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May 2, 2019

VIA FEDERAL EXPRESS – STANDARD

Mr. Steven Rounds
Hazardous Substances Engineer
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
9211 Oakdale Avenue
Chatsworth, CA 91311-6505

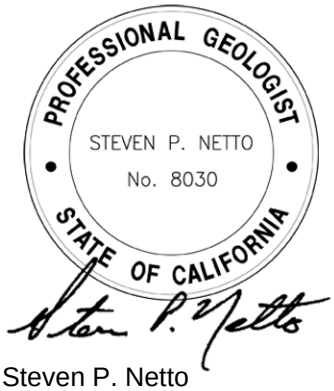
Re: Transmittal of Results of Groundwater Monitoring and Groundwater Extraction and Treatment Pilot Testing, 2018/2019 Annual Report, Raytheon Company, (Former Hughes Aircraft Company) Facility, 1901 West Malvern Avenue, Fullerton, California

Dear Mr. Rounds:

Enclosed is one hard copy with a compact disc that contains a copy of the above-referenced report. If you have any questions or require further information, please contact us at 858-455-6500.

Sincerely,

HARGIS + ASSOCIATES, INC.



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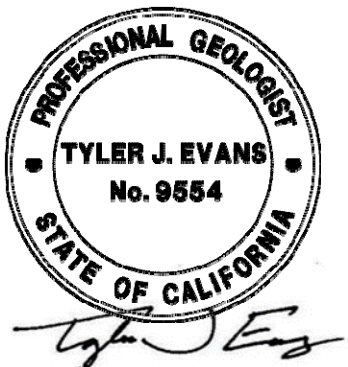

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MAY 2, 2019

RESULTS OF GROUNDWATER MONITORING AND GROUNDWATER EXTRACTION AND TREATMENT PILOT TESTING 2018/2019 ANNUAL REPORT RAYTHEON COMPANY FORMER HUGHES AIRCRAFT COMPANY FACILITY 1901 WEST MALVERN AVENUE FULLERTON, CALIFORNIA

PREPARED FOR:
RAYTHEON COMPANY

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

RESULTS OF GROUNDWATER MONITORING AND
GROUNDWATER EXTRACTION AND TREATMENT PILOT TESTING
2018/2019 ANNUAL REPORT
RAYTHEON COMPANY (FORMER HUGHES AIRCRAFT COMPANY) FACILITY
1901 WEST MALVERN AVENUE
FULLERTON, CALIFORNIA

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ACRONYMS AND ABBREVIATIONS

1,1-DCA	1,1-Dichloroethane
1,2-DCA	1,2-Dichloroethane
1,1-DCE	1,1-Dichloroethylene
AGAWP	Additional Groundwater Assessment Work Plan
ATL	Advanced Technology Laboratories, Inc., Signal Hill, California
cis-1,2-DCE	cis-1,2-Dichloroethylene
CEQA	California Environmental Quality Act
CM	Conceptual Model
CMS	Corrective Measures Study
COPCs	Compounds of potential concern
DTSC	California Environmental Protection Agency, Department of Toxic Substances Control
DWR	California Department of Water Resources
EPA	U. S. Environmental Protection Agency
GETS	Groundwater Extraction and Treatment System
GMWP/SAP	Groundwater Monitoring Work Plan and Sampling and Analysis Plan
gpm	Gallons per minute
H+A	Hargis + Associates, Inc.
LAS	Lower Aquifer System
MAS	Middle Aquifer System
MCL(s)	Maximum Contaminant Level(s)
msl	Mean sea level
OCGB	Orange County Groundwater Basin
PCE	Tetrachloroethylene
QA/QC	Quality assurance/quality control
Raytheon	Raytheon Company
RFI	RCRA Facility Investigation
SIM	Selective ion monitoring
the Site	Former Raytheon Company facility located at 1901 West Malvern Avenue, Fullerton, California
TCE	Trichloroethylene
TCFM	Trichlorofluoromethane
UAS	Upper Aquifer System
ug/l	Micrograms per liter
VOC(s)	Volatile organic compound(s)
UV-Ox	Ultra-violet light and hydrogen peroxide oxidation

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1.0 INTRODUCTION

This report has been prepared by Hargis + Associates, Inc. (H+A) on behalf of the Raytheon Company (Raytheon) and presents the results of groundwater monitoring and groundwater treatment pilot testing conducted during the second quarter 2018 through the first quarter 2019 at the former Raytheon (formerly Hughes Aircraft Company) facility located at 1901 West Malvern Avenue, Fullerton, California (the Site) (Figure 1). Previous investigations at the Site were conducted as part of the Resource Conservation and Recovery Act Facility Investigation (RFI) under the direction of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) (H+A, 1998). Periodic groundwater monitoring and additional groundwater assessment have been conducted since completion of the RFI to support a Corrective Measures Study (CMS) for the Site under the continuing direction of the DTSC (H+A, 2003a, 2003b, 2003c, 2003d, 2004a, 2004b, 2005a, 2008b, 2009b, 2010a, 2010c, 2011a, 2011c, 2011e, 2013a, and 2013e). As part of the CMS, an extended groundwater extraction and treatment pilot test began operation in July 2008 (H+A, 2005b, 2009c, 2011d, and 2013b).

Groundwater monitoring consists of measuring groundwater levels and collecting groundwater samples from monitor wells and piezometers at the Site (Figure 2). Quarterly water level measurements and groundwater samples were collected during this annual reporting period in May 2018, August 2018, November 2018, and February 2019 from accessible monitor wells and piezometers in general accordance with the Groundwater Monitoring Work Plan and Sampling and Analysis Plan (GMWP/SAP), and subsequent addenda except where may be noted herein (Section 2.1) (Tables 1 and 2) (H+A, 2003c, 2011a, and 2011e).

A summary of regional and local hydrogeologic conditions in the area and at the Site are presented in the following sections. Regional and local hydrogeologic conditions are described in greater detail in previously submitted well construction reports (H+A, 2005c, 2009a, 2010d, and 2011b).

1.1 REGIONAL HYDROGEOLOGIC FRAMEWORK

The Site is located within the Orange County Groundwater Basin (OCGB). Aquifers in the OCGB have been divided into three separate systems called the upper, middle, and lower regional groundwater systems (California Department of Water Resources [DWR], 1967).

The Upper Aquifer System (UAS) is located within the OCGB to the south of Malvern Avenue. The UAS in this area includes stream terrace and older alluvial deposits as well as the La Habra/Lakewood formation. It is believed that coarse-grained facies in the La Habra/Lakewood formation, corresponding to the upper aquifer, pinch out south of the Coyote Hills or are folded and unconformably truncated near the southern boundary of the Site (H+A, 2005c, 2009a, 2010d, and 2011b).

The Middle Aquifer System (MAS) underlies the UAS to the south of Malvern Avenue and extends to approximately -1,500 feet mean sea level (msl) in this area. The MAS is believed to include the Coyote Hills formation and the San Pedro formation and may include portions of the La Habra formation incised as channels into the underlying Coyote Hills formation.

The Lower Aquifer System (LAS) underlies the MAS and extends to the base of the freshwater zone. The LAS is believed to include portions of the Fernando group of Pliocene age. The base of the freshwater zone in the vicinity of the Site is estimated to be approximately -300 feet msl just north of the Site and -3,000 feet msl south of the Site in the OCGB (DWR, 1967). The base of the freshwater zone immediately beneath the Site has not been established.

Groundwater production in the OCGB is primarily from the lower portion of the UAS and the upper portion of the MAS between approximately -250 feet msl and -1,000 feet msl (DWR, 1967).

1.2 SITE HYDROGEOLOGY

Site hydrostratigraphic units consist of strata having similar hydraulic properties and lithologic characteristics, which have been correlated across the southern portion of the Site. The soils encountered at the Site are generally interbedded sand, silty to clayey sand, sandy silt, and sandy clay, with local gravel layers (H+A, 1998). Evaluation of strata on a relatively small scale, on the order of inches to a few feet, indicate that soil types encountered in the subsurface are typically very discontinuous, precluding detailed correlation between boreholes. However, larger scale correlations have been made at the Site and vicinity.

A groundwater conceptual model (CM) for the Site was developed as part of the RFI and refined during additional groundwater assessment activities through 2014. Results of additional assessment activities were documented after discrete phases of work in several well construction and groundwater sampling reports (H+A, 2005c, 2009a, 2010d, 2011b, 2012a, 2013c, 2013d, and 2014). The following provides a general overview based on the RFI and well construction reports for the Site.

Two localized perched zones were identified under portions of the Site during the course of the RFI (H+A, 1998). Perched zones were identified based on the occurrence and behavior of groundwater, and are not clearly expressed lithologically. The perched zones do not represent a usable source of groundwater due to the limited area over which they occur and the small quantities of water flowing through these zones.

The water table in the regional groundwater system beneath the Site occurs in unconsolidated sediments ranging from sand to silt and clay (H+A, 1998). The upper portion of the regional groundwater system is heterogeneous as indicated by the differences in the lithology encountered during the construction of the groundwater monitor wells. The hydraulic conductivity of these sediments was estimated to range from approximately 0.1 foot per day to approximately 100 feet per day (H+A, 2008b).

Wells completed in lithologic intervals with varying degrees of hydraulic communication with each other and with aquifer units in the OCGB respond differently to changes in regional water levels. Those in good communication respond rapidly to regional changes, while those in finer-grained

or isolated lithologic units exhibit a dampened and delayed response to regional water level changes. This differential response may also appear as a temporary reversal of the vertical hydraulic gradients in the vicinity of paired monitor well groupings. Such reversals tend to be repeated, representing a seasonally-linked pattern of gradient reversals, from downwards during periods of expected high basin wide groundwater extraction to upwards during the shorter winter season (Figures 3 through 8) (H+A, 2005c). Together with lithologic and geophysical data collected during the groundwater assessments, these differential responses to water level fluctuations facilitated the identification and correlation of several hydrogeologic units across the Site, informally designated with increasing depth they include: Unit A, the finer-grained intervening Unit AB, Unit B (the "primary transport zone" or "Target Zone"), the finer-grained intervening Unit BC, Unit C, and Unit D.

The hydrogeology in the southern portion of the Site is interpreted to include a structural fold based on regional subsurface studies and on an evaluation of Site lithology, geophysical, water level, and water quality trends (H+A, 2005c, 2009a, 2010d, and 2011b). The groundwater CM was refined to incorporate delineation of this structural feature following subsequent phases of groundwater assessment. The primary geologic structural feature at and in the vicinity of the Site is the monoclinal fold exhibited by a local southward dip of approximately 42 degrees in the hydrogeologic units underlying terrace deposits between exploratory boring EB-1 and monitor well MW-31 (Figures 9 through 11) (H+A, 2010d and 2015a). These dipping units become nearly horizontal south of Malvern Avenue, in the OCGB to the south of the Site.

The groundwater CM has been refined based on available subsurface assessment information to date. The groundwater CM is intended to be descriptive of conditions observed in the subsurface, as well as, predictive of geologic and hydrogeologic conditions likely to be encountered in the course of any additional subsurface work. The groundwater CM is intended to describe conditions at both the regional scale and at the smaller, Site-specific scale. It is expected that the groundwater CM will continue to be refined with time as it is continuously tested against additional new groundwater monitoring data and other new data that may become available.

2.0 GROUNDWATER MONITORING

Groundwater monitoring was conducted in general accordance with the DTSC-approved GMWP/SAP and subsequent addenda (DTSC, 2003, 2011, and 2013; H+A, 2003c, 2011a, 2011e, 2013c, 2013e, and 2017b). Groundwater monitoring included quarterly water level measurements in all Site monitor wells, piezometers, and extraction wells (Figure 12). Water levels were measured on May 7, 2018, August 20, 2018, November 6, 2018, and February 11, 2019 during this annual reporting period (Table 3). Groundwater samples were collected from piezometers and monitor wells according to the analytical schedule detailed in the GMWP/SAP (DTSC, 2013; H+A, 2003c, 2011a, 2011e, 2013c, and 2013e), as updated (Table 1). Additional groundwater monitoring was conducted as part of routine operation and monitoring of the pilot Groundwater Extraction and Treatment System (GETS) (Section 3.0).

2.1 WELL ACCESSIBILITY AND STATUS

All existing wells and piezometers at the Site were accessible during the groundwater monitoring events (Table 1). Several wells and piezometers that were installed prior to and during the RFI, and as part of earlier Site remediation activities, were previously decommissioned during property redevelopment at the Site in the early 2000s (H+A, 2002 and 2004c), and do not appear in the data tabulations compiled for this report (Tables 2 through 5).

2.1.1 Wells Installed Since Approval of the Sampling and Analysis Plan

In accordance with the Additional Groundwater Assessment Work Plan (AGAWP) Addendum 4, two monitor wells, MW-36 and MW-37, were installed and sampled in 2012 (H+A, 2011c); in accordance with the AGAWP Addendum 5, three monitor wells, MW-38, MW-39, and MW-40, were installed and sampled in 2013 (H+A, 2013a); in accordance with the AGAWP Addendum 6, one monitor well, MW-41, was installed and sampled in 2014 (H+A, 2013e). In accordance with the GMWP/SAP Addendum No. 1, monitor wells MW-36 through MW-41 were incorporated into the quarterly groundwater monitoring program at the Site (Tables 1 and 2; Figure 2) (DTSC, 2011; H+A, 2011a and 2011e).

2.1.2 Changes in Monitor Well Sampling Frequency

In accordance with the Addendum No. 2 to the Groundwater Monitoring Plan and Sampling and Analysis Plan (Revision 1.0), monitor wells MW-37 and MW-38 were changed from quarterly to annual sampling frequency. Therefore, MW-37 and MW-38 were sampled annually starting March 2018 (H+A, 2017b).

2.1.3 Deviations from Groundwater Monitoring Work Plan and Sampling and Analysis Plan

Two monitor wells, MW-38 and MW-40, were not sampled in accordance with their sampling schedule outlined in the GMWP/SAP and subsequent addenda (DTSC, 2003, 2011, and 2013; H+A, 2003c, 2011a, 2011e, 2013c, 2013e, and 2017b). During the February 2019 groundwater monitoring event, groundwater samples were not collected from monitor wells MW-38 and MW-40 due to well pump operation issues. The well pump operation issues are expected to be resolved before the next scheduled quarterly monitoring event in May 2019. Monitor well MW-38 is sampled annually in February of every year, however, since a sample was not collected in February 2019, a groundwater sample will be collected from MW-38 during the next quarterly monitoring event in May 2019. There were no other deviations from the GMWP/SAP during this annual reporting period.

2.2 GROUNDWATER LEVELS

Depth to groundwater was measured in all monitor wells, piezometers, and extraction wells. Water level elevations were calculated by subtracting the measured depth to water in each well from its surveyed reference point elevation (Table 3). Groundwater level elevations have been plotted for the northern perched zone and the regional groundwater system (Figure 12). Water level elevations in Unit B wells have been contoured (Figures 13A through 13D).

2.2.1 Perched Zone Water Levels

A hydrograph presenting historical water level data for the perched zone has been prepared (Figure 14). Water levels in the upgradient (northern) portion of the perched zone were depressed during operation of the voluntary dual-phase extraction system, but gradually recovered in 2000

and 2001 (represented by former piezometers P-02D and P-04 on Figure 14) (H+A, 2000). Since then, water levels in the northern portion of the perched zone have remained relatively stable. The water level elevation in piezometer P-09, which is located in the northern portion of the perched zone, has been stable between 60 feet msl and 65 feet msl, fluctuating within a range of less than 2.5 feet over its period of record since installation in mid-2003. Water levels in the perched zone do not consistently reflect the seasonal fluctuations observed in regional groundwater system monitor wells at the Site (Section 2.2.2), indicating that the perched zone is not in direct hydraulic communication with the regional groundwater system.

Water level trends observed in the southernmost perched zone piezometer, P-07, suggest that the perched zone merges with the regional groundwater system in this area. Water level increases were observed in piezometer P-07 between December 2005 and June 2006, followed by a decline to dry conditions by September 2007 (Figure 14). Regional water levels reached historical highs within this same period in mid-2006 and began a continual decline during the last three quarters of 2007. The water level elevation in piezometer P-07 has been relatively stable and slowly increasing between December 2007 and mid-2012 while the regional groundwater system continued to decline to historical lows in late 2008. The water level elevation in piezometer P-07 decreased by approximately 1.0 feet between February 2018 and February 2019. Trends observed in piezometer P-07 suggest that this piezometer responds to regional water level increases above a certain threshold near approximately 30 feet msl, but does not exhibit a direct hydraulic connection with the regional groundwater system under typical conditions at the Site, where regional groundwater levels are lower than 30 feet msl at the Site.

2.2.2 Regional Groundwater System Water Levels

Water level elevations generally decreased in measured monitor and extraction wells between February 2018 and February 2019 (Table 3; Figures 3 through 8) (H+A, 2018b). Measured decreases from February 2018 to February 2019 ranged from approximately 1.0 feet at monitor well MW-32A to as much as 12.7 feet at monitor well MW-25. The highest water level elevation observed in wells at the Site in February 2019 was at monitor well MW-20, at an elevation of approximately 29.7 feet above msl. The lowest water level elevation observed in monitor wells at the Site in February 2019 was at monitor well MW-38, at an elevation of approximately 8.9 feet above msl (Table 3; Figure 12).

Hydrographs have been prepared based on water levels measured manually during the period from January 1997 through February 2019, and on data collected automatically using pressure transducer/data-loggers in select wells during the periods from November 1999 through March 2000 and January 2002 through current (Figures 3 through 8). Historical water level data from the regional groundwater system indicate an overall decline in regional groundwater levels from early 1997 through late 2002. Water levels began to recover in early 2003; following a record rainfall during the 2004-2005 season, water level elevations in regional groundwater monitor wells at the Site reached historical highs by about the spring of 2006. Water levels then rapidly declined to historical lows by November to December 2008. Water levels then recovered to near historical highs by May 2012 and then declined until October 2014. Water levels have been steadily rising since 2014 and reached near historical highs in January 2018. Within these longer-term trends, water level elevations in the regional groundwater system have generally fluctuated seasonally due to variations in groundwater production and recharge in the groundwater basin. (Figures 3 through 8) (H+A, 2005c, 2009a, 2010d, and 2011c).

Six monitor well clusters/nests are completed in the regional groundwater system, where water levels are monitored at several different vertical intervals to characterize vertical hydraulic gradients between successively deeper hydrogeologic units (EW-01/MW-16/MW-21/MW-24/MW-25, for convenience designated the “Footbridge cluster,” MW-23/MW-26A/MW-26B/MW-26C, for convenience designated the “Starbuck cluster”, MW-30A/MW-30B, designated the MW-30 nest, MW-32A/MW-32B/MW-32C, designated the MW-32 nest, MW-34A/MW-34B/MW-34C, designated the MW-34 cluster, and MW-35A/MW-35B/MW-35C, designated the MW-35 nest) (Table 2; Figures 12 and 15 through 20). The following provides a summary of vertical hydraulic gradients based on the February 2018 water level measurements at these well clusters/nests (Table 3).

- At the Footbridge cluster, the water level elevation in monitor well MW-21 was higher than the water level elevations in the other wells in that cluster. A downward vertical hydraulic gradient was observed between monitor wells MW-24 and MW-25 and between extraction well MW-21 and monitor well MW-24. An upward vertical gradient was observed between inactive extraction wells EW-01 and MW-21 (Figure 15) (H+A, 2018b).

- At the Starbuck cluster, the water level elevation in monitor well MW-26C was higher than the water level elevations in the other wells in that cluster. A downward vertical gradient was observed between monitor wells MW-23 and MW-26A, and upward gradients were observed between monitor wells MW-26A and MW-26B and monitor wells MW-26B and MW-26C (Figure 16) (H+A, 2018b).

- At the MW-32 nest, the water level elevation in monitor well MW-32C was higher than the water level elevations in the other wells in that nest. An upward vertical gradient was observed between monitor wells MW-32A and MW-32B and between monitor wells MW-32B and MW-32C (Figure 17) (H+A, 2018b).

