 12.4 12.3 1.2 1.3	1.3			
ORP (mV) -71 -74 -73 335 336 273 263	253			
COLOR Clear Clear Clear	Clear			
ODOR None None None	None			
CLARITY Clear Clear Clear				
SAMPLING PARAMETERS # OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
ENDING WATER LEVEL (feet*) 4.33 3.91 4.64	4.64			
NAME OF LABORATORY CT Laboratories CT Laboratories CT Laboratories	CT Laboratories			
DATE SENT TO LAB AMK AMK AMK				
*Measured from top of well casing.	AMK			

^{*}Measured from top of well casing.

PROJECT INFORMATION				INSTRUMENTS											
PROJECT Oconomowoc Elec			ating		Temp. &	Temp. & pH Flow Cell									
PROJECT NO.	117-7413001				Conduct	ivity	Flo	w Cell							
LOCATION Oconomowoc WI				ORP	ORP Flow Cell										
PERSONNEL	Ashley Kowa	lewski			DO	DO Flow Cell									
MONITOR V			MW-1	02D			MW-103	3							
WATER TYPE		Groundwater			G	round	wate	er	G	roundwa	ter				
DATE (month/da	y/year)	5- 13 -16	5	5- 18 -1	6			5- 11 -10	6						
STATIC WATER	LEVEL (feet)*	7.24			8.14				5.61						
WELL DEPTH (fe	eet)*	15.56			48.36				16.57						
PUMP INLET DE	PTH (feet)*														
START PURGE 1	ΓΙΜΕ (Military)	10:00			9:40				11:10						
END PURGE TIM	IE (Military)	12:25			10:05				11:30						
PURGE VOLUME (gallons)		2.0			2.0				1.5						
SAMPLE TIME (I	Military)	10:30			10:10				11:35	11:35					
STABILIZED INDICATOR PARAMETERS READINGS		1st	2nd	3rd	1st	2nd		3rd	1st	2nd	3rd				
TIME (minutes s	ince initial reading)	1:00	2:00	3:00	1:00	2:00		3:00	1:00	2:00	3:00				
TEMPERATURE	(° C)	12.08	12.13	12.17	11.53	11.56	3	11.56	11.72	11.70	11.70				
ELECTRICAL CO	ONDUCTANCE	1.23	1.23	1.23	1.39	1.39		1.40	0.959	0.959	0.964				
at 25° C (us/cm) DISSOLVED OX	VGEN (nnm)	6.84	6.83	6.79	0.30	0.30		0.29	0.0	0.0	0.0				
pH	ГОЕН (ррш)	7.13	7.14	7.14	6.79	6.79		6.79	7.02	7.02	7.02				
DISSOLVED OX	YGEN (% Sat)	65.9	65.9	65.6	2.8	2.9		2.8	0.0	0.0	0.0				
Turbidity	10L14 (70 Out.)	0.0	0.0	0.0	0.0	0.0		0.0	4.7	4.6	5.2				
ORP (mV)		355	356	356	0	-1		-2	255	254	254				
COLOR		Clear	1 333	1 333	Clear				Clear						
ODOR		None	None				None								
CLARITY		Clear			Clear				Clear						
SAMPLING PA	RAMETERS	# OF CONT	AINERS & VO	DLUME; CONT	AINER TYPE	(A=AMBI	ER; G	=GLASS; P=	S; P=PLASTIC);						
ENDING WATER LEVEL (feet*)		7.38	(9; F=FIELD ADDED) OR NEUTR				5.84						
NAME OF LAND	DATORY														
DATE SENT TO		CT Labo	oratories		CT Lab	CT Laboratories			CT Laboratories						
SAMPLER'S NA		AMK			AMK				AMK						
*Measured from to					<u> </u>										

^{*}Measured from top of well casing.