- At the MW-30 nest, the water level elevation in monitor well MW-30B was higher than the water level elevation in monitor well MW-30A, indicating an upward vertical gradient (Figure 18) (H+A, 2018b).

- At the MW-34 cluster, the water level elevation in monitor well MW-34C was higher than the water level elevations in the other wells in that cluster. An upward vertical gradient was observed between monitor wells MW-34A and MW-34B and between monitor wells MW-34B and MW-34C (Figure 19) (H+A, 2018b).

- At the MW-35 nest, the water level elevation in monitor well MW-35A was higher than the water level elevations in the other wells in that nest. Downward vertical gradients were observed between monitor wells MW-35A and MW-35B, and an upward vertical gradient was observed between monitor wells MW-35B and MW-35C (Figure 20) (H+A, 2018b).

Occasional seasonal gradient reversals appear to reflect the variable extent of hydraulic communication between Site wells and the regional MAS of the OCGB (Figures 3 through 8). Water level data obtained from the six monitor well nests/clusters indicate that some wells (e.g., EW-01, MW-23, and MW-26C) are highly responsive to piezometric changes in the basin, whether resulting from regional or seasonal fluctuations or from local production well pumping in the northern portion of Fullerton. Other wells (e.g., MW-16, MW-21, and MW-25) appear to be in partial communication with the regional aquifer, exhibiting a dampened and delayed response to changes in the regional system or becoming seasonally isolated from the regional system. Finally, some wells (e.g., MW-24, MW-26A, and MW-26B) appear to be relatively isolated from the regional groundwater system, exhibiting relatively low amplitude and gradual seasonal

variation, with high water levels typically in the late spring months and low levels in the early fall (Figures 15 and 16). In February 2019, vertical hydraulic gradients at all well clusters/nests were towards the Unit B, with the exception of the monitor well MW-23-MW-26A/B/C cluster, where it appears a seasonal gradient reversal has occurred due to differential response of the regional aquifer recharge observed at this location.

2.3 CHEMICAL QUALITY OF GROUNDWATER

Two perched zone piezometers, 27 regional groundwater monitor wells, and 4 extraction wells were sampled in February 2019 (Table 1). All groundwater samples collected during the February 2019 monitoring event were analyzed for volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 8260B. Groundwater samples collected from select piezometers, monitor wells, and extraction wells were also analyzed for 1,4-dioxane using modified EPA Method 8270 in accordance with the groundwater sampling schedule (Table 1). Selective ion monitoring (SIM) was used by the primary laboratory for select analysis of 1,4-dioxane at lower-concentration wells to provide lower detection and reporting limits (EPA Method 8270 SIM).

Original and duplicate groundwater samples were analyzed by Advanced Technology Laboratories, Inc., Signal Hill, California (ATL) (Appendix A). Laboratory split groundwater samples were analyzed by Eurofins Calscience, Inc., Garden Grove, California (Appendix A). Chain-of-custody documentation was enclosed with each sample shipment. Results of groundwater sample VOC and 1,4-dioxane analyses have been summarized (Tables 4 and 5).

Prior to groundwater sample collection, each monitor well was purged until three casing or screen volumes were evacuated from the well, or the slow-recharge well protocol was followed for removal of at least one casing or screen volume, as appropriate (H+A, 2003c and 2008b). One screen volume is defined as the volume of water inside the screened interval of the well, and is typically used as the unit purge volume for wells where the submersible purge/sample pump is set near the top or within the screen interval, and there is relatively low water level drawdown during purging. At deeper wells where the top of the screened interval is below the maximum submergence capacity of the pump, pumps are generally set near their maximum submergence level, and a unit purge volume is then taken as the volume of water inside the screened interval

plus the volume of water inside the blank well casing below the pump. Additionally, samples also were collected after 1.5 screen volume was purged from three of the large-volume monitor wells during this event; these additional samples were collected to compare results between the 1.5-screen-volume purge method to the conventional three-screen-volume purge method which has been used historically at the Site for the large-volume monitor wells. Groundwater samples were collected after both 1.5 and three casing volumes had been purged from monitor wells MW-32B, MW-33, and MW-36. Groundwater samples were collected from the extraction wellhead(s) during operation of the pilot GETS. Extraction wells EW-01 and MW-21 were turned on temporarily for purging and sampling in February 2019, as current operation of the pilot GETS involves operation of extraction wells MW-29 and EW-02 only. Field parameters, including pH, specific conductance, dissolved oxygen, turbidity, and temperature, were monitored during well purging. Groundwater sampling field forms are provided (Appendix B).

Quality assurance/quality control (QA/QC) samples collected in February 2019 consisted of trip blanks, equipment rinsate blanks, field duplicates, and laboratory split samples. Trip blanks and the water used to collect the equipment rinsate blanks were provided by ATL. Field duplicate and/or laboratory split samples were collected for analysis of VOCs and 1,4-dioxane from monitor wells MW-30B and MW-32B in February 2019 (Table 4). Equipment rinsate blanks were collected at the rate of one per day when non-dedicated purging or sampling equipment was used.

The following sections describe the analytical results for VOC and 1,4-dioxane analyses of groundwater samples collected during the February 2019 groundwater monitoring event. Results from quarterly groundwater monitoring rounds conducted in May 2018, August 2018, and November 2018 were previously submitted as quarterly data submittals (H+A, 2018c, 2018d, and 2019).

2.3.1 Perched Water Zone

Two perched zone piezometers, P-07 and P-09, were sampled during the February 2019 groundwater monitoring event (Tables 4 and 5; Figure 21). The groundwater samples collected from perched zone piezometers P-07 and P-09 were analyzed for VOCs and 1,4-dioxane. VOCs detected in the groundwater samples collected from piezometer P-07 in February 2019 include 1,1-dichloroethylene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), tetrachloroethylene (PCE), and

trichloroethylene (TCE). 1,4-Dioxane was detected in the groundwater sample collected from piezometer P-07 at a concentration of 1,700 ug/l, within its historical range. 1,1-DCE was detected in the groundwater sample collected from piezometer P-09 in February 2019, at a concentration of 4.7 ug/l, within its historical range at this piezometer (Table 4).

2.3.2 Regional Groundwater System

Twenty-seven monitor wells and four extraction wells were sampled in February 2019 (Tables 1, 4, and 5; Figure 21). Samples collected from all regional groundwater system monitor and extraction wells were analyzed for VOCs. Groundwater samples collected from select monitor and extraction wells were also analyzed for 1,4-dioxane in accordance with the Groundwater Monitoring Program (GMP).

2.3.2.1 Volatile Organic Compounds in Regional Groundwater System Monitor and Extraction Wells

1,1-DCE was the principal VOC detected in groundwater samples collected from regional groundwater system monitor wells at the Site. The additional VOCs 1,1,2-Trichloroethane, 1,1-DCA, 1,2-Dichloroethane, benzene, carbon tetrachloride, chloroform, cis-1,2-dichloroethylene (cis-1,2-DCE), PCE, toluene, TCE, and Trichlorofluoromethane (TCFM) were detected at relatively low concentrations in groundwater samples collected in February 2019 (Table 4). The concentrations of 1,1-DCE have decreased significantly from the June 2008 historical highs of 4,900 ug/l in extraction well MW-21 and an estimated value of 1,600 ug/l in extraction well EW-01 since operation of the pilot GETS started in July 2008. 1,1-DCE was detected in groundwater samples collected from monitor well MW-26C beginning in December 2007 through December 2009. The concentration of 1,1-DCE at monitor well MW-26C generally declined since December 2007, with no detection of 1,1-DCE in recent samples at a reporting limit of 0.5 ug/l in March 2010 through February 2019.

Historical concentration ranges were evaluated for May 2018 through February 2019. VOC concentrations were generally within their respective historical ranges with the following exceptions.

- In second quarter 2018, there was a historical low of 1,1-DCE detected from the groundwater sample collected from extraction well EW-02 at a concentration of 2.3 ug/l.

A historical low of cis-1,2-DCE was detected at monitor well MW-30B of 6.9 ug/l. A historical high of chloroform was detected at monitor well MW-41 of 0.73 ug/l (H+A, 2018c).

- In third quarter 2018, the concentration of 1,1-DCA detected from extraction well MW-29 was non-detect for the first time in site history at <0.50 ug/l. A historical high of toluene was detected from the groundwater sampled collected from monitor well MW-20 at a concentration of 0.22J ug/l (H+A, 2018d).

- In fourth quarter 2018, there was a historical high concentration of chloroform at monitor well MW-30B of 0.39J ug/l. A historical high concentration of PCE was detected at 0.32J ug/l at monitor well MW-33 (H+A, 2019).

- In first quarter 2019, historical high concentrations of carbon tetrachloride and chloroform were detected in the groundwater samples collected from monitor well MW-06 at a concentration of 0.19J ug/l and 13 ug/l, respectively. Historical high concentrations of PCE were detected in the groundwater samples collected from monitor wells MW-13, MW-18, and MW-20 at 0.15J ug/l, 0.12J ug/l, and 0.14J ug/L, respectively, in February 2019.

2.3.2.2 1,4-Dioxane in Regional Groundwater System Monitor and Extraction Wells

In February 2019, 1,4-dioxane was detected in groundwater samples collected from regional groundwater system monitor wells MW-08, MW-16, MW-28, MW-30B, MW-34B, MW-36 and MW-41 and from extraction wells EW-01, MW-21, and MW-29. A historical high concentration of 1,4-dioxane was detected in a groundwater sample collected from monitor well MW-32B at a concentration of 6.9 ug/l in November 2018. (H+A, 2019).

2.3.2.3 Groundwater Quality in Site Hydrostratigraphic Zones

The following describes 1,1-DCE and 1,4-dioxane detected at the Site in February 2019 within the framework of the Site groundwater CM hydrostratigraphic zones (Tables 1 and 4; Figures 9 through 11 and 21).

- Two of the eight monitor wells screened in Unit A (MW-18 and MW-34A) were sampled for VOCs and 1,4-dioxane in February 2019. 1,1-DCE and 1,4-dioxane were not detected in the groundwater samples collected from Unit A (Table 4).

- Three of five monitor wells screened in Unit AB (MW-13, MW-15, and MW-32A) were sampled for VOCs in February 2019. 1,1-DCE was not detected in groundwater samples collected from Unit AB (Table 4). Two of the three monitor wells sampled for VOCs were also sampled for 1,4-dioxane (MW-13 and MW-32A). 1,4-Dioxane was not detected in the groundwater samples collected from MW-13 and MW-32A.

- Thirteen monitor wells (MW-16, MW-26C, MW-27, MW-28, MW-30A, MW-31, MW-32B, MW-33, MW-34B, MW-35C, MW-36, MW-39, and MW-41) and three extraction wells (MW-29, EW-01, and EW-02) screened in Unit B (Target Zone) were sampled for VOCs and 1,4-dioxane in February 2019. Water quality hydrographs depicting the concentrations of 1,1-DCE, TCE, and 1,4-dioxane in groundwater samples collected through February 2019 have been prepared (Appendix C). Comparison of the historical concentrations of these compounds in on-Site wells generally indicates stable or declining concentration trends at many wells and seasonal variability. Off-site monitor wells have a shorter monitoring history than on-Site monitor wells. In general, off-site monitor wells MW-34B and MW-41 have exhibited relatively large seasonal variations in VOC and 1,4-dioxane concentrations. Both of these wells are located near the northern saturated extent of the Unit B and concentration variability at these wells may be attributed, in part, to changes in hydraulic gradients related to seasonal groundwater production in the vicinity. In addition, the relative concentrations of 1,4-dioxane as compared to 1,1-DCE in groundwater samples collected from monitor wells along Malvern Avenue tend to be lower than on-Site monitor wells and monitor well MW-34B. TCE was also detected in monitor wells along Malvern Avenue, but at generally lower concentrations than 1,1-DCE.

- Three monitor wells, MW-08, MW-30B, and MW-34C, and one extraction well, MW-21, screened in Unit BC were sampled for VOCs and 1,4-dioxane in February 2019. 1,1-DCE was detected in extraction well MW-21 and monitor wells MW-30B and MW-08 (Table 4). TCE was also detected in monitor wells MW-30B and MW-08 and extraction well MW-21 in February 2019. 1,4-Dioxane was detected in the sample collected from monitor wells MW-08 and MW-30B and extraction well MW-21. The concentrations of 1,1-DCE

and 1,4-dioxane at extraction well MW-21 had declined during the operation of the initial pilot GETS program, June 2008 through 2009, and have been more variable since the conclusion of that initial phase of pilot testing when extraction well MW-21 was routinely operated (Table 4).

- All three monitor wells screened in Unit C, MW-09, MW-24, and MW-32C, were sampled for VOCs and 1,4-dioxane in February 2019. VOCs and 1,4-dioxane were not detected in groundwater samples collected from any Unit C monitor wells (Table 4).

- Three of four monitor wells screened in Unit D, MW-06, MW-20, and MW-37, were sampled for VOCs and 1,4-dioxane in February 2019. 1,1-DCE was not detected in the groundwater samples collected from monitor wells MW-06 and MW-37 in February 2019. 1,1-DCE was detected in the groundwater sample collected from monitor well MW-20 in February 2019. 1,4-Dioxane was not detected in the groundwater samples collected from Unit D in February 2019 (Table 4).

VOC and 1,4-dioxane concentrations will continue to be monitored to evaluate vertical and lateral distribution and to assess trends within and across the Site hydrostratigraphic zones.

2.3.2.4 Groundwater Quality at City of Fullerton Airport Well 9

The City of Fullerton operates a municipal water supply well, designated F-AIRP, which is located on the north side of Fullerton Municipal Airport (Figure 22). F-AIRP is located approximately 4,000 feet to the southwest of the southwest boundary of the Site and approximately 1,500 feet to the southwest of monitor well MW-33. Based on water quality results received from the Orange County Water District, 1,1-DCE was detected for the first time in August 2002 at a concentration of 0.6 ug/l. Since 2002, 1,1-DCE has periodically been detected in F-AIRP with a maximum concentration of 2.1 ug/l in November 2008. All detections of 1,1-DCE in production well F-AIRP have been below the California maximum contaminant level (MCL) of 1,1-DCE in drinking water of 6 ug/l (Figure 23). TCE and 1,4-dioxane have not been detected in F-AIRP.

In 2016, the Packer Testing Program was initiated in coordination with the City of Fullerton in order to evaluate where sealing off the lower well screens in F-AIRP with an inflatable packer would reduce the concentrations of 1,1-DCE in the well discharge without significantly reducing the well capacity or causing a significant degradation of the inorganic water quality (H+A, 2016). The results of Packer Testing Program determined that isolating the two bottommost screens in F-AIRP effectively decreases the concentration of 1,1-DCE in F-AIRP to less than the detection limit (H+A, 2017a). On March 15, 2018, a packer was inflated above the two bottommost screens and has remained inflated through February 2019. Since the packer was inflated in March 2018, 1,1-DCE has not been detected in the production well F-AIRP discharge (Figure 23).

2.3.3 Quality Assurance/Quality Control

QA/QC samples, including field duplicates, laboratory split samples, equipment rinsate blanks and trip blanks, were collected and analyzed for VOCs during the February 2019 monitoring event (Appendix A). The relative percent difference was calculated between the results of each field duplicate and each laboratory split sample with its corresponding original sample. Data quality assessment results for the May, August, and November 2018 groundwater monitoring events were previously reported in their respective groundwater monitoring data submittals (H+A, 2018c, 2018d, and 2019). The data quality assessment for the February 2019 monitoring event indicates that all QA/QC results for groundwater samples are within acceptable criteria.

Methylene chloride was detected in two trip blanks TB-021919 and TB-022019 analyzed with groundwater samples collected during the February groundwater monitoring event at concentrations of 0.72J ug/l and 0.63J ug/l, respectively. Methylene chloride is a common analyte detected in trip blanks when analyzing for VOCs because methylene chloride is an organic solvent commonly used in a laboratory. Methylene chloride was not detected in associated groundwater samples, therefore, no data was qualified due to these detections in the trip blanks. Chloromethane was detected in the equipment rinsate blank RB-022019 at a concentration of 0.30J ug/l. The associated samples collected from monitor wells MW-06 and MW-20 with detections of chloromethane at 0.29J ug/l and 0.26 ug/l, respectively, were qualified as unusable. There were no other detections of VOCs or 1,4-dioxane in QA/QC trip blanks or equipment rinsate blanks (Table 4; Appendix A).

In addition, QA/QC trip blanks were collected as part of the monthly and quarterly GETS sampling events in accordance with the GETS monitoring sampling schedule (Table 6). There were no detections of analytes sampled for the GETS quarterly and monthly monitoring in the trip or method blanks.

3.0 GROUNDWATER EXTRACTION AND TREATMENT PILOT STUDY

This section summarizes the pilot GETS operation primarily within the three-month period of monitoring conducted during the first quarter of 2019. Summaries of the pilot GETS operations during the second, third, and fourth quarters of 2018 were previously submitted as quarterly data submittals (H+A, 2018c, 2018d, and 2019). The pilot GETS consists of four groundwater extraction wells, the treatment system, and the disposal system; however, the current phase of pilot testing is operating using only two extraction wells, EW-02 and MW-29. Current extraction rates are nominally 40 gallons per minute (gpm) from extraction well EW-02 and 10 gpm from extraction well MW-29. The treatment system processes extracted groundwater through an advanced oxidation unit that utilizes ultra-violet (UV) light and hydrogen peroxide chemical oxidation (UV-Ox), followed by a granular activated carbon polish prior to disposal to the sanitary sewer.

3.1 SYSTEM OPERATION

Initial startup of the pilot GETS took place in July 2008. From July 2008 through November 2009, the pilot GETS was operated with extraction wells EW-01 and MW-21 operating at approximately 10 gpm each (Figure 24). Pilot GETS expansion took place between November 2009 and March 2010 in order to incorporate extraction well EW-02 into the extraction well network. The system maximum flowrate was also increased from 20 gpm to 50 gpm, which is the capacity of the on-Site sewer. Beginning in March 2010, the pilot GETS was operated at 50 gpm, entirely from extraction well EW-02. During December 2011, a synthetic media pilot test was started. The purpose of the synthetic media pilot test was to evaluate the efficacy of treating high-concentration water collected from extraction well MW-21 (a relatively high-concentration extraction well) using a synthetic media for contaminant removal (H+A, 2012c). In order to conduct the synthetic media pilot test, extraction wells EW-02 and MW-21 were operated at approximately 40 gpm and 10 gpm, respectively. The synthetic media pilot test was completed in March 2012, and operation of the pilot GETS was restored to 50 gpm entirely from extraction well EW-02. A second phase of pilot GETS expansion took place between March 2014 and August 2014 in order to incorporate extraction well MW-29 into the extraction well network as well as replacing an advanced oxidation unit that used ozone and hydrogen peroxide with a UV-Ox system. Extraction wells EW-01 and

MW-21 are on standby for the current phase of pilot testing, but may be used for future phases of pilot testing or as part of a full scale pump-and-treat system.

During the first quarter 2019, the pilot GETS was operational approximately 73 percent of the available runtime and approximately 3.9 million gallons of groundwater were treated and discharged to the sanitary sewer (Table 7). Downtime during the first quarter 2019 was associated with maintenance activities and alarm testing. The average monthly discharge flowrate to the sanitary sewer between December 1, 2018, and March 1, 2019 was approximately 41 gpm. Since startup of the pilot GETS, approximately 173 million gallons of groundwater have been treated at an average flowrate of 41 gpm through February 2019 (Table 7).

3.2 WATER QUALITY PERFORMANCE MONITORING

Current monthly and quarterly pilot GETS monitoring activities include collecting samples from extraction wells EW-02 and MW-29, and at treatment system sampling ports: Influent, Post Particulate Filter, Post UV-Ox, Carbon Breakthrough, and Carbon Effluent (Tables 6 and 8; Figure 25). Samples collected during these activities were sent to ATL for analysis. Analytical results of the extraction well and treatment system sampling have been summarized (Table 8; Appendix A).

The UV-Ox advanced oxidation treatment unit is designed to remove 1,4-dioxane and most VOCs in groundwater. The carbon adsorption units provide a polish following the UV-Ox treatment and remove possible low-level VOCs remaining in groundwater post UV-Ox (principally low-level ethanes). The UV-Ox advanced oxidation and carbon adsorption treatment units effectively removed VOCs and 1,4-dioxane from extracted groundwater in the first quarter 2019. The samples collected during the first quarter 2019 from the effluent of the UV-Ox treatment unit (Post UV-Ox or POX), Carbon Breakthrough and Carbon Effluent were analyzed for VOCs and 1,4-dioxane. VOCs were not detected in these samples. 1,4-Dioxane was not detected at a laboratory reporting limit of 0.2 ug/l in any of the POX, Carbon Breakthrough or Carbon Effluent samples collected during the first quarter 2019.

The previous oxidation treatment unit that used an ozone-peroxide technology was shown to create bromate as a treatment byproduct which occasionally exceeded the drinking water MCL, or would not reduce 1,4-dioxane to below the treatment goal (Figure 26). The levels of bromate

previously generated as a treatment byproduct were not an issue while discharging to the sewer, but would preclude injection of treated groundwater back into the aquifer as part of future groundwater corrective measures. The current UV-Ox advanced oxidation treatment unit has not generated bromate above the MCL, and bromate was not detected in the Post UV-Ox samples collected during the first quarter 2019, while maintaining the treatment goal for 1,4-dioxane.

The pilot GETS continues to remove VOCs and 1,4-dioxane from extracted groundwater. During the first quarter of 2019, the pilot GETS removed approximately 1.4 pounds of VOCs and 0.8 pounds of 1,4-dioxane from extracted groundwater. Since startup of the pilot GETS in July 2008, approximately 168 pounds of VOCs and 39 pounds of 1,4-dioxane have been removed from groundwater through February 2019 (Figure 27). Operation of the pilot GETS continues to be optimized to maximize the treatment of 1,4-dioxane and VOCs in extracted groundwater.

3.3 WATER LEVEL PERFORMANCE MONITORING

The capture zone from extraction of groundwater at extraction well EW-02 during operation of the pilot GETS can be evaluated based on hydraulic properties of Unit B and from water level contours.

The width of the capture zone can be estimated based on the average extraction rate at extraction well EW-02 and an estimate of the rate of groundwater flow through a portion of Unit B as previously described in the technical memorandum regarding hydraulic testing and preliminary capture zone analysis for extraction well EW-02 (H+A, 2010b). One of the hydraulic parameters used to estimate rate of flow through Unit B is transmissivity, which generally does not change in the vicinity of extraction well EW-02. The average pumping rate and/or the hydraulic gradients do, however, vary. As a result, there will be some variation in estimated capture width as the variables change. To assess this, average extraction rates and hydraulic gradients are calculated on a quarterly basis for the following time periods: March to May 2018; June to August 2018; September to November 2018; and December 2018 to February 2019. The following table summarizes the estimated width of the capture zone generated by operation of extraction well EW-02 during this time frame:

Time Period	Average Pumping Rate (gpm)	Hydraulic gradient [(a)]	Range in Transmissivity (square feet per day) (H+A, 2010b)	Range in Capture Width (feet)
March to May 2018	35	0.0037	2,400 – 5,400	340 – 766
June to August 2018	34	0.0035	2,400 – 5,400	355 – 799
September to November 2018	35	0.0035	2,400 – 5,400	345 – 776
December 2018 to February 2019	33	0.0024	2,400 – 5,400	654 – 1,471

(a) Based on water levels measured at monitor well MW-28 and extraction well EW-01 at end of time period.

The above calculation provides a rough estimate of the width of the EW-02 capture zone. From a simplistic estimate, approximately one half of the width would be north of extraction well EW-02 and the balance to the south of extraction well EW-02. Given the complexity of Unit B and the variable hydraulic gradient and extraction rate, this is meant to provide a rough approximation of the capture zone. Capture zone can also be evaluated using the quarterly water level contour maps (Figures 13A to 13D). The width of the capture zone in May 2018, August 2018, November 2018, and February 2019 varies with seasonal changes in hydraulic gradient and flow direction. In general, operation of Unit B extraction well EW-02 at an average flowrate of approximately 40 gpm develops a capture zone along a portion of the western Site boundary; however, it does not appear to capture groundwater in Unit B along the southwestern-most portion of the Site, in the vicinity of monitor well MW-31. The pilot GETS was expanded between March 2014 and August 2014 to replace the advanced oxidation system treatment equipment and convert monitor well MW-29 into an extraction well. Operation of extraction well MW-29 enhances hydraulic capture in the Unit B along the western property boundary to the northwest of extraction well EW-02.

The current pilot GETS extraction rate of approximately 50 gpm from the extraction wellfield is not the maximum extraction rate the wells will sustain, but rather, is limited to the treatment capacity of the local sewer connection and the current maximum allowable flowrate for discharge of treated groundwater to the sewer pursuant to the Orange County Sanitation District sewer discharge permit. Therefore, the observed capture zone under pilot GETS operation is somewhat arbitrary in that it is not prescribed with a particular performance goal to be measured against, but can be useful for observing the effects of changing seasonal groundwater flow directions and gradients.

4.0 DISCUSSION

Perched zone water levels have remained relatively stable over the past several years (Figure 14). Water quality data obtained from the perched zone indicate that the perched zone remediation system that operated from about late 1998 to 2000 was effective at reducing concentrations of VOCs, particularly 1,1-DCE, in perched zone water (H+A, 2000). VOC concentrations in the perched zone have gradually declined or have been relatively low and stable. 1,4-Dioxane concentrations remain relatively stable in perched zone water (Table 4).

Regional groundwater system water level data obtained in February 2019 indicate a continuation of typical seasonal variations superimposed on long-term trends. The water level declines observed between mid-2006 and December 2008 represent the most rapid overall decline observed during the period of monitoring, with water levels decreasing from historical highs to historical lows in all Site regional groundwater system monitor and extraction wells, by as much as 70 feet in wells completed in Unit B (Figures 3 through 8). Water level elevations in Site monitor wells then exhibited a low in October 2014, and increased to near or at new historical highs in January 2018. Currently water levels are at a near historical high.

The following conclusions have been formulated regarding the regional groundwater system based on previous investigations and recent monitoring conducted at the Site. The operations formerly conducted at the Site have impacted two areas of the regional groundwater system.

The first area starts where the perched zone merges with the regional groundwater system near monitor well MW-16 (Figures 2 and 9) and appears to extend to the west/southwest in Unit B. The compounds of potential concern (COPCs) are limited to VOCs, principally 1,1-DCE and 1,4-dioxane.

- The following provides a general discussion of water quality near the location of where the perched zone merges with the regional groundwater system.
    - Historically, the regional groundwater level at monitor well MW-16 has been and continues to be lower than the water level at the toe of the perched zone in

piezometer P-07, except for a brief period of historical high water levels in Site monitor wells in 2006 (Figures 5, 9, and 14).

- VOC concentrations at monitor well MW-16 have been variable, and in February 2019, concentrations remained within the historical ranges for this well (Tables 4 and 5).
- VOC concentrations at extraction well EW-01, adjacent to and screened over a greater interval than monitor well MW-16, are variable, with the initial samples collected in June and September 2005 exhibiting similar concentrations of VOCs as detected in monitor well MW-16. Concentrations of 1,1-DCE in extraction well EW-01 were lower than those detected in monitor well MW-16 from December 2005 through September 2007. In December 2007, concentrations of all VOCs detected in extraction well EW-01 were equal to or higher than those detected in monitor well MW-16. The concentrations of 1,1-DCE and 1,4-dioxane detected in groundwater samples collected from extraction well EW-01 declined after the startup of the pilot GETS in June 2008, and have been variable since extraction well EW-01 was taken off-line from the pilot GETS and put on stand-by in November 2009.
- VOC concentrations at extraction well MW-21, which is located adjacent to and screened deeper than monitor well MW-16 and extraction well EW-01, are higher than surrounding wells. This may be a result of the greater effectiveness of the former perched zone remediation system near the water table, or it may represent remnant VOCs at depth in this slightly less transmissive or more isolated hydrostratigraphic zone. During the initial phase of the pilot GETS operations, from July 2008 through 2009, the concentration of 1,1-DCE declined in extraction well MW-21 from its historical high of 4,900 ug/l in June 2008 to its historical low of 200 ug/l in December 2009 (Table 4). The concentration of 1,4-dioxane also declined in extraction well MW-21 during the initial phase of the pilot GETS from 370 ug/l in June of 2008 to its historical low of 11 ug/l in December 2009 (Table 4). Since the conclusion of the pilot GETS operations at extraction well MW-21, concentrations of VOCs and 1,4-dioxane have been variable in this well. In February 2019, 1,1-DCE and 1,4-dioxane were detected at concentrations of 840 ug/l and 670 ug/l, respectively, within historical ranges.

- 1,4-Dioxane was detected near the detection limit in two groundwater samples collected from monitor well MW-24, in March 2007 and December 2010. 1,4-Dioxane was not detected in the sample collected in February 2019. COPCs have not been otherwise detected in groundwater samples collected from this well. The March 2007 and December 2010 detections are considered anomalous. The general lack of COPC detections in monitor well MW-24, which is located adjacent to and screened approximately 100 feet deeper than extraction well MW-21, demonstrates that the vertical extent of COPCs in groundwater at the vicinity of these wells is defined.

- The following provides a general discussion of water quality within Unit B downgradient of the location where the perched zone merges with the regional groundwater system.
  - In December 2007, the detections of VOCs and 1,4-dioxane at monitor well MW-26C represented the first confirmed historical detections of COPCs in this Unit B well (H+A, 2008a) (Figure 9). Concentrations of 1,1-DCE and 1,4-dioxane in groundwater samples collected from monitor well MW-26C exhibited a generally declining trend during monthly and quarterly monitoring events following the initial detections at this monitor well in 2007, and returned to non-detect levels by 2010. The rapid change in water level elevations in this well from historically high water level elevations in mid-2006 to historically low water level elevations observed in this well since December 2007, and the accompanying historically high concentrations of VOCs and 1,4-dioxane detected in groundwater samples collected from this well in December 2007, suggest that Unit B is the primary transport zone.
  - After COPCs were initially detected in monitor well MW-26C in December 2007, additional work was conducted to further characterize the hydrogeology and water quality of the Unit B.
    - Monitor wells MW-27, MW-28, MW-29, MW-30A, and MW-30B were installed in 2008 to delineate the distribution of COPCs in groundwater and confirm groundwater flow direction within the Unit B in the southwestern portion of the Site.
    - Monitor wells MW-31 and the MW-32A/B/C nest, and extraction well EW-02 were installed in 2009 to delineate the distribution of 1,1-DCE, TCE, and 1,4-dioxane in Unit B on the southern portion of the Site and to

the southwest of the Site, and to increase groundwater capture and accomplish greater remediation of groundwater within the primary transport zone (H+A, 2008b, 2009b, 2009c, and 2010d).

- In July 2010, monitor well MW-33 was installed to delineate the distribution of 1,1-DCE and 1,4-dioxane southwest of the Site (H+A, 2010d).
- In December 2010 through February 2011, the monitor well MW-34A/B/C cluster and monitor well MW-35A/B/C nest were installed to delineate the distribution of 1,1-DCE and 1,4-dioxane to the west and south of the Site, respectively (H+A, 2011b).
- In December 2011 through October 2012, additional monitor wells MW-36 and MW-37 were installed to further delineate the distribution of 1,1-DCE and 1,4-dioxane to the west of the Site (H+A, 2011c, 2012a, and 2012b).
- In June and July 2013, additional monitor wells MW-39 and MW-40 were installed to further delineate the distribution of 1,1-DCE and 1,4-dioxane to the west of the Site and near the upgradient portion of the Site, respectively; and monitor well MW-38 was installed west of the Site to help correlate hydrostratigraphic units and evaluate geologic structure in the area (H+A, 2013a and 2013e).
- In August 2014, monitor well MW-41 was installed to further delineate the distribution of 1,1-DCE and 1,4-dioxane in the Unit B to the west of the Site (H+A, 2014).

1,1-DCE and/or 1,4-dioxane have been detected in groundwater samples collected from Unit B monitor wells MW-28, MW-29, MW-30A, MW-31, MW-32B, MW-33, MW-34B, MW-36, and MW-41 and extraction well EW-02 since their construction (Table 4) (H+A, 2015b). 1,1-DCE and 1,4-dioxane have historically not been detected in Unit B monitor wells MW-27, MW-35C, MW-39, and MW-40, defining the edge of groundwater impacts in these areas within the primary transport zone.

Results from groundwater assessment and groundwater treatment pilot testing outlined in respective work plans have been summarized in the following reports:

- Work proposed in Addendum No. 2A of the AGAWP and Addendum No. 4A of the Groundwater Extraction and Treatment System Pilot Testing Corrective Measures Study Work Plan was completed and was summarized in the Well Construction and Groundwater Sampling Report Additional Groundwater Assessment Primary Transport Zone and Groundwater Extraction Treatment System Pilot Testing (H+A, 2009b, 2009c, and 2010d).
- The work outlined in Addendum No. 3 of the AGAWP was completed and was summarized in the Well Construction and Groundwater Sampling Report Additional Groundwater Assessment Primary Transport Zone and Groundwater Extraction Treatment System Pilot Testing (H+A, 2010c and 2011b).
- The work outlined in Addendum No. 4 of the AGAWP was completed and was summarized in the Well Construction and Groundwater Sampling Report Additional Groundwater Assessment Primary Transport Zone and Groundwater Extraction Treatment System Pilot Testing (H+A, 2011c and 2013c).
- The work outlined in Addendum No. 5 of the AGAWP was completed and was summarized in the Well Construction and Groundwater Sampling Report Additional Groundwater Assessment Primary Transport Zone and Groundwater Extraction Treatment System Pilot Testing (H+A, 2013a and 2013d).
- The work outlined in Addendum No. 6 of the AGAWP was completed and was summarized in the Well Construction and Groundwater Sampling Report Additional Groundwater Assessment Primary Transport Zone and Groundwater Extraction Treatment System Pilot Testing (H+A, 2013e and 2014).

The second area of impact is located away from the perched zone and exhibits sporadic detections of TCE, 1,1-DCE, and TCFM in the vicinity of monitor well MW-15; and 1,1-DCE,

benzene, TCE, cis-1,2-DCE, and low concentrations of other VOCs and 1,4-dioxane at monitor well MW-08. Samples collected from monitor well MW-30B, installed in November 2008, exhibit similar proportions of TCE, 1,1-DCE, and cis-1,2-DCE as samples collected from monitor well MW-08, also screened in Unit BC (Figures 18 and 28).

- The following provides a general discussion of water quality near monitor wells MW-15 and MW-08.
    - Historically, VOC concentrations have generally remained near or below MCLs at monitor well MW-15. 1,1-DCE was not detected in the groundwater sample collected from monitor well MW-15 in February 2019 (Table 4).
    - Concentrations of VOCs detected in monitor well MW-08 prior to March 2004 were generally near or below the drinking water MCLs for the respective compounds (H+A, 2004c). More recently, concentrations of 1,1-DCE, cis-1,2-DCE and TCE detected in samples collected from monitor well MW-08 have exceeded their respective MCLs (Table 4). In June 2006, the detected concentrations of 1,1-DCE, 1,1-DCA, PCE, and 1,4-dioxane in groundwater samples collected from monitor well MW-08 represented historical high concentrations for this well (Figure 28). In February 2019, the VOCs 1,1-DCE, cis-1,2-DCE, and TCE were detected at concentrations within their respective historical ranges at monitor well MW-08. The concentrations of 1,1-DCE and TCE remain at or above California and/or federal MCLs.
- The following provides a general discussion of water quality downgradient of monitor well MW-08.
    - The VOCs detected at monitor well MW-30B, with a composition of TCE, 1,1-DCE, and cis-1,2-DCE, are similar to the composition and concentrations of VOCs detected at monitor well MW-08. In February 2019, the VOCs TCE, 1,1-DCE, and cis-1,2-DCE were detected in groundwater samples collected from monitor well MW-30B at concentrations of 82 ug/l, 18 ug/l, and 4.5 ug/l, respectively. 1,4-Dioxane was detected in the groundwater sample collected from monitor well MW-30B at a concentration of 0.60 ug/l in February 2019. Both monitor wells MW-08 and MW-30B are screened in Unit BC near the western portion of the Site. Monitor wells MW-08 and MW-30B are both completed hydrostratigraphically beneath Unit B; however, monitor well MW-30B is completed closer to Unit B.

Based on vertical hydraulic gradients observed from water levels measured in the monitor wells completed below Unit B and those monitor wells completed within Unit B, it is expected that the compounds detected in groundwater collected from monitor well MW-30B will migrate stratigraphically upward and merge into Unit B groundwater in areas further downgradient. TCE has been detected in groundwater collected from Unit B monitor wells MW-31, MW-32B, and MW-33 near Malvern Avenue, which suggests that groundwater from the deeper zone is merging with that of Unit B.

5.0 STATUS OF CORRECTIVE MEASURE STUDY ACTIVITIES

Periodic groundwater monitoring, groundwater extraction and treatment pilot testing, and additional groundwater assessment were conducted to support a CMS for the Site under continuing direction from the DTSC. As part of the CMS, multiple addenda of the AGAWP have been implemented at the Site. Monitor wells have been installed to more fully delineate the distribution of VOCs, principally 1,1-DCE and 1,4-dioxane, in the Target Zone (H+A, 2003b, 2008b, 2010c, 2011c, 2013a, 2013e, and 2014). Results of the additional groundwater assessments completed through 2014 indicate that groundwater assessment was sufficiently complete for the purposes of completing the CMS. Ongoing groundwater treatment pilot testing indicates the current Advanced Oxidation Process being implemented is capable of meeting expected future treatment goals; and hydraulic containment of groundwater at the Site is feasible.

A technical memorandum summarizing the current conceptual site model and development of a numerical groundwater flow model for the Site was submitted to the DTSC in February 2015 (H+A, 2015a). A CMS Report was prepared to evaluate potential full-scale Groundwater Corrective Measures alternatives and to propose a preferred alternative for the Site; the CMS Report was submitted to the DTSC in June 2015 (H+A, 2015c). The DTSC reviewed the technical memorandum regarding the conceptual site model/numerical model and the CMS Report and provided comments on these documents (DTSC, 2015a, 2015b, and 2015c). Responses to DTSC comments on these documents were prepared and submitted to DTSC in November 2015 (H+A, 2015d). The DTSC approved the CMS Report in a letter to Raytheon dated December 9, 2015 (DTSC, 2015d). DTSC's 2015 approval of the CMS Report did not necessarily reflect an endorsement of the proposed remedy, but rather that the CMS Report provided the necessary information for DTSC to select a remedy. A draft California Environmental Quality Act (CEQA) Initial Study was conducted in 2017 which concluded with a Negative Declaration for the proposed groundwater cleanup project. DTSC also prepared a draft Statement of Basis in 2017 with concurred with the remedy proposed in the CMS. A public participation process was conducted in 2017 which included mass mailings and newspaper publication regarding the project, a public review period and a public Open House meeting. DTSC responded to public comments, finalized the CEQA Initial Study and Statement of Basis, and provided final approval

of the CMS report and recommended remedy in 2018. A Corrective Measures Implementation Work Plan was prepared and submitted to DTSC in 2018 which is currently in DTSC review (H+A, 2018a). Two additional Unit B monitor wells which were proposed in the CMS are currently being installed. In addition, initial engineering design and coordination of property access for the planned implementation of the selected groundwater corrective measures is in progress.