PROJECT INFORMATION						INSTRUMENTS						
PROJECT Oconomowoc Electroplati			ting		Temp. &	рН	Flow	v Cell				
PROJECT NO.	117-7413001				Conducti	vity	Flow	v Cell				
LOCATION	Oconomowoc	WI			ORP		Flow	v Cell				
PERSONNEL	Ashley Kowa	lewski			DO	po Flow Cell						
MONITOR WELL ID		MW-103D				MW-105S				MW-105)	
WATER TYPE		G	roundwat	er	G	round	water	٢	G	roundwat	er	
DATE (month/day	y/year)	5- 18 -16	5- 11 -16	5			5- 11 -16	6				
STATIC WATER	LEVEL (feet)*	5.02	3.33				2.82					
WELL DEPTH (fe	eet)*	26.86			15.58				29.61			
PUMP INLET DEPTH (feet)*												
START PURGE TIME (Military)		11:15			9:50				11:00			
END PURGE TIM	IE (Military)	11:35			10:15				11:15			
PROJECT NO. 117-741300 LOCATION OCONOMOWO PERSONNEL Ashley KOW MONITOR WELL ID WATER TYPE DATE (month/day/year) STATIC WATER LEVEL (feet)* WELL DEPTH (feet)* PUMP INLET DEPTH (feet)* START PURGE TIME (Military) END PURGE TIME (Military) SAMPLE TIME (Military) STABILIZED INDICATOR PARAMETERS READINGS TIME (minutes since initial reading TEMPERATURE (° C) ELECTRICAL CONDUCTANCE at 25° C (us/cm) DISSOLVED OXYGEN (ppm) PH DISSOLVED OXYGEN (% Sat.) Turbidity ORP (mV) COLOR ODOR CLARITY SAMPLING PARAMETERS ENDING WATER LEVEL (feet*)		2.5			3.0				1.5			
WATER TYPE DATE (month/day/year) STATIC WATER LEVEL (feet)* WELL DEPTH (feet)* PUMP INLET DEPTH (feet)* START PURGE TIME (Military) END PURGE TIME (Military) PURGE VOLUME (gallons) SAMPLE TIME (Military) STABILIZED INDICATOR PARAMETERS READINGS TIME (minutes since initial reading) TEMPERATURE (° C) ELECTRICAL CONDUCTANCE at 25° C (us/cm) DISSOLVED OXYGEN (ppm) pH DISSOLVED OXYGEN (% Sat.) Turbidity ORP (mV) COLOR ODOR CLARITY		11:40/11	:45		10:30/10):35			11:20			
		1st	2nd	3rd	1st	2nd		3rd	1st	2nd	3rd	
TIME (minutes si	ince initial reading)	1:00	2:00	3:00	1:00	2:00	•	3:00	1:00	2:00	3:00	
		11.43	11.45	11.46	12.83	12.86	•	12.88	12.39	12.40	12.41	
	ONDUCTANCE	1.11	1.11	1.11	1.52	1.52	•	1.53	1.40	1.40	1.40	
DISSOLVED OXY	GEN (ppm)	0.02	0.02	0.02	0.0	0.0	0	0.0	0.0	0.0	0.0	
рH		6.79	6.80	6.80	7.04	7.04	7	7.04	7.16	7.16	7.16	
DISSOLVED OXY	GEN (% Sat.)	0.2	0.2	0.2	0.0	0.0	(0.0	0.0	0.0	0.0	
Turbidity		0.0	0.0	0.0	13.1	13.9	•	13.4	49.9	47.9	48.1	
ORP (mV)		222	220	218	-16	-17	-	-17	-53	-53	-53	
COLOR		Clear			Clear				Clear			
ODOR		None			None				None			
CLARITY		Clear			Clear				Clear			
SAMPLING PA	RAMETERS			LUME; CONTA =LAB ADDED						NO)		
ENDING WATE	R LEVEL (feet*)	5.62			3.56	3.56			2.88			
NAME OF LABOR	RATORY	CT Labo	ratories		CT Labo	CT Laboratories			CT Laboratories			
DATE SENT TO L	LAB											
SAMPLER'S NA		AMK			AMK				AMK			
*Measured from to	p of well casing.											

^{*}Measured from top of well casing.