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TABLE 1
GROUNDWATER MONITORING PROGRAM

WELL IDENTIFIER	HYDROGEOLOGIC ZONE	SAMPLED FEB 2019	SAMPLING FREQUENCY			
			QUARTERLY FEB, MAY, AUG, NOV	SEMIANNUAL FEBRUARY, AUGUST	ANNUAL FEBRUARY	BIENNIAL FEB (EVEN YEARS)
P-07	Perched	X			VOCs; 1,4-Dioxane	
P-09	Perched	X			VOCs; 1,4-Dioxane	
MW-35A	Other					VOCs; 1,4-Dioxane
MW-17	A		PIEZOMETER - WATER LEVEL MEASUREMENT ONLY			
MW-18	A	X		VOCs; 1,4-Dioxane		
MW-19	A					VOCs
MW-22	A					VOCs; 1,4-Dioxane
MW-23	A					VOCs
MW-34A	A	X		VOCs; 1,4-Dioxane		
MW-35B	A					VOCs; 1,4-Dioxane
MW-38	A				VOCs; 1,4-Dioxane	
MW-13	AB	X			VOCs; 1,4-Dioxane	
MW-15	AB	X		VOCs		
MW-26A	AB		PIEZOMETER - WATER LEVEL MEASUREMENT ONLY			
MW-26B	AB		PIEZOMETER - WATER LEVEL MEASUREMENT ONLY			
MW-32A	AB	X		VOCs; 1,4-Dioxane		
EW-01	B	X	VOCs; 1,4-Dioxane			
EW-02*	B	X	VOCs; 1,4-Dioxane			
MW-16	B	X		VOCs; 1,4-Dioxane		
MW-26C	B	X	VOCs; 1,4-Dioxane			
MW-27	B	X			VOCs; 1,4-Dioxane	
MW-28	B	X	VOCs; 1,4-Dioxane			
MW-29*	B	X	VOCs; 1,4-Dioxane			
MW-30A	B	X	VOCs; 1,4-Dioxane			
MW-31	B	X	VOCs; 1,4-Dioxane			
MW-32B	B	X	VOCs; 1,4-Dioxane			
MW-33	B	X	VOCs; 1,4-Dioxane			
MW-34B	B	X	VOCs; 1,4-Dioxane			
MW-35C	B	X	VOCs; 1,4-Dioxane			
MW-36	B	X	VOCs; 1,4-Dioxane			
MW-39	B	X	VOCs; 1,4-Dioxane			
MW-40	B		VOCs; 1,4-Dioxane			
MW-41	B	X	VOCs; 1,4-Dioxane			
MW-21	BC	X	VOCs; 1,4-Dioxane			
MW-08	BC	X	VOCs; 1,4-Dioxane			
MW-30B	BC	X	VOCs; 1,4-Dioxane			
MW-34C	BC	X		VOCs; 1,4-Dioxane		
MW-09	C	X		VOCs; 1,4-Dioxane		
MW-24	C	X			VOCs; 1,4-Dioxane	
MW-32C	C	X		VOCs; 1,4-Dioxane		
MW-06	D	X			VOCs	
MW-20	D	X		VOCs; 1,4-Dioxane		
MW-25	D		WATER LEVEL MEASUREMENT ONLY			
MW-37	D	X			VOCs; 1,4-Dioxane	

FOOTNOTES

Groundwater Monitoring Program 2014/2015 Letter (Hargis + Associates, Inc., 2015)

* = Extraction well monitored monthly as part of the Groundwater Extraction and Treatment System Pilot Testing

VOCs = volatile organic compounds

TABLE 2

WELL CONSTRUCTION SUMMARY

Well Identifier	Date Installed	Current Land Surface Elevation (feet msl)	Current Reference Point Elevation (feet msl)	Total Depth of Borehole (feet bls)	Perforated Interval (feet bls)	Screen Slot Size (inches)	Borehole Diameter (inches)	Casing Diameter (inches)(a)	Filter Pack Interval (feet bls)	Filter Pack Sand Size	Grout Filter/ Intermediate Seal Interval (feet bls)(b)	Annular Seal Interval (feet bls)(c)
Regional Groundwater System Monitor Wells, Extraction Wells and Piezometers												
MW-06	1/16/1997	184.96	184.70	190.9	149.6-189.6	0.010	8.5	2	145.4-190.9	#2/16	139.4-145.4(d)	0-139.4
MW-08	1/22/1997	156.60	155.91	167.2	126.1-166.1	0.010	8.5	2	120.7-167.2	#2/16	115.7-120.7	0-115.7
MW-09	3/21/1997	180.48	180.10	194.2	152.2-192.2	0.010	8.5	2	146.2-194.2	#2/16	141.2-146.2	0-141.2
MW-13	4/16/1997	142.44	141.84	159.5	120.6-159.6	0.010	8.5	2	114.6-159.6	#2/16	109.6-114.6	0-109.6
MW-15	5/18/1998	145.54	144.95	174.7	120.8-170.8	0.010	8.5	2	115.8-174.8	#2/16	112.8-115.8	0-112.8
MW-16	11/20/1999	142.98	142.40	179.5	148.5-178.5	0.010	11.0	4	144.5-179.5	#2/16	134.5-144.5(e)	0-134.5
MW-17	5/31/2000	142.70	142.70	203.6	173.1-193.1(i)	0.020	10.0	4	159.7-193.1	#2/16	156.2-159.7 193.1-203.7(j)	0-156.2
MW-18	5/24/2000	142.39	142.32	195.6	164.1-194.1	0.020	10.0	4	158.9-194.5	#2/16	154.2-158.9	0-154.2
MW-19	5/26/2000	142.72	142.06	205.5	184.9-204.9	0.020	10.0	4	177.0-205.3	#2/16	171.5-177.0	0-171.5
MW-20	6/26/2003	184.36	184.19	200.0	158.6-198.2	0.020	11.0	4(f)	158.0-200.0	#2/12	151.0-158.0(g)	0-151.1(h)
MW-21	7/17/2003	143.34	141.18	238.3	212.1-232.1	0.010	8.0	4(k)	205.0-234.5	#2/16	202.0-205.0 234.5-238(j)	0-202.0(h)
MW-22	8/13/2003	139.39	138.65	245.0	217.4-237.4	0.020	8.0	4(l)	215.0-238.0	#2/12	208.0-215.0(m)	0-208.0(h)
MW-23	8/18/2003	137.75	137.33	235.6	215.2-235.2	0.020	8.0	4(n)	209.4-235.6	#2/12	203.5-209.4(m)	0-203.5(h)
MW-24	9/15/2004	143.05	142.83	338.0	310.3-330.3	0.030	10.6	4(o)	306-330	#3	301-306(p)	0-301(h)
MW-25	9/10/2004	142.97	142.64	805	449.4-479.8	0.010	8.5(q)	2(r)	429-485	#2/16	418-429	0-418(h)
MW-26A(s)	10/1/2004	137.64	137.04	805	279-309	0.020	12.25(q)	2(t)	274-315	#2/12	266-274	0-266(h)
MW-26B(s)	10/1/2004	137.64	137.05	805	339-379	0.020	12.25(q)	2(u)	334-387	#2/12	266-274	0-266(h)
MW-26C(s)	10/1/2004	137.64	137.22	805	459-499	0.020	12.25(q)	2(v)	435-499	#2/12	387-435(w)	0-266(h)
MW-27	4/22/2008	137.60	137.16	550	475-505.2(cc)	0.030	11.25(q)	4(z)	468-520	#3	457.5-468	0-457.5(h)
MW-28	5/5/2008	141.38	140.77	425	335-375	0.040	12.25(q)	4(z)	325.4-377	#8	318-325.4	0-318(h)
MW-29	8/15/2008	148.83	139.81	265.7	200-240	0.020	10.0(aa)	4(z)	185-246	#2/12	176-185	0-176(h)
MW-30A(s)	11/26/2008	130.20	129.44	635(j)	524-564	0.020	14.25	3(y)	515.9-570.5	#2/12	495.5-515.9	0-495.5(bb)
MW-30B(s)	11/26/2008	130.20	129.39	635(j)	596-616	0.020	14.25	3(y)	586.8-625	#2/12	586.8-570.5	0-495.5(bb)
MW-31	10/2/2009	120.31	119.60	1,100(jj)	946-996	0.020	13	6(kk)	922-1,006	#2/12	904-922	0-904
MW-32A(s)	12/10/2009	93.35	92.88	1,153(gg)	890-905	0.020	18.5	4(dd)	880-910	#2/12	832-880	0-832
MW-32B(s)	12/10/2009	93.35	92.89	1,153(gg)	969-999	0.020	18.5	4(dd)	960-1,004.5	#2/12	910-960	0-832
MW-32C(s)	12/10/2009	93.35	92.88	1,153(gg)	1,070-1,090	0.020	18.5	4(dd)	1,054-1,100	#2/12	1,004.5-1,054	0-832
MW-33	7/2/2010	83.80	83.19	1,080(hh)	980-1,020	0.020	11	4(dd)	970-1,025	#2/12	924-970	0-924(ii)
MW-34A	2/3/2011	154.00	153.25	290	220-280	0.020	12.25	4(dd)	211-290	#2/12	175-211	0-175
MW-34B	2/1/2011	153.90	153.11	540	486-536	0.020	12.25	4(dd)	475-540	#2/12	449-475	0-449
MW-34C	1/19/2011	154.10	153.29	709(ll)	556-576	0.020	12.25	4(dd)	551-582	#2/12	530-551	0-530
MW-35A	12/20/2010	94.30	93.57	1,101	420-470	0.020	18	4(dd)	401-482	#2/12	376-401	0-376
MW-35B	12/20/2010	94.30	93.56	1,101	745-805	0.020	18	4(dd)	725-816	#2/12	482-725	0-376
MW-35C	12/20/2010	94.30	93.55	1,101(ll)	990-1,040	0.020	12.25	4(dd)	980-1,048	#2/12	816-980	0-376
MW-36	1/3/2012	87.19	86.65	1,030(mm)	934-954 974-994	0.020	12.25	4(dd)	914-1,003	#2/12	95-853(oo) 853-914(pp)	0-95(qq)
MW-37	10/17/2012	156.02	155.60	916	770-820	0.020	12.25	4(dd)	755-834	#2/12	229-724(rr) 724-755(pp)	0-229(ss)
MW-38	7/29/2013	155.70	154.90	203	150-200	0.020	10	4(z)	140-203	#2/12	120-140 (pp)	0-120(qq)
MW-39	7/25/2013	84.71	84.25	1,080(ll)	982-1,012	0.020	12.25	4(dd)	974-1,017	#2/12	156-917(rr) 917-974(pp)	0-156(qq)
MW-40	7/2/2013	124.09	123.40	1,040(ll)	930-970	0.030	12.25	6(dd)	916-975	#3	175-880(rr) 880-916(pp)	0-175(qq)
MW-41	8/22/2014	156.02	155.60	436.3(mm)	385-425	0.020	12.25	4(dd)	373.5-427	#2/16	165-357(rr) 357-373.5(pp)	0-165(qq)
EW-01	5/16/2005	143.30	141.07	195	138.1-188.1	0.020	7.6	4(x)	134.1-195	#2/12	129-134.1(m)	0-129(h)
EW-02	10/20/2009	136.04	132.97	473(ee)	410-460	0.030	17.0	8(ff)	400-465	#3	384-400	0-384
Perched Zone Piezometers												
P-07	6/6/1997	142.7	142.31	116.8	107.7-117.7	0.010	8.5	2	104.7-117.7	#2/16	101.7-104.7	0-101.7
P-09	6/30/2003	184.3	183.86	130.0	109.6-129.6	0.010	11.0	4	114.0-130.0	#2/16	101.0-108.0(g)	0-101.0(h)

NOTE: Refer to page 2 of this table for footnotes.

TABLE 2

WELL CONSTRUCTION SUMMARY

FOOTNOTES

msl = Mean sea level, City of Fullerton datum
bls = Below current land surface (October 2004)
(a) = Schedule 40 polyvinyl chloride (PVC) screen and casing, unless otherwise indicated
(b) = Medium bentonite chip seal, unless otherwise indicated
(c) = Bentonite grout annular seal unless otherwise indicated, completed at surface with vault set in concrete
(d) = No. 60 silica sand
(e) = Includes 2.0 feet of No. 60 silica sand placed above filter pack
(f) = Schedule 80 polyvinyl chloride screen and casing
(g) = Includes 2.5 to 3.0 feet of No. 60 silica sand placed above bentonite chip seal
(h) = Cement/bentonite grout, Type I/II Portland, less than 5% bentonite
(i) = Well plug, approximately 0.5-foot length, set at bottom of perforated interval
(j) = Bottom of borehole backfilled with bentonite chips
(k) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 122.0 - 212.1 feet bls; Schedule 40 mild steel casing 0 - 122.0 feet bls
(l) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 112.4 - 217.4 feet bls; Schedule 40 mild steel casing 0 - 112.4 feet bls
(m) = 1/4-inch coated bentonite pellets
(n) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 110.1 - 215.2 feet bls; Schedule 40 mild steel casing 0 - 110.1 feet bls
(o) = Mild steel wire wrap screen and Schedule 40 mild steel well casing
(p) = Includes 1 to 2 feet of #2/16 sand placed above bentonite chip seal
(q) = Below filter pack, diameter of the original pilot borehole is 5 to 6.25 inches to total depth of boring. Lower borehole backfilled with cement/bentonite grout, Type I/II Portland, less than 5% bentonite
(r) = Stainless steel wire wrap screen, Schedule 10 stainless steel casing 429.4 - 449.4 feet bls, Schedule 80 polyvinylchloride casing 429.0 - 429.4 feet bls, Schedule 40 mild steel casing 0 - 429.0 feet bls
(s) = Nested wells MW-26A, MW-26B, MW-26C, and MW-32A, MW-32B, MW-32C are constructed with three separate well casings in a single borehole; nested well MW-30A and MW-30B is constructed with two separate casings in a single borehole
(t) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 259 - 279 feet bls and 0 - 19 feet bls; Schedule 40 mild steel casing 19 - 259 feet bls
(u) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 319 - 339 feet bls; Schedule 40 mild steel casing 0 - 319 feet bls
(v) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 439 - 459 feet bls; Schedule 40 mild steel casing 0 - 439 feet bls
(w) = #8 granular bentonite with exception of heavy mud/formational caving filling annular interval from 417 to 428 feet bls
(x) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 118.1-138.1 feet bls; Schedule 40 mild steel casing 0-118.1 feet bls
(y) = Schedule 40 Stainless steel endcaps; Schedule 10 stainless steel casing; Stainless steel wire wrap screen
(z) = Schedule 80 PVC blank and screen casing
(aa) = Below filter pack, diameter of the original pilot borehole is 8 inches to total depth of boring. Lower borehole backfilled with cement/bentonite grout, Type I/II Portland, less than 5% bentonite
(bb) = Neat cement
(cc) = Depth of screen interval adjusted to account for loss at bottom of casing due to breakage in casing wall. Original casing (515 ft bls) was sealed at 505.2 ft bls
(dd) = Schedule 40 Stainless steel endcaps; Schedule 80 polyvinyl chloride casing; Stainless steel wire wrap screen
(ee) = Pilot borehole drilled to a total depth of 493 feet bls and backfilled with 5% bentonite-cement grout seal to 465 feet bls
(ff) = Schedule 40 Stainless steel endcaps; Schedule 40 stainless steel casing; Stainless steel wire wrap screen; 2.5-foot stainless steel sump
(gg) = Pilot borehole drilled to a total depth of 1,153 feet bls and backfilled with 5% bentonite-cement grout seal to 1,100 feet bls
(hh) = Pilot borehole drilled to a total depth of 1,080 feet bls and backfilled with 5% bentonite-cement grout seal to 1,025 feet bls
(ii) = Annular seal interval is composed of cement grout with approximately 5% bentonite from 720 to 924 feet bls and bentonite grout from near land surface to 720 feet bls
(jj) = Pilot borehole drilled to a total depth of 1,100 feet bls and backfilled with 5% bentonite-cement grout seal to 1,006 feet bls
(kk) = Schedule 40 Stainless steel endcaps; Schedule 40 stainless steel casing; Stainless steel wire wrap screen; 5-foot stainless steel sump
(ll) = Bottom of borehole backfilled with approximately 5% bentonite-cement grout
(mm) = Bottom of borehole backfilled with bentonite pellets
(oo) = High solids bentonite grout
(pp) = Bentonite chips
(qq) = Portland cement with approximately 5% bentonite
(rr) = Medium bentonite chips and #2/12 Sand; 1:1 dry volume mix
(ss) = Portland cement with approximately 2.5% bentonite

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells					
MW-06	01/27/97	174.27	144.62	29.65	
	02/18/97	174.27	142.26	32.01	
	02/26/97	174.27	141.97	32.30	
	03/06/97	174.27	141.52	32.75	
	03/12/97	174.27	141.24	33.03	
	03/28/97	174.27	140.90	33.37	
	05/19/97	174.27	142.85	31.42	
	10/16/97	174.27	158.05	16.22	
	05/13/98	174.27	143.00	31.27	
	05/27/98	174.27	143.49	30.78	
	06/11/98	174.27	144.43	29.84	
	07/14/98	174.27	147.46	26.81	
	11/11/98	174.27	155.60	18.67	
	11/18/98	174.27	154.82	19.45	SVE, DPE-H2O
	11/18/98	174.27	154.96	19.31	SVE, DPE-H2O
	11/19/98	174.27	154.82	19.45	SVE, DPE-H2O
	11/20/98	174.27	154.17	20.10	SVE, DPE, DPE-H2O
	11/23/98	174.27	154.43	19.84	SVE, DPE-H2O
	11/23/98	174.27	154.40	19.87	SVE, DPE-H2O
	11/24/98	174.27	154.44	19.83	SVE, DPE-H2O
	12/07/98	174.27	153.08	21.19	SVE, DPE-H2O
	12/10/98	174.27	152.56	21.71	SVE, DPE, DPE-H2O
	12/11/98	174.27	152.14	22.13	SVE, DPE, DPE-H2O
	12/14/98	174.27	151.82	22.45	SVE, DPE-H2O
	12/14/98	174.27	151.72	22.55	SVE, DPE-H2O
	12/16/98	174.27	151.73	22.54	SVE, DPE, DPE-H2O
	01/06/99	174.27	150.40	23.87	SVE, DPE, DPE-H2O
	01/20/99	174.27	149.92	24.35	
	01/25/99	174.27	149.58	24.69	DPE, DPE-H2O
	01/27/99	174.27	149.71	24.56	SVE, DPE, DPE-H2O
	02/01/99	174.27	149.37	24.90	DPE, DPE-H2O
	02/10/99	174.27	148.87	25.40	SVE, DPE, DPE-H2O
	02/23/99	174.27	148.30	25.97	
	03/01/99	174.27	148.33	25.94	DPE
	03/09/99	174.27	148.39	25.88	SVE, DPE, DPE-H2O
	03/10/99	174.27	148.35	25.92	SVE, DPE, DPE-H2O
	04/07/99	174.27	147.82	26.45	SVE, DPE-H2O
	04/23/99	174.27	147.00	27.27	SVE, DPE-H2O
	06/16/99	174.27	150.62	23.65	SVE, DPE-H2O
	06/25/99	174.27	151.91	22.36	SVE, DPE-H2O
	08/30/99	174.27	164.08	10.19	DPE-H2O
	09/27/99	174.27	166.78	7.49	
	11/02/99	174.27	169.28	4.99	
	12/06/99	174.27	158.87	15.40	
	02/07/00	174.27	164.21	10.06	
	03/08/00	174.27	160.82	13.45	
	05/08/01	174.23	155.05	19.18	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-06	06/26/01	174.23	161.99	12.24	
(Cont'd)	10/24/01	188.33	DRY	--	
	01/15/02	188.33	183.41	4.92	
	03/19/02	188.33	177.86	10.47	
	04/15/02	188.33	176.83	11.50	
	11/18/02	188.33	182.81	5.52	
	01/17/03	188.33	173.82	14.51	
	05/08/03	188.33	174.07	14.26	
	06/09/03	188.33	175.45	12.88	
	09/15/03	184.70	177.09	7.61	
	10/14/03	184.70	178.31	6.39	
	12/15/03	184.70	176.24	8.46	
	03/29/04	184.70	166.60	18.10	
	06/14/04	184.70	169.41	15.29	
	09/20/04	184.70	179.48	5.22	
	11/10/04	184.70	180.65	4.05	
	12/06/04	184.70	178.73	5.97	
	03/14/05	184.70	166.99	17.71	
	06/20/05	184.70	162.59	22.11	
	09/20/05	184.70	165.10	19.60	
	12/17/05	184.70	155.90	28.80	
	03/20/06	184.70	147.23	37.47	
	05/18/06	184.70	143.25	41.45	
	06/19/06	184.70	145.48	39.22	
	09/25/06	184.70	154.15	30.55	
	10/05/06	184.70	154.47	30.23	
	12/12/06	184.70	152.28	32.42	
	03/12/07	184.70	149.91	34.79	
	06/18/07	184.70	156.19	28.51	
	09/24/07	184.70	173.50	11.20	
	12/10/07	184.70	183.15	1.55	
	03/17/08	184.70	182.08	2.62	
	06/23/08	184.70	182.92	1.78	
	09/22/08	184.70	186.55	-1.85	
	12/15/08	184.70	188.45	-3.75	
	12/19/08	184.70	188.47	-3.77	
	03/16/09	184.70	187.58	-2.88	
	03/18/09	184.70	187.51	-2.81	
	06/22/09	184.70	186.43	-1.73	
	06/26/09	184.70	186.46	-1.76	
	08/31/09	184.70	187.31	-2.61	
	09/10/09	184.70	187.42	-2.72	
	12/07/09	184.70	187.82	-3.12	
	03/01/10	184.70	184.83	-0.13	
	03/22/10	184.70	182.35	2.35	
	06/07/10	184.70	178.27	6.43	
	09/07/10	184.70	180.20	4.50	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-06	12/06/10	184.70	178.75	5.95	
(Cont'd)	03/24/11	184.70	UTM	--	
	06/20/11	184.70	164.20	20.50	
	08/01/11	184.70	160.31	24.39	
	10/31/11	184.70	153.73	30.97	
	02/06/12	184.70	150.51	34.19	
	05/07/12	184.70	149.37	35.33	
	08/06/12	184.70	154.85	29.85	
	11/05/12	184.70	161.82	22.88	
	02/04/13	184.70	157.85	26.85	
	05/13/13	184.70	158.14	26.56	
	08/12/13	184.70	167.29	17.41	
	11/11/13	184.70	175.48	9.22	
	02/03/14	184.70	174.60	10.10	
	05/19/14	184.70	177.08	7.62	
	08/18/14	184.70	184.60	0.10	
	11/04/14	184.70	186.64	-1.94	
	02/02/15	184.70	183.05	1.65	
	05/11/15	184.70	177.58	7.12	
	08/10/15	184.70	179.37	5.33	
	11/02/15	184.70	181.29	3.41	
	02/01/16	184.70	178.14	6.56	
	05/02/16	184.70	175.93	8.77	
	08/01/16	184.70	177.64	7.06	
	11/07/16	184.70	181.63	3.07	
	02/06/17	184.70	176.10	8.60	
	05/15/17	184.70	169.28	15.42	
	08/07/17	184.70	169.72	14.98	
	11/06/17	184.70	156.32	28.38	
	02/26/18	184.70	148.68	36.02	
	05/07/18	184.70	152.35	32.35	
	08/20/18	184.70	158.25	26.45	
	11/06/18	184.70	163.09	21.61	
	02/11/19	184.70	159.29	25.41	
MW-08	01/27/97	169.53	150.66	18.87	
	02/18/97	169.53	149.78	19.75	
	02/26/97	169.53	149.60	19.93	
	03/06/97	169.53	149.62	19.91	
	03/12/97	169.53	149.55	19.98	
	03/28/97	169.53	149.46	20.07	
	05/19/97	169.53	149.33	20.20	
	05/13/98	169.53	149.54	19.99	
	05/27/98	169.53	149.40	20.13	
	06/11/98	169.53	149.30	20.23	
	08/30/99	169.53	155.13	14.40	DPE-H2O
	12/06/99	169.53	159.36	10.17	3.4 inches water in vaccum