PROJECT INFORMATION					INSTRUMENTS									
				Temp. &	Temp. & pH Flow Cell									
PROJECT NO.	117-7413001				Conduct	Conductivity Flow Cell								
LOCATION				ORP	ORP Flow Cell									
PERSONNEL	Ashley Kowa	lewski			DO		Flow	v Cell						
MONITOR V	WELL ID	MW-105B				TW-2	021			OW-6				
WATER TYPE		Groundwater			G	round	water	ſ	G	roundwat	ter			
DATE (month/da	y/year)	5- 11 -10	6		5- 18 -1	6			5- 18 -16	6				
STATIC WATER	LEVEL (feet)*	3.41			5.23				12.02					
WELL DEPTH (fe	eet)*	47.13			20.98				50.56					
PUMP INLET DE	PTH (feet)*													
START PURGE 1	ΓΙΜΕ (Military)	11:35			14:50				12:00					
END PURGE TIM	IE (Military)	11:52			15:15				12:20					
PURGE VOLUME (gallons)		4.0	4.0						2.5					
SAMPLE TIME (Military)		11:50			15:20				12:25					
STABILIZED INDICATOR PARAMETERS READINGS TIME (minutes since initial reading)		1st	2nd	3rd	1st	2nc	i	3rd	1st	2nd	3rd			
TIME (minutes si	ince initial reading)	1:00	2:00	3:00	1:00	2:00	3	3:00	1:00	2:00	3:00			
TEMPERATURE	• •	18.44	18.48	18.52	11.24	11.23	3 1	11.28	12.39	12.35	12.40			
ELECTRICAL CO at 25° C (us/cm)	ONDUCTANCE	0.767	0.766	0.764	1.19	1.19	1	1.19	0.637	0.637	0.637			
DISSOLVED OXY	YGEN (ppm)	0.0	0.0	0.0	2.68	2.61	2	2.55	3.39	3.40	3.40			
pН		7.57	7.57	7.57	7.02	7.01	7	7.02	9.16	9.17	9.18			
DISSOLVED OX	YGEN (% Sat.)	0.0	0.0	0.0	25.4	24.7	2	24.1	32.8	33.0	32.9			
Turbidity		4.0	3.8	4.1	0.0	0.0	(0.0	0.0	0.0	0.0			
ORP (mV)		-11	-8	-9	56	56		55	157	160	163			
COLOR		Clear			Clear				Clear					
ODOR		None			None				None					
CLARITY		Clear			Clear				Clear					
SAMPLING PA	RAMETERS	# OF CONT	AINERS & VO	LUME; CONT =LAB ADDED	AINER TYPE ; F=FIELD AI	(A=AMBE ODED) OR	R; G=G NEUTR	BLASS; P=P RAL; FILTE	SLASS; P=PLASTIC); RAL; FILTERED (YES or NO)					
ENDING WATE	ER LEVEL (feet*)	17.84			5.28				17.13					
NAME OF LABO	RATORY	CT Lab	oratories		CT Lab	CT Laboratories			CT Laboratories					
DATE SENT TO I	LAB	A NA K			- AME									
SAMPLER'S NA	ME on of well casing	AMK			AMK				AMK					

^{*}Measured from top of well casing.

PROJECT INFORMATION					INSTRUMENTS									
				Temp. 8	Temp. & pH Flow Cell									
PROJECT NO.	117-7413001			Conductivity Flow Cell										
LOCATION	Oconomowoc	: WI			ORP		Fl	ow Cell						
PERSONNEL	Ashley Kowa	lewski				DO Flow Cell								
MONITOR V	WELL ID	ļ i	MW-14DI	R										
WATER TYPE		Groundwater			G	round	lwat	ter	G	roundwa	ter			
DATE (month/day/year)		5- 10 -10	6											
STATIC WATER LEVEL (feet)* WELL DEPTH (feet)*		4.18												
` ′		31.74												
PUMP INLET DEPTH (feet)* START PURGE TIME (Military)														
START PURGE TIME (Military) END PURGE TIME (Military)		14:00												
END PURGE TIME (Military)		14:15												
PERSONNEL Ashley Kowa MONITOR WELL ID WATER TYPE DATE (month/day/year) STATIC WATER LEVEL (feet)* WELL DEPTH (feet)* PUMP INLET DEPTH (feet)* START PURGE TIME (Military)		2.0												
SAMPLE TIME (I	Military)	14:20												
		1st	2nd	3rd	1st	2nd	d	3rd	1st	2nd	3rd			
	ince initial	1:00	2:00	3:00	:00	:00		:00	:00	:00	:00			
	(° C)	10.72	10.71	10.70										
	ONDUCTANCE	1.17	1.17	1.17										
						-				1				
	YGEN (ppm)	0.0	0.0	0.0		<u> </u>				+				
•		7.14 0.0	7.14 0.0	7.14 0.0		<u> </u>				+				
	YGEN (% Sat.)	1.8	1.5	1.7		<u> </u>				1				
						<u> </u>				1				
		289	288	288						<u> </u>				
		Clear None												
		Clear												
			TAINEDS & V	OLUME; CON	TAINED TVD	E /A_AM	DED:	G-GLASS: D	-DI ASTICI:					
SAMPLING PA	RAMETERS	PRESERVA	ATIVE TYPE (L=LAB ADDE	D; F=FIELD	ADDED) (OR N	EUTRAL; FIL	TERED (YES	or NO)				
ENDING WATE	ER LEVEL (feet*)													
NAME OF LABO	RATORY	CT Lab	oratories											
DATE SENT TO	LAB													
SAMPLER'S NA		AMK												
*Measured from to	n of well casing													