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-08	02/07/00	169.53	159.68	9.85	
(Cont'd)	03/08/00	169.53	159.23	10.30	
	05/09/01	164.79	157.50	7.29	
	06/26/01	164.79	157.79	7.00	
	10/24/01	164.79	161.80	2.99	
	01/15/02	164.79	162.42	2.37	
	03/19/02	164.79	161.09	3.70	
	04/15/02	158.04	153.98	4.06	
	11/18/02	158.04	156.47	1.57	
	01/17/03	158.04	152.46	5.58	
	05/08/03	158.04	149.90	8.14	
	06/09/03	158.04	150.27	7.77	
	09/15/03	NA	UTM	--	
	10/14/03	NA	UTM	--	
	12/15/03	155.91	150.19	5.72	
	03/29/04	155.91	145.40	10.51	
	06/14/04	155.91	143.68	12.23	
	09/20/04	155.91	145.45	10.46	
	10/19/04	155.91	145.74	10.17	
	11/10/04	155.91	146.04	9.87	
	12/06/04	155.91	145.71	10.20	
	03/14/05	155.91	142.32	13.59	
	06/20/05	155.91	139.61	16.30	
	09/19/05	155.91	139.77	16.14	
	12/17/05	155.91	135.10	20.81	
	03/20/06	155.91	127.02	28.89	
	05/18/06	155.91	121.53	34.38	
	06/19/06	155.91	121.31	34.60	
	09/25/06	155.91	124.38	31.53	
	10/05/06	155.91	124.56	31.35	
	12/12/06	155.91	123.83	32.08	
	03/12/07	155.91	127.24	28.67	
	06/18/07	155.91	132.36	23.55	
	09/24/07	155.91	137.96	17.95	
	12/10/07	155.91	142.65	13.26	
	03/17/08	155.91	145.83	10.08	
	06/23/08	155.91	149.00	6.91	
	09/22/08	155.91	153.53	2.38	
	12/15/08	155.91	157.03	-1.12	
	12/19/08	155.91	157.39	-1.48	
	03/16/09	155.91	157.87	-1.96	
	03/18/09	155.91	157.92	-2.01	
	06/22/09	155.91	157.63	-1.72	
	06/26/09	155.91	157.70	-1.79	
	08/31/09	155.91	159.37	-3.46	
	09/10/09	155.91	159.45	-3.54	
	10/28/09	155.91	159.75	-3.84	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-08	10/30/09	155.91	159.73	-3.82	
(Cont'd)	11/04/09	155.91	159.84	-3.93	
	12/07/09	155.91	159.17	-3.26	
	03/01/10	155.91	157.11	-1.20	
	03/03/10	155.91	157.08	-1.17	
	06/07/10	155.91	152.97	2.94	
	09/07/10	155.91	151.91	4.00	
	12/06/10	155.91	152.22	3.69	
	03/24/11	155.91	146.19	9.72	
	03/25/11	155.91	145.55	10.36	
	06/20/11	155.91	141.72	14.19	
	08/01/11	155.91	139.94	15.97	
	08/05/11	155.91	139.80	16.11	
	10/31/11	155.91	136.88	19.03	
	02/06/12	155.91	136.04	19.87	
	05/07/12	155.91	127.33	28.58	
	08/06/12	155.91	130.71	25.20	
	11/05/12	155.91	136.67	19.24	
	02/04/13	155.91	135.88	20.03	
	05/13/13	155.91	134.32	21.59	
	08/12/13	155.91	137.80	18.11	
	11/11/13	155.91	141.02	14.89	
	02/03/14	155.91	140.72	15.19	
	05/19/14	155.91	141.78	14.13	
	08/18/14	155.91	146.40	9.51	
	11/04/14	155.91	150.19	5.72	
	02/02/15	155.91	149.21	6.70	
	05/11/15	155.91	147.28	8.63	
	08/10/15	155.91	148.42	7.49	
	11/02/15	155.91	149.81	6.10	
	02/01/16	155.91	148.40	7.51	
	05/02/16	155.91	147.26	8.65	
	08/01/16	155.91	148.75	7.16	
	11/07/16	155.91	150.60	5.31	
	02/06/17	155.91	149.06	6.85	
	05/15/17	155.91	144.44	11.47	
	08/07/17	155.91	144.20	11.71	
	11/06/17	155.91	138.67	17.24	
	02/26/18	155.91	127.34	28.57	
	05/07/18	155.91	127.08	28.83	
	08/20/18	155.91	130.30	25.61	
	11/06/18	155.91	133.18	22.73	
	02/11/19	155.91	132.59	23.32	
MW-09	03/25/97	166.42	137.58	28.84	
	03/28/97	166.42	137.34	29.08	
	05/19/97	166.42	138.31	28.11	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-09	05/13/98	166.42	139.18	27.24	
(Cont'd)	05/27/98	166.42	139.57	26.85	
	06/11/98	166.42	140.03	26.39	
	07/14/98	166.42	142.56	23.86	
	11/11/98	166.42	150.98	15.44	
	11/18/98	166.42	150.72	15.70	SVE, DPE-H2O
	11/18/98	166.42	150.57	15.85	SVE, DPE-H2O
	11/19/98	166.42	150.63	15.79	SVE, DPE-H2O
	11/20/98	166.42	150.64	15.78	SVE, DPE, DPE-H2O
	11/23/98	166.42	150.47	15.95	SVE, DPE-H2O
	11/23/98	166.42	150.43	15.99	SVE, DPE-H2O
	11/24/98	166.42	150.45	15.97	SVE, DPE-H2O
	12/07/98	166.42	149.98	16.44	SVE, DPE-H2O
	12/10/98	166.42	149.67	16.75	SVE, DPE, DPE-H2O
	12/11/98	166.42	149.68	16.74	SVE, DPE, DPE-H2O
	12/14/98	166.42	149.18	17.24	SVE, DPE-H2O
	12/16/98	166.42	148.97	17.45	SVE, DPE, DPE-H2O
	01/06/99	166.42	147.76	18.66	SVE, DPE, DPE-H2O
	01/20/99	166.42	147.18	19.24	
	01/25/99	166.42	146.80	19.62	DPE, DPE-H2O
	01/27/99	166.42	146.98	19.44	SVE, DPE, DPE-H2O
	02/01/99	166.42	146.85	19.57	SVE, DPE, DPE-H2O
	02/10/99	166.42	146.43	19.99	SVE, DPE, DPE-H2O
	02/23/99	166.42	145.78	20.64	
	03/01/99	166.42	145.68	20.74	DPE
	03/09/99	166.42	145.73	20.69	SVE, DPE, DPE-H2O
	03/10/99	166.42	145.70	20.72	SVE, DPE, DPE-H2O
	03/15/99	166.42	145.57	20.85	SVE, DPE, DPE-H2O
	04/07/99	166.42	145.35	21.07	SVE, DPE-H2O
	04/23/99	166.42	144.61	21.81	SVE, DPE-H2O
	06/16/99	166.42	147.11	19.31	SVE, DPE-H2O
	06/25/99	166.42	148.10	18.32	SVE, DPE-H2O
	08/30/99	166.42	156.90	9.52	DPE-H2O
	09/27/99	166.42	159.80	6.62	
	11/02/99	166.42	163.08	3.34	
	11/09/99	166.42	163.51	2.91	
	11/10/99	166.42	163.44	2.98	
	11/23/99	166.42	163.92	2.50	
	12/06/99	166.42	163.59	2.83	
	12/07/99	166.42	163.41	3.01	
	02/07/00	166.42	160.51	5.91	
	06/29/00	166.42	UTM	--	
	10/24/01	182.15	184.16	-2.01	
	01/15/02	182.15	182.12	0.03	
	03/19/02	182.15	177.57	4.58	
	04/15/02	182.15	176.29	5.86	
	11/18/02	182.28	181.80	0.48	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-09	01/17/03	182.28	174.44	7.84	
(Cont'd)	05/08/03	182.28	172.56	9.72	
	06/09/03	182.28	173.57	8.71	
	09/15/03	182.28	178.03	4.25	
	09/24/03	182.28	178.46	3.82	
	10/14/03	182.28	179.10	3.18	
	12/15/03	182.28	178.00	4.28	
	03/29/04	180.10	166.90	13.20	
	06/14/04	180.10	168.36	11.74	
	09/20/04	180.10	176.29	3.81	
	10/19/04	180.10	178.00	2.10	
	11/10/04	180.10	177.75	2.35	
	12/06/04	180.10	176.64	3.46	
	03/14/05	180.10	167.00	13.10	
	06/20/05	180.10	162.13	17.97	
	09/19/05	180.10	164.58	15.52	
	12/17/05	180.10	156.29	23.81	
	03/20/06	180.10	146.90	33.20	
	05/18/06	180.10	142.77	37.33	
	06/19/06	180.10	144.64	35.46	
	09/25/06	180.10	151.96	28.14	
	10/05/06	180.10	152.33	27.77	
	12/19/06	180.10	150.40	29.70	
	03/12/07	180.10	148.81	31.29	
	06/18/07	180.10	UTM	--	
	09/24/07	180.10	171.33	8.77	
	12/10/07	180.10	179.73	0.37	
	03/17/08	180.10	180.71	-0.61	
	06/27/08	180.10	182.20	-2.10	
	09/22/08	180.10	187.53	-7.43	
	12/15/08	180.10	DRY	--	Dry @ 190.2 ft bls
	03/16/09	180.10	DRY	--	Dry @ 190.0 ft bls
	06/23/09	180.10	187.69	-7.59	
	08/31/09	180.10	189.34	-9.24	
	12/07/09	180.10	189.35	-9.25	
	03/02/10	180.10	186.09	-5.99	
	03/03/10	180.10	186.08	-5.98	
	06/07/10	180.10	180.11	-0.01	
	09/07/10	180.10	180.51	-0.41	
	12/06/10	180.10	179.83	0.27	
	03/24/11	180.10	170.04	10.06	
	06/20/11	180.10	165.04	15.06	
	08/01/11	180.10	161.84	18.26	
	11/01/11	180.10	155.13	24.97	
	02/06/12	180.10	150.19	29.91	
	05/07/12	180.10	147.54	32.56	
	08/06/12	180.10	152.77	27.33	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-09	11/05/12	180.10	160.00	20.10	
(Cont'd)	02/04/13	180.10	156.77	23.33	
	05/13/13	180.10	155.68	24.42	
	08/14/13	180.10	165.03	15.07	
	11/11/13	180.10	UTM	--	
	02/05/14	180.10	171.71	8.39	
	05/19/14	180.10	173.30	6.80	
	08/20/14	180.10	181.10	-1.00	
	11/04/14	180.10	180.10	0.00	
	02/02/15	180.10	182.06	-1.96	
	05/11/15	180.10	UTM	--	
	08/10/15	180.10	177.85	2.25	
	11/02/15	180.10	179.46	0.64	
	02/01/16	180.10	177.05	3.05	
	05/02/16	180.10	174.55	5.55	
	08/01/16	180.10	176.08	4.02	
	11/07/16	180.10	179.41	0.69	
	02/06/17	180.10	175.72	4.38	
	05/15/17	180.10	168.06	12.04	
	08/07/17	180.10	168.29	11.81	
	11/06/17	180.10	157.61	22.49	
	02/26/18	180.10	147.29	32.81	
	05/07/18	180.10	149.62	30.48	
	08/21/18	180.10	154.90	25.20	
	11/06/18	180.10	158.90	21.20	
	02/11/19	180.10	156.75	23.35	
MW-13	05/19/97	162.92	149.06	13.86	
	05/13/98	162.92	150.56	12.36	
	05/27/98	162.92	149.67	13.25	
	06/11/98	162.92	149.63	13.29	
	11/02/99	162.92	166.86	-3.94	
	11/09/99	162.92	167.25	-4.33	
	11/10/99	162.92	167.36	-4.44	
	11/11/99	162.92	167.36	-4.44	
	11/23/99	162.92	167.92	-5.00	
	12/06/99	162.92	168.35	-5.43	
	12/07/99	162.92	168.38	-5.46	
	02/07/00	162.92	167.88	-4.96	
	06/21/00	162.55	164.42	-1.87	
	07/05/00	162.55	165.68	-3.13	
	01/16/01	142.51	151.58	-9.07	
	03/19/01	142.51	149.31	-6.80	
	03/26/01	142.51	148.72	-6.21	
	04/03/01	142.51	148.30	-5.79	
	04/10/01	142.51	148.00	-5.49	
	04/17/01	142.51	147.90	-5.39	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-13	04/26/01	142.51	147.50	-4.99	
(Cont'd)	05/07/01	142.51	147.14	-4.63	
	06/26/01	142.51	147.61	-5.10	
	09/10/01	142.19	151.32	-9.13	
	10/22/01	142.19	153.62	-11.43	
	10/24/01	142.19	153.68	-11.49	
	01/15/02	142.19	153.78	-11.59	
	01/15/02	142.19	153.76	-11.57	
	03/19/02	142.19	148.86	-6.67	
	04/15/02	142.19	148.29	-6.10	
	10/31/02	142.19	154.39	-12.20	
	10/31/02	142.19	154.38	-12.19	
	11/07/02	142.19	153.97	-11.78	
	11/07/02	142.19	153.95	-11.76	
	11/18/02	142.19	153.20	-11.01	
	01/17/03	142.19	142.13	0.06	
	05/08/03	142.19	138.90	3.29	
	06/09/03	142.19	140.81	1.38	
	09/15/03	142.19	146.63	-4.44	
	10/14/03	142.19	147.73	-5.54	
	12/02/03	142.19	145.21	-3.02	
	12/15/03	142.19	143.91	-1.72	
	03/29/04	142.19	132.94	9.25	
	06/14/04	142.19	132.76	9.43	
	09/20/04	142.19	138.99	3.20	
	10/19/04	142.19	140.31	1.88	
	11/10/04	142.19	140.06	2.13	
	12/06/04	142.19	139.08	3.11	
	03/14/05	142.19	127.95	14.24	
	06/20/05	142.19	129.49	12.70	
	09/19/05	142.19	132.44	9.75	
	12/17/05	142.19	116.10	26.09	
	03/20/06	142.19	112.58	29.61	
	06/19/06	142.19	108.37	33.82	
	09/25/06	142.19	115.66	26.53	
	12/12/06	142.19	112.59	29.60	
	03/12/07	142.19	117.07	25.12	
	06/18/07	142.19	126.05	16.14	
	09/24/07	142.19	137.98	4.21	
	12/10/07	142.19	146.51	-4.32	
	03/17/08	142.19	147.13	-4.94	
	06/23/08	142.19	149.38	-7.19	
	09/22/08	142.19	153.18	-10.99	
	12/15/08	142.19	156.91	-14.72	
	03/16/09	142.19	155.95	-13.76	
	06/22/09	142.19	152.05	-9.86	
	08/31/09	142.19	154.42	-12.23	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-13	12/07/09	142.19	153.32	-11.13	
(Cont'd)	03/01/10	142.19	148.41	-6.22	
	06/07/10	142.19	141.51	0.68	
	09/07/10	142.19	142.67	-0.48	
	12/06/10	142.19	144.25	-2.06	
	03/24/11	142.19	132.38	9.81	
	06/20/11	142.19	125.39	16.80	
	08/01/11	142.19	127.15	15.04	
	10/31/11	142.19	124.07	18.12	
	02/06/12	142.19	117.20	24.99	
	05/07/12	142.19	110.72	31.47	
	08/06/12	141.84	122.72	19.12	
	11/05/12	141.84	126.32	15.52	
	02/04/13	141.84	122.23	19.61	
	05/13/13	141.84	122.65	19.19	
	08/12/13	141.84	131.58	10.26	
	11/11/13	141.84	138.36	3.48	
	02/03/14	141.84	132.86	8.98	
	05/19/14	141.84	135.69	6.15	
	08/18/14	141.84	146.71	-4.87	
	11/04/14	141.84	150.59	-8.75	
	02/02/15	141.84	144.98	-3.14	
	05/11/15	141.84	UTM	--	
	08/10/15	141.84	142.80	-0.96	
	11/02/15	141.84	145.35	-3.51	
	02/01/16	141.84	140.40	1.44	
	05/02/16	141.84	139.00	2.84	
	08/01/16	141.84	144.12	-2.28	
	11/07/16	141.84	146.91	-5.07	
	02/06/17	141.84	141.47	0.37	
	05/15/17	141.84	130.60	11.24	
	08/07/17	141.84	135.47	6.37	
	11/06/17	141.84	118.28	23.56	
	02/26/18	141.84	113.66	28.18	
	05/07/18	141.84	118.78	23.06	
	08/20/18	141.84	126.01	15.83	
	11/06/18	141.84	129.19	12.65	
	02/11/19	141.84	123.11	18.73	
MW-15	05/27/98	159.20	153.83	5.37	
	06/11/98	159.20	153.16	6.04	
	11/09/99	159.20	165.47	-6.27	
	12/06/99	159.20	166.56	-7.36	
	02/07/00	159.20	167.68	-8.48	
	06/21/00	159.2	164.57	-5.37	
	07/05/00	159.2	164.94	-5.74	
	01/16/01	154.35	166.25	-11.90	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-15	03/19/01	154.35	165.42	-11.07	
(Cont'd)	05/08/01	154.35	164.16	-9.81	
	06/26/01	154.35	164.09	-9.74	
	09/10/01	154.35	166.43	-12.08	
	10/24/01	154.35	168.27	-13.92	
	01/15/02	154.35	169.03	-14.68	
	03/19/02	154.35	167.33	-12.98	
	04/15/02	146.14	158.58	-12.44	
	11/18/02	146.14	160.67	-14.53	
	01/17/03	146.14	155.87	-9.73	
	05/08/03	NA	UTM	--	
	06/09/03	144.99	149.92	-4.93	
	09/15/03	144.99	152.72	-7.73	
	09/23/03	144.99	152.99	-8.00	
	10/14/03	144.99	153.64	-8.65	
	12/15/03	144.99	152.50	-7.51	
	03/29/04	144.99	146.10	-1.11	
	06/14/04	144.99	142.94	2.05	
	09/20/04	144.99	143.78	1.21	
	10/19/04	144.99	143.74	1.25	
	11/10/04	144.99	144.01	0.98	
	12/06/04	144.99	143.95	1.04	
	03/14/05	144.99	140.02	4.97	
	06/20/05	144.99	137.35	7.64	
	09/19/05	144.99	137.57	7.42	
	12/17/05	144.99	134.72	10.27	
	03/20/06	144.99	124.34	20.65	
	05/18/06	144.99	117.13	27.86	
	06/19/06	144.99	115.44	29.55	
	09/25/06	144.99	116.80	28.19	
	10/05/06	144.99	117.09	27.90	
	12/12/06	144.99	117.21	27.78	
	03/12/07	144.99	118.76	26.23	
	06/18/07	144.99	123.16	21.83	
	09/24/07	144.99	132.92	12.07	
	12/10/07	144.99	141.07	3.92	
	03/17/08	144.99	149.72	-4.73	
	06/23/08	144.99	154.59	-9.60	
	09/22/08	144.99	160.27	-15.28	
	12/15/08	144.92	164.12	-19.20	
	12/19/08	144.92	164.61	-19.69	
	03/16/09	144.92	164.01	-19.09	
	03/18/09	144.92	165.33	-20.41	
	06/22/09	144.92	161.11	-16.19	
	06/26/09	144.92	161.17	-16.25	
	08/31/09	144.92	162.89	-17.97	
	09/10/09	144.92	163.05	-18.13	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-15	10/28/09	144.92	162.60	-17.68	
(Cont'd)	10/30/09	144.92	162.66	-17.74	
	11/04/09	144.92	162.38	-17.46	
	12/07/09	144.92	161.33	-16.41	
	03/01/10	144.92	159.25	-14.33	
	03/03/10	144.92	159.08	-14.16	
	03/09/10	144.92	154.33	-9.41	
	06/07/10	144.92	154.43	-9.51	
	09/07/10	144.92	152.71	-7.79	
	12/06/10	144.92	153.09	-8.17	
	03/24/11	144.92	147.05	-2.13	
	03/25/11	144.92	146.74	-1.82	
	06/20/11	144.92	142.83	2.09	
	08/01/11	144.92	141.00	3.92	
	08/05/11	144.92	140.61	4.31	
	10/31/11	144.92	138.25	6.67	
	02/06/12	144.92	133.38	11.54	
	05/07/12	144.92	125.83	19.09	
	08/06/12	144.95	124.70	20.25	
	11/05/12	144.95	130.04	14.91	
	02/04/13	144.95	130.76	14.19	
	05/13/13	144.95	128.03	16.92	
	08/12/13	144.95	134.30	10.65	
	11/11/13	144.95	140.15	4.80	
	02/03/14	144.95	140.93	4.02	
	05/19/14	144.95	141.94	3.01	
	08/18/14	144.95	147.95	-3.00	
	11/04/14	144.95	153.31	-8.36	
	02/02/15	144.95	153.08	-8.13	
	05/11/15	144.95	149.51	-4.56	
	08/10/15	144.95	150.48	-5.53	
	11/02/15	144.95	152.03	-7.08	
	02/01/16	144.95	150.10	-5.15	
	05/02/16	144.95	148.58	-3.63	
	08/01/16	144.95	150.34	-5.39	
	11/07/16	144.95	152.92	-7.97	
	02/06/17	144.95	151.51	-6.56	
	05/15/17	144.95	145.35	-0.40	
	08/07/17	144.95	144.80	0.15	
	11/06/17	144.95	140.75	4.20	
	02/26/18	144.95	127.60	17.35	
	05/07/18	144.95	124.91	20.04	
	08/20/18	144.95	127.27	17.68	
	11/06/18	144.95	129.65	15.30	
	02/11/19	144.95	130.53	14.42	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-16	11/09/99	164.08	170.71	-6.63	
(Cont'd)	11/09/99	164.08	170.84	-6.76	
	11/10/99	164.08	171.00	-6.92	
	11/10/99	164.08	174.01	-9.93	
	11/22/99	164.08	163.94	0.14	
	11/23/99	164.08	164.17	-0.09	
	12/06/99	164.08	164.36	-0.28	
	12/07/99	164.08	164.32	-0.24	
	12/07/99	164.08	172.50	-8.42	
	02/07/00	164.08	162.75	1.33	
	02/18/00	164.08	162.36	1.72	
	06/21/00	164.08	160.66	3.42	
	07/05/00	164.08	161.62	2.46	
	07/06/00	164.08	161.62	2.46	
	01/16/01	146.18	148.73	-2.55	
	03/19/01	146.18	146.47	-0.29	
	03/26/01	146.18	146.07	0.11	
	04/03/01	146.18	145.80	0.38	
	04/10/01	146.18	145.50	0.68	
	04/17/01	146.18	145.20	0.98	
	04/26/01	146.18	145.50	0.68	
	05/10/01	146.18	144.70	1.48	
	06/26/01	146.18	149.09	-2.91	
	10/24/01	146.26	151.72	-5.46	
	01/15/02	142.73	148.36	-5.63	
	03/19/02	142.73	145.53	-2.80	
	04/15/02	142.73	145.24	-2.51	
	10/31/02	142.73	149.95	-7.22	
	11/18/02	142.73	147.11	-4.38	
	01/17/03	142.73	133.43	9.30	
	01/17/03	142.73	133.44	9.29	
	05/08/03	142.73	142.24	0.49	
	06/09/03	142.73	145.96	-3.23	
	09/15/03	142.73	150.25	-7.52	
	09/19/03	142.73	150.32	-7.59	
	09/24/03	142.73	150.37	-7.64	
	09/25/03	142.73	150.26	-7.53	
	10/14/03	142.73	149.51	-6.78	
	12/02/03	142.73	143.81	-1.08	
	12/03/03	142.73	143.52	-0.79	
	12/15/03	142.73	141.50	1.23	
	03/29/04	142.73	129.17	13.56	
	04/29/04	142.73	128.89	13.84	
	06/14/04	142.73	134.28	8.45	
	09/20/04	142.73	146.47	-3.74	
	10/19/04	142.73	146.25	-3.52	
	11/10/04	142.73	144.36	-1.63	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-16	12/06/04	142.73	141.31	1.42	
(Cont'd)	03/14/05	142.73	127.49	15.24	
	06/20/05	142.73	132.93	9.80	
	07/13/05	142.73	130.66	12.07	
	09/19/05	142.73	140.08	2.65	
	09/21/05	142.73	140.27	2.46	
	12/17/05	142.73	119.28	23.45	
	12/19/05	142.73	118.95	23.78	
	03/20/06	142.73	112.82	29.91	
	06/19/06	142.73	108.54	34.19	
	09/25/06	142.73	118.38	24.35	
	10/05/06	142.73	118.60	24.13	
	12/11/06	142.73	116.26	26.47	
	03/12/07	142.73	122.91	19.82	
	06/18/07	142.73	123.16	19.57	
	09/24/07	142.73	153.25	-10.52	
	12/10/07	142.73	150.10	-7.37	
	12/20/07	142.73	150.49	-7.76	
	03/17/08	142.73	150.44	-7.71	
	06/23/08	142.73	152.46	-9.73	
	07/11/08	142.73	153.82	-11.09	
	07/14/08	142.73	153.73	-11.00	
	07/15/08	142.73	153.81	-11.08	
	07/30/08	142.73	155.17	-12.44	
	09/22/08	142.73	159.91	-17.18	
	10/22/08	142.73	162.00	-19.27	
	12/15/08	142.73	164.63	-21.90	
	12/19/08	142.73	164.07	-21.34	
	02/25/09	142.73	159.44	-16.71	
	03/16/09	142.73	159.56	-16.83	
	03/18/09	142.73	160.35	-17.62	
	04/29/09	142.73	154.63	-11.90	
	04/29/09	142.73	154.68	-11.95	
	05/27/09	142.73	156.56	-13.83	
	06/22/09	142.73	157.90	-15.17	
	06/26/09	142.73	158.59	-15.86	
	08/31/09	142.73	160.61	-17.88	
	09/10/09	142.73	161.06	-18.33	
	10/23/09	142.73	158.83	-16.10	
	10/30/09	142.73	157.98	-15.25	
	11/04/09	142.73	157.58	-14.85	
	12/07/09	142.73	156.03	-13.30	
	01/19/10	142.73	154.70	-11.97	
	03/01/10	142.73	149.08	-6.35	
	03/03/10	142.73	148.71	-5.98	
	06/07/10	142.73	144.31	-1.58	
	09/07/10	142.73	151.63	-8.90	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-16	12/06/10	142.73	150.27	-7.54	
(Cont'd)	03/24/11	142.73	134.07	8.66	
	06/20/11	142.73	129.99	12.74	
	08/01/11	142.73	130.92	11.81	
	08/05/11	142.73	131.23	11.50	
	10/31/11	142.73	128.83	13.90	
	02/06/12	142.73	121.44	21.29	
	05/07/12	142.73	115.07	27.66	
	08/06/12	142.40	127.03	15.37	
	11/05/12	142.40	137.88	4.52	
	12/10/12	142.40	134.83	7.57	
	02/04/13	142.40	130.18	12.22	
	05/13/13	142.40	128.52	13.88	
	08/12/13	142.40	147.17	-4.77	
	11/11/13	142.40	148.83	-6.43	
	02/03/14	142.40	140.85	1.55	
	05/19/14	142.40	146.88	-4.48	
	08/18/14	142.40	155.65	-13.25	
	11/04/14	142.40	155.20	-12.80	
	02/02/15	142.40	147.12	-4.72	
	05/11/15	142.40	144.17	-1.77	
	08/10/15	142.40	151.80	-9.40	
	11/02/15	142.40	151.15	-8.75	
	02/01/16	142.40	143.32	-0.92	
	05/02/16	142.40	145.40	-3.00	
	08/01/16	142.40	151.25	-8.85	
	11/07/16	142.40	153.21	-10.81	
	02/06/17	142.40	139.01	3.39	
	05/15/17	142.40	134.17	8.23	
	08/07/17	142.40	140.81	1.59	
	11/06/17	142.40	119.82	22.58	
	02/26/18	142.40	113.61	28.79	
	05/07/18	142.40	116.44	25.96	
	08/20/18	142.40	124.76	17.64	
	11/06/18	142.40	128.51	13.89	
	02/11/19	142.40	122.99	19.41	
MW-17	06/21/00	158.77	163.65	-4.88	
	07/05/00	158.77	166.30	-7.53	
	01/16/01	145.28	154.14	-8.86	
	03/19/01	145.28	148.20	-2.92	
	03/26/01	145.28	147.96	-2.68	
	04/03/01	145.28	148.00	-2.72	
	04/10/01	145.28	147.80	-2.52	
	04/17/01	145.28	147.70	-2.42	
	04/26/01	145.28	147.90	-2.62	
	05/08/01	145.28	148.34	-3.06	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-17	06/26/01	145.28	152.88	-7.60	
(Cont'd)	09/10/01	142.49	159.11	-16.62	
	10/22/01	142.49	162.45	-19.96	
	10/24/01	142.49	162.52	-20.03	
	01/15/02	142.49	150.30	-7.81	
	03/19/02	142.49	146.31	-3.82	
	04/15/02	142.49	146.92	-4.43	
	11/18/02	142.49	145.21	-2.72	
	05/08/03	142.49	142.77	-0.28	
	06/09/03	142.49	146.12	-3.63	
	09/15/03	142.66	151.61	-8.95	
	10/14/03	142.66	152.31	-9.65	
	12/02/03	142.66	141.10	1.56	
	12/15/03	142.66	138.77	3.89	
	03/29/04	142.66	128.10	14.56	
	06/14/04	142.66	135.02	7.64	
	09/20/04	142.66	145.34	-2.68	
	10/19/04	142.66	144.94	-2.28	
	11/10/04	142.66	142.71	-0.05	
	12/06/04	142.66	138.67	3.99	
	03/14/05	142.66	125.49	17.17	
	06/20/05	142.66	132.60	10.06	
	09/19/05	142.66	137.49	5.17	
	12/17/05	142.66	116.68	25.98	
	03/20/06	142.66	113.20	29.46	
	06/19/06	142.66	108.97	33.69	
	09/25/06	142.66	116.20	26.46	
	12/12/06	142.66	113.17	29.49	
	03/12/07	142.66	117.46	25.20	
	06/18/07	142.66	129.43	13.23	
	09/24/07	142.66	149.29	-6.63	
	12/10/07	142.66	154.89	-12.23	
	03/17/08	142.66	149.19	-6.53	
	06/23/08	142.66	154.35	-11.69	
	09/22/08	142.66	162.79	-20.13	
	12/15/08	142.66	162.89	-20.23	
	03/16/09	142.66	151.39	-8.73	
	06/22/09	142.66	152.09	-9.43	
	08/31/09	142.66	156.35	-13.69	
	12/07/09	142.66	150.10	-7.44	
	03/01/10	142.66	145.46	-2.80	
	06/07/10	142.66	139.06	3.60	
	09/08/10	142.66	145.75	-3.09	
	12/06/10	142.66	143.89	-1.23	
	03/24/11	142.66	128.87	13.79	
	06/20/11	142.66	125.84	16.82	
	08/01/11	142.66	127.11	15.55	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-17	10/31/11	142.66	124.34	18.32	
(Cont'd)	02/06/12	142.66	117.62	25.04	
	05/07/12	142.66	111.26	31.40	
	08/06/12	142.70	123.10	19.60	
	11/05/12	142.70	129.72	12.98	
	02/04/13	142.70	122.55	20.15	
	05/13/13	142.70	122.90	19.80	
	08/12/13	142.70	139.22	3.48	
	11/11/13	142.70	141.18	1.52	
	02/03/14	142.70	132.71	9.99	
	05/19/14	142.70	142.29	0.41	
	08/18/14	142.70	155.51	-12.81	
	11/04/14	142.70	156.45	-13.75	
	02/02/15	142.70	140.40	2.30	
	05/11/15	142.70	139.91	2.79	
	08/10/15	142.70	146.89	-4.19	
	11/02/15	142.70	145.56	-2.86	
	02/01/16	142.70	137.45	5.25	
	05/02/16	142.70	141.41	1.29	
	08/01/16	142.70	147.70	-5.00	
	11/07/16	142.70	148.30	-5.60	
	02/06/17	142.70	133.58	9.12	
	05/15/17	142.70	131.31	11.39	
	08/07/17	142.70	137.68	5.02	
	11/06/17	142.70	118.34	24.36	
	02/26/18	142.70	113.61	29.09	
	05/07/18	142.70	118.72	23.98	
	08/20/18	142.70	129.80	12.90	
	11/06/18	142.70	132.61	10.09	
	02/11/19	142.70	123.20	19.50	
MW-18	06/15/00	161.51	166.05	-4.54	
	06/21/00	161.51	167.18	-5.67	
	07/05/00	161.51	169.55	-8.04	
	01/16/01	144.03	153.83	-9.80	
	03/19/01	144.03	147.97	-3.94	
	03/26/01	144.03	147.72	-3.69	
	04/03/01	144.03	147.70	-3.67	
	04/10/01	144.03	147.40	-3.37	
	04/17/01	144.03	147.30	-3.27	
	04/26/01	144.03	147.60	-3.57	
	05/07/01	144.03	148.07	-4.04	
	06/26/01	144.03	152.56	-8.53	
	09/10/01	142.11	159.63	-17.52	
	10/22/01	142.11	162.83	-20.72	
	10/24/01	142.11	162.88	-20.77	
	01/15/02	142.11	150.89	-8.78	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-18	01/15/02	142.11	150.84	-8.73	
(Cont'd)	03/19/02	142.11	146.87	-4.76	
	04/15/02	142.11	147.46	-5.35	
	10/31/02	142.11	151.28	-9.17	
	10/31/02	142.11	151.24	-9.13	
	11/07/02	142.11	149.20	-7.09	
	11/07/02	142.11	149.17	-7.06	
	11/18/02	142.11	145.66	-3.55	
	01/17/03	142.11	131.07	11.04	
	05/08/03	142.11	143.19	-1.08	
	06/09/03	142.11	146.59	-4.48	
	09/15/03	142.11	151.93	-9.82	
	10/14/03	142.11	152.61	-10.50	
	12/02/03	142.11	141.26	0.85	
	12/03/03	142.11	141.04	1.07	
	12/15/03	142.11	138.95	3.16	
	03/29/04	142.11	128.16	13.95	
	04/29/04	142.11	128.60	13.51	
	06/14/04	142.11	135.03	7.08	
	09/20/04	142.11	145.41	-3.30	
	10/19/04	142.11	145.00	-2.89	
	11/10/04	142.11	142.82	-0.71	
	12/06/04	142.11	138.22	3.89	
	03/14/05	142.11	125.47	16.64	
	06/20/05	142.11	131.58	10.53	
	07/13/05	142.11	128.64	13.47	
	09/19/05	142.11	137.61	4.50	
	09/21/05	142.11	137.79	4.32	
	12/17/05	142.11	116.61	25.50	
	02/24/06	142.11	108.75	33.36	
	03/20/06	142.11	112.98	29.13	
	05/18/06	142.11	106.02	36.09	
	06/19/06	142.11	108.73	33.38	
	09/25/06	142.11	116.04	26.07	
	12/12/06	142.11	112.97	29.14	
	03/12/07	142.11	117.39	24.72	
	06/18/07	142.11	129.43	12.68	
	09/24/07	142.11	149.48	-7.37	
	12/10/07	142.11	155.01	-12.90	
	03/17/08	142.11	149.46	-7.35	
	06/23/08	142.11	154.58	-12.47	
	09/22/08	142.11	162.96	-20.85	
	12/15/08	142.11	163.14	-21.03	
	03/16/09	142.11	151.76	-9.65	
	06/22/09	142.11	152.37	-10.26	
	08/31/09	142.11	156.67	-14.56	
	12/07/09	142.11	150.40	-8.29	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-18	03/01/10	142.11	145.68	-3.57	
(Cont'd)	06/07/10	142.11	139.22	2.89	
	09/07/10	142.11	145.91	-3.80	
	12/06/10	142.11	144.09	-1.98	
	03/24/11	142.11	128.91	13.20	
	06/20/11	142.11	125.82	16.29	
	08/01/11	142.11	127.20	14.91	
	10/31/11	142.11	124.44	17.67	
	02/06/12	142.11	117.59	24.52	
	05/07/12	142.11	111.11	31.00	
	08/06/12	142.32	123.10	19.22	
	11/05/12	142.32	129.95	12.37	
	02/04/13	142.32	122.75	19.57	
	05/13/13	142.32	123.11	19.21	
	08/12/13	142.32	139.59	2.73	
	11/11/13	142.32	141.50	0.82	
	02/03/14	142.32	132.93	9.39	
	05/19/14	142.32	142.72	-0.40	
	08/18/14	142.32	155.01	-12.69	
	11/04/14	142.32	156.98	-14.66	
	02/02/15	142.32	140.77	1.55	
	05/11/15	142.32	140.34	1.98	
	08/10/15	142.32	147.44	-5.12	
	11/02/15	142.32	146.02	-3.70	
	02/01/16	142.32	137.80	4.52	
	05/02/16	142.32	142.11	0.21	
	08/01/16	142.32	148.48	-6.16	
	11/07/16	142.32	149.12	-6.80	
	02/06/17	142.32	134.27	8.05	
	05/15/17	142.32	131.85	10.47	
	08/07/17	142.32	138.33	3.99	
	11/06/17	142.32	118.79	23.53	
	02/26/18	142.32	114.03	28.29	
	05/07/18	142.32	119.15	23.17	
	08/20/18	142.32	130.31	12.01	
	11/06/18	142.32	133.16	9.16	
	02/11/19	142.32	123.62	18.70	
MW-19	06/14/00	156.43	160.16	-3.73	
	06/21/00	156.43	161.53	-5.10	
	07/05/00	156.43	164.21	-7.78	
	01/16/01	145.28	UTM	--	
	03/19/01	145.28	UTM	--	
	05/08/01	145.28	148.50	-3.22	
	06/26/01	145.28	153.11	-7.83	
	09/10/01	142.55	159.50	-16.95	
	10/22/01	142.55	162.99	-20.44	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-19	10/24/01	142.55	162.98	-20.43	
(Cont'd)	01/15/02	142.55	150.68	-8.13	
	03/19/02	142.55	146.60	-4.05	
	04/15/02	142.55	147.21	-4.66	
	11/18/02	142.55	145.68	-3.13	
	05/08/03	142.55	143.03	-0.48	
	06/09/03	142.55	146.39	-3.84	
	09/15/03	142.55	151.75	-9.20	
	09/19/03	142.55	151.85	-9.30	
	10/14/03	142.55	152.45	-9.90	
	12/02/03	142.55	141.40	1.15	
	12/15/03	142.72	139.07	3.65	
	03/29/04	142.72	128.10	14.62	
	06/14/04	142.72	135.09	7.63	
	09/20/04	142.72	145.55	-2.83	
	10/19/04	142.72	145.20	-2.48	
	11/10/04	142.72	142.94	-0.22	
	12/06/04	142.72	138.87	3.85	
	03/14/05	142.72	125.50	17.22	
	06/20/05	142.72	131.63	11.09	
	09/19/05	142.72	137.49	5.23	
	12/17/05	142.72	116.59	26.13	
	03/20/06	142.72	112.71	30.01	
	06/19/06	142.72	108.71	34.01	
	09/25/06	142.72	116.10	26.62	
	12/12/06	142.72	113.00	29.72	
	03/12/07	142.72	117.20	25.52	
	06/18/07	142.72	129.32	13.40	
	09/24/07	142.72	149.46	-6.74	
	12/10/07	142.72	155.15	-12.43	
	03/17/08	142.72	149.35	-6.63	
	06/23/08	142.72	154.47	-11.75	
	09/22/08	142.72	163.03	-20.31	
	12/15/08	142.72	163.18	-20.46	
	03/16/09	142.72	151.68	-8.96	
	06/22/09	142.72	152.41	-9.69	
	08/31/09	142.72	156.69	-13.97	
	12/07/09	142.72	150.42	-7.70	
	03/01/10	142.72	145.73	-3.01	
	06/07/10	142.72	139.20	3.52	
	09/08/10	142.72	145.97	-3.25	
	12/06/10	142.72	144.11	-1.39	
	03/24/11	142.72	128.79	13.93	
	06/20/11	142.72	125.82	16.90	
	08/01/11	142.72	127.06	15.66	
	10/31/11	142.72	124.19	18.53	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-19	02/06/12	142.72	117.41	25.31	
(Cont'd)	05/07/12	142.72	111.03	31.69	
	08/06/12	142.06	122.99	19.07	
	11/05/12	142.06	129.73	12.33	
	02/04/13	142.06	122.49	19.57	
	05/13/13	142.06	122.76	19.30	
	08/12/13	142.06	139.28	2.78	
	11/11/13	142.06	141.43	0.63	
	02/03/14	142.06	132.91	9.15	
	05/19/14	142.06	142.39	-0.33	
	08/18/14	142.06	154.73	-12.67	
	11/04/14	142.06	156.81	-14.75	
	02/02/15	142.06	140.66	1.40	
	05/11/15	142.06	140.04	2.02	
	08/10/15	142.06	147.05	-4.99	
	11/02/15	142.06	145.85	-3.79	
	02/01/16	142.06	137.60	4.46	
	05/02/16	142.06	141.70	0.36	
	08/01/16	142.06	147.99	-5.93	
	11/07/16	142.06	148.77	-6.71	
	02/06/17	142.06	133.94	8.12	
	05/15/17	142.06	131.52	10.54	
	08/07/17	142.06	137.97	4.09	
	11/06/17	142.06	118.44	23.62	
	02/26/18	142.06	113.63	28.43	
	05/07/18	142.06	118.76	23.30	
	08/20/18	142.06	129.95	12.11	
	11/06/18	142.06	132.85	9.21	
	02/11/19	142.06	123.39	18.67	
MW-20	06/30/03	184.19	168.22	15.97	
	09/15/03	184.19	171.58	12.61	
	09/23/03	184.19	171.95	12.24	
	10/08/03	184.19	172.43	11.76	
	10/14/03	184.19	172.83	11.36	
	12/15/03	184.19	172.34	11.85	
	03/29/04	184.19	163.81	20.38	
	06/14/04	184.19	165.21	18.98	
	09/20/04	184.19	174.15	10.04	
	11/10/04	184.19	176.60	7.59	
	12/06/04	184.19	175.49	8.70	
	03/14/05	184.19	165.05	19.14	
	06/20/05	184.19	158.60	25.59	
	09/19/05	184.19	160.38	23.81	
	12/17/05	184.19	153.77	30.42	
	03/20/06	184.19	144.52	39.67	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-20	06/19/06	184.19	142.00	42.19	
(Cont'd)	09/25/06	184.19	149.33	34.86	
	12/12/06	184.19	148.77	35.42	
	03/12/07	184.19	146.04	38.15	
	06/18/07	184.19	150.00	34.19	
	09/24/07	184.19	166.46	17.73	
	12/10/07	184.19	176.76	7.43	
	03/17/08	184.19	177.00	7.19	
	06/23/08	184.19	176.53	7.66	
	09/22/08	184.19	182.60	1.59	
	12/15/08	184.19	185.69	-1.50	
	03/16/09	184.19	184.62	-0.43	
	06/22/09	184.19	182.07	2.12	
	08/31/09	184.19	183.50	0.69	
	12/07/09	184.19	184.31	-0.12	
	03/01/10	184.19	180.87	3.32	
	06/07/10	184.19	174.32	9.87	
	09/07/10	184.19	175.17	9.02	
	12/06/10	184.19	174.53	9.66	
	03/24/11	184.19	165.49	18.70	
	06/20/11	184.19	160.68	23.51	
	08/01/11	184.19	156.84	27.35	
	10/31/11	184.19	149.75	34.44	
	02/06/12	184.19	145.82	38.37	
	05/07/12	184.19	144.24	39.95	
	08/06/12	184.19	148.35	35.84	
	11/05/12	184.19	155.69	28.50	
	02/04/13	184.19	153.17	31.02	
	05/13/13	184.19	152.17	32.02	
	08/12/13	184.19	160.23	23.96	
	11/11/13	184.19	169.35	14.84	
	02/03/14	184.19	168.83	15.36	
	05/19/14	184.19	170.06	14.13	
	08/18/14	184.19	177.61	6.58	
	11/04/14	184.19	182.39	1.80	
	02/02/15	184.19	178.53	5.66	
	05/11/15	184.19	172.40	11.79	
	08/10/15	184.19	173.36	10.83	
	11/02/15	184.19	175.51	8.68	
	02/01/16	184.19	173.00	11.19	
	05/02/16	184.19	170.57	13.62	
	08/01/16	184.19	171.60	12.59	
	11/07/16	184.19	175.75	8.44	
	02/06/17	184.19	172.10	12.09	
	05/15/17	184.19	164.27	19.92	
	08/07/17	184.19	164.41	19.78	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-20	11/06/17	184.19	154.35	29.84	
(Cont'd)	02/26/18	184.19	144.15	40.04	
	05/07/18	184.19	146.59	37.60	
	08/20/18	184.19	151.55	32.64	
	11/06/18	184.19	156.43	27.76	
	02/11/19	184.19	154.45	29.74	
MW-21	09/15/03	142.68	146.34	-3.66	
	09/19/03	142.68	146.53	-3.85	
	09/23/03	142.68	146.75	-4.07	
	09/25/03	142.68	147.05	-4.37	
	10/08/03	142.68	147.31	-4.63	
	10/14/03	142.68	147.72	-5.04	
	12/02/03	142.68	142.95	-0.27	
	12/03/03	142.68	142.65	0.03	
	12/15/03	142.68	141.34	1.34	
	03/29/04	142.68	130.83	11.85	
	04/29/04	142.68	129.48	13.20	
	06/14/04	142.68	131.21	11.47	
	09/20/04	142.68	138.15	4.53	
	10/19/04	142.68	138.75	3.93	
	11/10/04	142.68	138.82	3.86	
	12/06/04	142.68	137.64	5.04	
	03/14/05	142.68	128.64	14.04	
	06/20/05	142.68	127.83	14.85	
	07/13/05	142.68	126.82	15.86	
	09/19/05	142.68	131.31	11.37	
	09/21/05	142.68	131.51	11.17	
	12/17/05	142.68	120.26	22.42	
	12/19/05	142.68	120.13	22.55	
	03/20/06	142.68	113.24	29.44	
	06/19/06	142.68	107.60	35.08	
	09/25/06	142.68	111.36	31.32	
	10/05/06	142.68	111.45	31.23	
	12/11/06	142.68	110.57	32.11	
	03/12/07	142.68	114.18	28.50	
	06/18/07	142.68	120.04	22.64	
	09/24/07	142.68	135.85	6.83	
	12/10/07	142.68	146.37	-3.69	
	01/21/08	142.68	148.51	-5.83	
	01/21/08	140.30	148.51	-8.2	
	03/17/08	140.30	146.90	-6.6	Pilot GETS
	05/27/08	141.23	148.71	-7.48	
	06/23/08	141.23	150.40	-9.17	
	07/09/08	141.18	160.02	-18.84	Pilot GETS
	07/11/08	141.18	153.31	-12.13	Pilot GETS