^{*}Measured from top of well casing.

APPENDIX D

NATURAL BIODEGRADATION POTENTIAL SCORING CRITERIA TABLE

Table 1: Analytical Parameters and Weighting for Screening

Analyte	Concentration in Most Contaminated Zone	Interpretation/Comments	Points		
Oxygen ^a	<.5 mg/L	Tolerated; suppresses reductive dechlorination at higher concentrations	3		
Oxygen ^a	>1 mg/L	Vinyl chloride may be oxidized aerobically, but reductive dechlorination will not occur	-3		
Nitrate ^a	<1 mg/L	May compete with reductive pathway at higher concentrations	2		
Manganese (II)	>1 mg/L	Anaerobic oxidation of cDCE possible	2		
Iron (II)	>1 mg/L	Reductive pathway possible; anaerobic oxidation of vinyl chloride to CO2 possible	3		
Sulfate ^a	<20 mg/L	May compete with reductive pathway at higher concentrations	2		
Sulfide ^a	>1 mg/L	Reductive pathway possible	3		
Methane ^a	>.01 mg/L	Ultimate reductive breakdown product	2		
	>1	Vinyl chloride accumulates	3		
	<1	Vinyl chloride oxidizes			
Oxidation reduction ootential ^a	<50 mV against Ag/AgCl	Reductive pathway possible	<50 mV = 1 <-100 mV = 2		
oH ^a	5 <ph<9< td=""><td>Tolerated range for reductive pathway</td><td></td></ph<9<>	Tolerated range for reductive pathway			
OOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	2		
Temperature ^a	>20°C	At T>20°OC, chemical process can be accelerated ^(†)	1		
Carbon dioxide	>2x background	Ultimate oxidative breakdown product	1		
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	1		
Chloride ^a	>2x background	Product of organic chlorine; compare chloride in plume to background conditions	2		
Hydrogen	>1 nM	Reductive pathway possible; vinyl chloride may accumulate	3		
	<1 nM	Vinyl chloride oxidized			
olatile fatty acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	2		
BTEX ^a	>0.1 mg/L	Carbon and energy source; drives dechlorination	2		
Perchloroethene ^a		Material released	0		
Frichloroethene ^a		Material released	0		
		Product of perchloroethene dehalogenation	2 ^b		
Dichloroethene ^a		Material released	0		
		Product of trichloroethene biodegradation; if amount of <i>cis</i> -1,2-dichloroethene is greater than 80% of total dichloroethene, it is likely a product of trichloroethene or perchloroethylene dehalogenation.	2 ^b		
Vinyl chloride ^a		Material released	0		
		Product of dichloroethene biodegradation	2 ^b		
Ethene/Ethane	<0.1 mg/L	Product of vinyl chloride dehalogenation	>0.01 mg/L=2		
			>0.1 = 3		
Chloroethane ^a		Product of vinyl chloride biodegradation under reducing conditions	2		
1,1,1-Trichloroethane ^a		Material released	0		
1,1-dichloroethene ^a		Product of trichloroethene degradation or abiotic degradation of			

^a Required analysis.

Points awarded only if it can be shown that the compound is a breakdown product (i.e., not a constituent of the source of NAPL) (Modified from: Wiedemeier, T.H., J.T. Wilson, D.H. Kampbell, R.N. Miller, and J.E. Hansen. 1996).

^(†) Temperature may have limited utility for assessing biodegradation potential. While some have found that the biodegradation rate of some chlorinated compounds is temperature dependent, others (9) found that the degradation of toluene is not dependent on temperature. Temperature may have a larger affect on abiotic degradation processes such as the degradation of 1,1,1-trichloroethylene.