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-21	07/14/08	141.18	152.84	-11.66	Pilot GETS
(Cont'd)	07/15/08	141.18	161.98	-20.8	Pilot GETS
	07/30/08	141.18	162.93	-21.75	Pilot GETS
	08/14/08	141.18	165.94	-24.76	
	08/25/08	141.18	167.47	-26.29	
	09/22/08	141.18	170.65	-29.47	
	10/22/08	141.18	172.35	-31.17	
	12/15/08	141.18	168.21	-27.03	Pilot GETS
	12/19/08	141.18	166.50	-25.32	Pilot GETS
	01/07/09	141.18	161.36	-20.18	Pilot GETS
	02/25/09	141.18	165.74	-24.56	
	03/16/09	141.18	166.33	-25.15	Pilot GETS
	03/18/09	141.18	164.52	-23.34	Pilot GETS
	04/29/09	141.18	156.91	-15.73	Pilot GETS
	04/29/09	141.18	162.95	-21.77	Pilot GETS
	05/27/09	141.18	162.71	-21.53	Pilot GETS
	06/22/09	141.18	163.25	-22.07	Pilot GETS
	06/26/09	141.18	163.49	-22.31	Pilot GETS
	06/29/09	141.18	163.93	-22.75	Pilot GETS
	07/22/09	141.18	166.47	-25.29	Pilot GETS
	08/14/09	141.18	170.24	-29.06	Pilot GETS
	08/31/09	141.18	166.80	-25.62	Pilot GETS
	09/10/09	141.18	168.29	-27.11	Pilot GETS
	09/11/09	141.18	167.13	-25.95	
	10/08/09	141.18	166.65	-25.47	
	10/23/09	141.18	155.98	-14.80	
	10/30/09	141.18	154.90	-13.72	
	11/04/09	141.18	154.08	-12.90	
	12/07/09	141.18	150.92	-9.74	
	12/09/09	141.18	155.00	-13.82	
	03/01/10	141.18	144.78	-3.60	
	03/05/10	141.18	156.41	-15.23	
	06/07/10	141.18	137.88	3.30	
	09/07/10	141.18	139.87	1.31	
	12/06/10	141.18	141.05	0.13	
	03/24/11	141.18	129.59	11.59	
	06/20/11	141.18	124.57	16.61	
	08/01/11	141.18	123.72	17.46	
	08/05/11	141.18	123.64	17.54	
	10/14/11	141.18	120.69	20.49	Pilot GETS
	10/31/11	141.18	120.89	20.29	Pilot GETS
	12/08/11	141.18	131.77	9.41	Pilot GETS
	01/05/12	141.18	133.06	8.12	Pilot GETS
	01/06/12	141.18	133.19	7.99	Pilot GETS
	01/25/12	141.18	132.89	8.29	Pilot GETS
	02/06/12	141.18	132.30	8.88	Pilot GETS
	02/08/12	141.18	132.93	8.25	Pilot GETS

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-21	03/09/12	141.18	131.41	9.77	
(Cont'd)	04/02/12	141.18	114.08	27.10	
	05/07/12	141.18	111.08	30.10	
	06/26/12	141.18	111.62	29.56	
	08/06/12	141.18	115.74	25.44	
	11/05/12	141.18	122.76	18.42	
	02/04/13	141.18	120.81	20.37	
	05/13/13	141.18	119.39	21.79	
	08/12/13	141.18	129.76	11.42	
	11/11/13	141.18	136.24	4.94	
	02/03/14	141.18	132.53	8.65	
	05/19/14	141.18	135.55	5.63	
	08/18/14	141.18	145.70	-4.52	
	11/04/14	141.18	150.91	-9.73	
	02/02/15	141.18	142.81	-1.63	
	05/11/15	141.18	137.72	3.46	
	08/10/15	141.18	141.41	-0.23	
	11/02/15	141.18	142.78	-1.60	
	02/01/16	141.18	138.22	2.96	
	05/02/16	141.18	137.45	3.73	
	08/01/16	141.18	141.20	-0.02	
	11/07/16	141.18	145.60	-4.42	
	02/06/17	141.18	137.28	3.90	
	05/15/17	141.18	130.30	10.88	
	08/07/17	141.18	132.40	8.78	
	11/06/17	141.18	121.00	20.18	
	02/26/18	141.18	111.72	29.46	
	05/07/18	141.18	111.48	29.70	
	08/20/18	141.18	115.21	25.97	
	11/06/18	141.18	118.22	22.96	
	02/11/19	141.18	117.73	23.45	
MW-22	09/15/03	138.65	147.40	-8.75	
	09/15/03	138.65	148.23	-9.58	
	09/19/03	138.65	147.65	-9.00	
	09/23/03	138.65	147.77	-9.12	
	09/25/03	138.65	147.92	-9.27	
	10/08/03	138.65	148.08	-9.43	
	10/14/03	138.65	148.24	-9.59	
	12/02/03	138.65	136.80	1.85	
	12/03/03	138.65	136.56	2.09	
	12/15/03	138.65	134.47	4.18	
	03/29/04	138.65	123.84	14.81	
	04/29/04	138.65	124.38	14.27	
	06/14/04	138.65	130.80	7.85	
	09/20/04	138.65	141.03	-2.38	
	10/19/04	138.65	140.81	-2.16	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-22	11/10/04	138.65	138.43	0.22	
(Cont'd)	12/06/04	138.65	134.38	4.27	
	03/14/05	138.65	121.17	17.48	
	06/20/05	138.65	127.33	11.32	
	07/13/05	138.65	124.37	14.28	
	09/19/05	138.65	133.55	5.10	
	09/21/05	138.65	133.66	4.99	
	12/17/05	138.65	112.37	26.28	
	03/20/06	138.65	109.01	29.64	
	06/19/06	138.65	104.82	33.83	
	09/25/06	138.65	112.02	26.63	
	12/12/06	138.65	108.93	29.72	
	03/12/07	138.65	113.44	25.21	
	06/18/07	138.65	125.49	13.16	
	09/24/07	138.65	145.19	-6.54	
	12/10/07	138.65	150.68	-12.03	
	12/20/07	138.65	150.54	-11.89	
	01/21/08	138.65	148.35	-9.70	
	03/17/08	138.65	145.11	-6.46	
	04/21/08	138.65	145.53	-6.88	
	05/27/08	138.65	148.00	-9.35	
	06/23/08	138.65	150.29	-11.64	
	09/22/08	138.65	158.69	-20.04	
	12/15/08	138.65	158.75	-20.10	
	03/16/09	138.65	147.07	-8.42	
	06/22/09	138.65	147.84	-9.19	
	08/31/09	138.65	152.10	-13.45	
	12/07/09	138.65	145.84	-7.19	
	03/01/10	138.65	141.12	-2.47	
	03/02/10	138.65	140.97	-2.32	
	06/07/10	138.65	134.83	3.82	
	09/07/10	138.65	141.49	-2.84	
	12/06/10	138.65	139.63	-0.98	
	03/25/11	138.65	124.60	14.05	
	06/20/11	138.65	121.60	17.05	
	08/01/11	138.65	123.01	15.64	
	10/31/11	138.65	120.38	18.27	
	02/06/12	138.65	113.56	25.09	
	05/07/12	138.65	107.13	31.52	
	08/06/12	138.65	119.55	19.10	
	11/05/12	138.65	126.01	12.64	
	02/04/13	138.65	118.83	19.82	
	05/13/13	138.65	119.39	19.26	
	08/12/13	138.65	135.75	2.90	
	11/11/13	138.65	137.31	1.34	
	02/03/14	138.65	128.85	9.80	
	05/19/14	138.65	138.75	-0.10	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-22	08/18/14	138.65	150.82	-12.17	
(Cont'd)	11/04/14	138.65	152.76	-14.11	
	02/02/15	138.65	136.45	2.20	
	05/11/15	138.65	136.33	2.32	
	08/10/15	138.65	143.45	-4.80	
	11/02/15	138.65	141.78	-3.13	
	02/01/16	138.65	133.67	4.98	
	05/02/16	138.65	137.70	0.95	
	08/01/16	138.65	144.28	-5.63	
	11/07/16	138.65	144.84	-6.19	
	02/06/17	138.65	129.85	8.80	
	05/15/17	138.65	127.92	10.73	
	08/07/17	138.65	134.26	4.39	
	11/06/17	138.65	114.81	23.84	
	02/26/18	138.65	110.33	28.32	
	05/07/18	138.65	115.45	23.20	
	08/20/18	138.65	126.52	12.13	
	11/06/18	138.65	129.33	9.32	
	02/11/19	138.65	119.65	19.00	
MW-23	09/15/03	137.16	147.30	-10.14	
	09/19/03	137.33	147.75	-10.42	
	09/23/03	137.33	147.75	-10.42	
	09/25/03	137.33	147.87	-10.54	
	10/08/03	137.33	148.09	-10.76	
	10/14/03	137.33	148.21	-10.88	
	12/02/03	137.33	136.17	1.16	
	12/15/03	137.33	133.83	3.50	
	03/29/04	137.33	123.30	14.03	
	04/29/04	137.33	123.77	13.56	
	06/14/04	137.33	130.20	7.13	
	09/20/04	137.33	140.19	-2.86	
	10/19/04	137.33	UTM	--	
	11/10/04	137.33	137.76	-0.43	
	12/06/04	137.33	133.56	3.77	
	03/14/05	137.33	120.52	16.81	
	06/20/05	137.33	127.18	10.15	
	07/13/05	137.33	123.89	13.44	
	09/19/05	137.33	133.50	3.83	
	09/21/05	137.33	133.67	3.66	
	12/17/05	137.33	111.74	25.59	
	12/19/05	137.33	111.45	25.88	
	03/20/06	137.33	108.90	28.43	
	05/18/06	137.33	101.55	35.78	
	06/19/06	137.33	104.32	33.01	
	09/25/06	137.33	111.42	25.91	
	12/12/06	137.33	108.30	29.03	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-23	03/12/07	137.33	113.48	23.85	
(Cont'd)	06/18/07	137.33	125.48	11.85	
	09/24/07	137.33	144.94	-7.61	
	12/10/07	137.33	150.40	-13.07	
	12/20/07	137.33	150.23	-12.90	
	03/17/08	137.33	145.00	-7.67	
	04/21/08	137.33	145.50	-8.17	
	06/23/08	137.33	150.33	-13.00	
	08/26/08	137.33	166.71	-29.38	
	09/22/08	137.33	158.58	-21.25	
	12/15/08	137.33	158.48	-21.15	
	03/16/09	137.33	146.43	-9.10	
	06/23/09	137.33	147.50	-10.17	
	08/31/09	137.33	151.58	-14.25	
	10/23/09	137.33	148.44	-11.11	
	10/30/09	137.33	147.82	-10.49	
	11/04/09	137.33	147.40	-10.07	
	12/07/09	137.33	145.18	-7.85	
	03/01/10	137.33	140.52	-3.19	
	03/02/10	137.33	140.20	-2.87	
	06/07/10	137.33	134.30	3.03	
	09/07/10	137.33	140.90	-3.57	
	12/06/10	137.33	139.15	-1.82	
	03/15/11	137.33	123.40	13.93	
	03/24/11	137.33	124.57	12.76	
	06/20/11	137.33	121.15	16.18	
	08/01/11	137.33	122.97	14.36	
	08/05/11	137.33	123.90	13.43	
	10/31/11	137.33	120.60	16.73	
	01/13/12	137.33	114.41	22.92	
	01/26/12	137.33	113.42	23.91	
	02/06/12	137.33	113.49	23.84	
	05/07/12	137.33	106.79	30.54	
	06/08/12	137.33	112.15	25.18	
	06/26/12	137.33	111.39	25.94	
	08/06/12	137.33	119.31	18.02	
	11/05/12	137.33	125.95	11.38	
	02/04/13	137.33	118.72	18.61	
	05/13/13	137.33	119.47	17.86	
	08/12/13	137.33	135.83	1.50	
	09/18/13	137.33	140.36	-3.03	
	11/11/13	137.33	136.76	0.57	
	02/03/14	137.33	128.32	9.01	
	05/19/14	137.33	138.79	-1.46	
	08/18/14	137.33	150.88	-13.55	
	11/04/14	137.33	152.51	-15.18	
	02/02/15	137.33	135.90	1.43	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-23	05/11/15	137.33	136.04	1.29	
(Cont'd)	08/10/15	137.33	143.28	-5.95	
	11/02/15	137.33	141.25	-3.92	
	02/01/16	137.33	133.10	4.23	
	05/02/16	137.33	138.15	-0.82	
	08/01/16	137.33	144.41	-7.08	
	11/07/16	137.33	144.88	-7.55	
	02/06/17	137.33	129.45	7.88	
	05/15/17	137.33	128.05	9.28	
	08/07/17	137.33	134.55	2.78	
	11/06/17	137.33	114.49	22.84	
	02/26/18	137.33	110.54	26.79	
	05/07/18	137.33	115.67	21.66	
	08/20/18	137.33	126.68	10.65	
	11/06/18	137.33	129.36	7.97	
	02/11/19	137.33	119.25	18.08	
MW-24	09/23/04	142.83	139.35	3.48	
	10/19/04	142.83	141.09	1.74	
	11/10/04	142.83	140.60	2.23	
	12/06/04	142.83	139.34	3.49	
	03/14/05	142.83	129.12	13.71	
	06/20/05	142.83	124.62	18.21	
	07/13/05	142.83	124.60	18.23	
	09/19/05	142.83	127.51	15.32	
	09/21/05	142.83	127.00	15.83	
	12/17/05	142.83	118.37	24.46	
	12/19/05	142.83	118.32	24.51	
	03/20/06	142.83	109.25	33.58	
	06/19/06	142.83	107.30	35.53	
	09/25/06	142.83	115.04	27.79	
	10/05/06	142.83	115.35	27.48	
	12/11/06	142.83	113.61	29.22	
	03/12/07	142.83	111.60	31.23	
	06/18/07	142.83	118.08	24.75	
	09/24/07	142.83	135.15	7.68	
	12/10/07	142.83	143.56	-0.73	
	03/17/08	142.83	143.70	-0.87	
	06/23/08	142.83	145.17	-2.34	
	07/11/08	142.83	146.50	-3.67	
	07/14/08	142.83	146.72	-3.89	
	07/15/08	142.83	146.84	-4.01	
	09/22/08	142.83	151.29	-8.46	
	10/22/08	142.83	152.72	-9.89	
	12/15/08	142.83	154.29	-11.46	
	12/19/08	142.83	154.81	-11.98	
	02/25/09	142.83	153.94	-11.11	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-24	03/16/09	142.83	152.94	-10.11	
(Cont'd)	03/18/09	142.83	152.55	-9.72	
	05/27/09	142.83	150.38	-7.55	
	06/22/09	142.83	150.37	-7.54	
	06/26/09	142.83	150.42	-7.59	
	08/31/09	142.83	152.31	-9.48	
	09/10/09	142.83	152.59	-9.76	
	12/07/09	142.83	152.04	-9.21	
	02/10/10	142.83	149.58	-6.75	
	02/12/10	142.83	149.53	-6.70	
	03/01/10	142.83	148.54	-5.71	
	03/03/10	142.83	148.32	-5.49	
	06/07/10	142.83	142.20	0.63	
	09/07/10	142.83	143.41	-0.58	
	12/06/10	142.83	142.45	0.38	
	03/24/11	142.83	132.13	10.70	
	06/20/11	142.83	127.36	15.47	
	08/01/11	142.83	124.12	18.71	
	08/05/11	142.83	123.84	18.99	
	10/31/11	142.83	117.61	25.22	
	02/06/12	142.83	112.65	30.18	
	05/07/12	142.83	110.05	32.78	
	06/26/12	142.83	111.97	30.86	
	08/06/12	142.83	115.85	26.98	
	11/05/12	142.83	123.08	19.75	
	12/10/12	142.83	122.41	20.42	
	02/04/13	142.83	119.55	23.28	
	05/13/13	142.83	116.68	26.15	
	08/12/13	142.83	128.32	14.51	
	09/18/13	142.83	132.62	10.21	
	11/11/13	142.83	136.09	6.74	
	02/03/14	142.83	134.50	8.33	
	05/19/14	142.83	136.72	6.11	
	08/18/14	142.83	144.45	-1.62	
	11/04/14	142.83	149.10	-6.27	
	02/02/15	142.83	144.46	-1.63	
	05/11/15	142.83	139.86	2.97	
	08/10/15	142.83	140.92	1.91	
	11/02/15	142.83	142.56	0.27	
	02/01/16	142.83	139.57	3.26	
	05/02/16	142.83	137.30	5.53	
	08/01/16	142.83	139.10	3.73	
	11/07/16	142.83	142.40	0.43	
	02/06/17	142.83	137.95	4.88	
	05/15/17	142.83	130.55	12.28	
	08/07/17	142.83	131.00	11.83	
	11/06/17	142.83	119.80	23.03	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-24	02/26/18	142.83	109.84	32.99	
(Cont'd)	05/07/18	142.83	112.53	30.30	
	08/20/18	142.83	118.02	24.81	
	11/06/18	142.83	122.04	20.79	
	02/11/19	142.83	119.46	23.37	
MW-25	09/20/04	142.64	152.87	-10.23	
	10/19/04	142.64	145.96	-3.32	
	11/10/04	142.64	143.60	-0.96	
	12/06/04	142.64	140.84	1.80	
	03/14/05	142.64	129.79	12.85	
	06/20/05	142.64	125.06	17.58	
	07/13/05	142.64	122.98	19.66	
	09/19/05	142.64	126.64	16.00	
	09/21/05	142.64	127.57	15.07	
	12/17/05	142.64	115.32	27.32	
	12/19/05	142.64	114.25	28.39	
	03/20/06	142.64	107.47	35.17	
	06/19/06	142.64	106.28	36.36	
	09/25/06	142.64	114.63	28.01	
	10/05/06	142.64	117.63	25.01	
	12/12/06	142.64	113.90	28.74	
	03/12/07	142.64	111.03	31.61	
	06/18/07	142.64	118.13	24.51	
	09/24/07	142.64	137.17	5.47	
	12/10/07	142.64	148.21	-5.57	
	12/20/07	142.64	151.34	-8.70	
	03/17/08	142.64	146.31	-3.67	
	06/23/08	142.64	147.94	-5.30	
	09/22/08	142.64	157.18	-14.54	
	10/22/08	142.64	158.43	-15.79	
	12/15/08	142.64	158.84	-16.20	
	12/19/08	142.64	158.79	-16.15	
	02/25/09	142.64	155.58	-12.94	
	03/16/09	142.64	153.43	-10.79	
	03/18/09	142.64	154.82	-12.18	
	05/27/09	142.64	150.45	-7.81	
	06/22/09	142.64	150.68	-8.04	
	06/26/09	142.64	151.00	-8.36	
	08/31/09	142.64	154.61	-11.97	
	09/10/09	142.64	154.66	-12.02	
	12/07/09	142.64	153.57	-10.93	
	03/01/10	142.64	146.59	-3.95	
	06/07/10	142.64	140.30	2.34	
	09/07/10	142.64	144.61	-1.97	
	12/06/10	142.64	141.89	0.75	
	03/24/11	142.64	125.44	17.20	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-25	06/20/11	142.64	125.12	17.52	
(Cont'd)	08/01/11	142.64	120.05	22.59	
	10/31/11	142.64	113.28	29.36	
	02/06/12	142.64	109.05	33.59	
	05/07/12	142.64	107.92	34.72	
	08/06/12	142.64	140.61	2.03	
	11/05/12	142.64	122.83	19.81	
	02/04/13	142.64	120.54	22.10	
	05/13/13	142.64	118.04	24.60	
	08/12/13	142.64	130.68	11.96	
	11/11/13	142.64	140.56	2.08	
	02/03/14	142.64	136.95	5.69	
	05/19/14	142.64	139.46	3.18	
	08/18/14	142.64	149.70	-7.06	
	11/04/14	142.64	154.67	-12.03	
	02/02/15	142.64	143.28	-0.64	
	05/11/15	142.64	138.82	3.82	
	08/10/15	142.64	142.09	0.55	
	11/02/15	142.64	144.77	-2.13	
	02/01/16	142.64	139.49	3.15	
	05/02/16	142.64	137.12	5.52	
	08/01/16	142.64	140.58	2.06	
	11/07/16	142.64	145.72	-3.08	
	02/06/17	142.64	136.69	5.95	
	05/15/17	142.64	128.40	14.24	
	08/07/17	142.64	131.00	11.64	
	11/06/17	142.64	114.55	28.09	
	02/26/18	142.64	108.85	33.79	
	05/07/18	142.64	112.12	30.52	
	08/20/18	142.64	118.63	24.01	
	11/06/18	142.64	123.62	19.02	
	02/11/19	142.64	121.57	21.07	
MW-26A	10/19/04	137.30	135.45	1.85	
	11/10/04	137.30	135.59	1.71	
	12/06/04	137.30	135.06	2.24	
	03/14/05	137.30	127.74	9.56	
	06/20/05	137.30	125.41	11.89	
	07/13/05	137.30	125.00	12.30	
	09/19/05	137.30	127.22	10.08	
	09/21/05	137.30	127.31	9.99	
	12/17/05	137.30	121.44	15.86	
	12/19/05	137.30	121.35	15.95	
	02/24/06	137.30	113.15	24.15	
	03/20/06	137.30	112.18	25.12	
	05/18/06	137.30	107.48	29.82	
	06/19/06	137.30	106.50	30.80	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-26A (Cont'd)	09/25/06	137.30	108.81	28.49	
	12/12/06	137.30	108.94	28.36	
	03/12/07	137.30	110.51	26.79	
	06/18/07	137.30	115.63	21.67	
	09/24/07	137.30	129.55	7.75	
	12/10/07	137.30	138.57	-1.27	
	12/20/07	137.30	139.55	-2.25	
	12/20/07	137.30	139.52	-2.22	
	01/21/08	137.30	141.21	-3.91	
	03/17/08	137.30	142.09	-4.79	
	04/21/08	137.30	142.34	-5.04	
	05/27/08	137.04	142.91	-5.87	
	06/23/08	137.04	144.94	-7.90	
	08/26/08	137.04	147.75	-10.71	
	09/22/08	137.04	149.54	-12.50	
	12/15/08	137.04	153.18	-16.14	
	03/16/09	137.04	151.38	-14.34	
	06/22/09	137.04	147.67	-10.63	
	08/31/09	137.04	150.21	-13.17	
	10/13/09	137.04	150.44	-13.40	
	10/30/09	137.04	149.92	-12.88	
	12/07/09	137.04	148.20	-11.16	
	03/01/10	137.04	145.68	-8.64	
	03/02/10	137.04	145.53	-8.49	
	03/22/10	137.04	144.06	-7.02	
	06/07/10	137.04	139.28	-2.24	
	09/07/10	137.04	139.18	-2.14	
	12/06/10	137.04	140.17	-3.13	
	03/24/11	137.04	130.88	6.16	
	06/20/11	137.04	126.68	10.36	
	08/01/11	137.04	125.09	11.95	
	10/31/11	137.04	122.65	14.39	
	02/06/12	137.04	117.96	19.08	
	05/07/12	137.04	112.82	24.22	
	08/06/12	137.04	114.42	22.62	
	11/05/12	137.04	120.59	16.45	
	02/04/13	137.04	119.79	17.25	
	05/13/13	137.04	117.02	20.02	
	08/12/13	137.04	125.12	11.92	
	11/11/13	137.04	133.05	3.99	
	02/03/14	137.04	130.15	6.89	
	05/19/14	137.04	131.02	6.02	
	08/18/14	137.04	139.88	-2.84	
	11/04/14	137.04	145.58	-8.54	
	02/02/15	137.04	141.81	-4.77	
	05/11/15	137.04	136.24	0.80	
	08/10/15	137.04	138.91	-1.87	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-26A	11/02/15	137.04	141.10	-4.06	
(Cont'd)	02/01/16	137.04	137.83	-0.79	
	05/02/16	137.04	136.06	0.98	
	08/01/16	137.04	139.86	-2.82	
	11/07/16	137.04	142.78	-5.74	
	02/06/17	137.04	136.55	0.49	
	05/15/17	137.04	129.94	7.10	
	08/07/17	137.04	132.07	4.97	
	11/06/17	137.04	126.20	10.84	
	02/26/18	137.04	113.57	23.47	
	05/07/18	137.04	113.88	23.16	
	08/20/18	137.04	119.51	17.53	
	11/06/18	137.04	123.48	13.56	
	02/11/19	137.04	122.35	14.69	
MW-26B	10/19/04	137.20	136.23	0.97	
	11/10/04	137.20	136.16	1.04	
	12/06/04	137.20	136.02	1.18	
	03/14/05	137.20	131.73	5.47	
	06/20/05	137.20	129.29	7.91	
	07/13/05	137.20	129.00	8.20	
	09/19/05	137.20	129.99	7.21	
	09/21/05	137.20	130.07	7.13	
	12/17/05	137.20	126.53	10.67	
	12/19/05	137.20	126.58	10.62	
	02/24/06	137.20	119.78	17.42	
	03/20/06	137.20	118.22	18.98	
	06/19/06	137.20	110.17	27.03	
	09/25/06	137.20	110.84	26.36	
	10/05/06	137.20	111.20	26.00	
	12/12/06	137.20	111.31	25.89	
	03/12/07	137.20	113.61	23.59	
	06/18/07	137.20	117.50	19.70	
	09/24/07	137.20	127.68	9.52	
	12/10/07	137.20	135.82	1.38	
	12/20/07	137.20	136.85	0.35	
	12/20/07	137.20	136.78	0.42	
	01/21/08	137.20	139.21	-2.01	
	03/17/08	137.20	142.10	-4.90	
	05/27/08	137.05	144.96	-7.91	
	06/23/08	137.05	146.29	-9.24	
	08/26/08	137.05	150.28	-13.23	
	09/22/08	137.05	151.94	-14.89	
	12/15/08	137.05	155.64	-18.59	
	12/19/08	137.05	156.13	-19.08	
	03/16/09	137.05	155.53	-18.48	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-26B (Cont'd)	03/18/09	137.05	155.16	-18.11	
	06/22/09	137.05	152.80	-15.75	
	08/31/09	137.05	154.60	-17.55	
	09/10/09	137.05	154.60	-17.55	
	10/13/09	137.05	154.75	-17.70	
	10/14/09	137.05	154.80	-17.75	
	10/30/09	137.05	154.41	-17.36	
	12/07/09	137.05	153.17	-16.12	
	02/10/10	137.05	151.63	-14.58	
	03/01/10	137.05	151.04	-13.99	
	03/02/10	137.05	150.90	-13.85	
	05/07/10	137.05	145.37	-8.32	
	06/07/10	137.05	146.22	-9.17	
	09/07/10	137.05	144.57	-7.52	
	12/06/10	137.05	144.78	-7.73	
	03/24/11	137.05	138.67	-1.62	
	06/20/11	137.05	134.45	2.60	
	08/01/11	137.05	132.83	4.22	
	08/05/11	137.05	132.55	4.50	
	10/31/11	137.05	129.89	7.16	
	02/06/12	137.05	125.63	11.42	
	05/07/12	137.05	120.17	16.88	
	08/06/12	137.05	118.61	18.44	
	11/05/12	137.05	122.68	14.37	
	02/04/13	137.05	123.42	13.63	
	05/13/13	137.05	121.73	15.32	
	08/12/13	137.05	126.75	10.30	
	11/11/13	137.05	133.00	4.05	
	02/03/14	137.05	133.00	4.05	
	05/19/14	137.05	133.93	3.12	
	08/18/14	137.05	139.80	-2.75	
	11/04/14	137.05	145.01	-7.96	
	02/02/15	137.05	144.52	-7.47	
	05/11/15	137.05	141.11	-4.06	
	08/10/15	137.05	142.91	-5.86	
	11/02/15	137.05	143.49	-6.44	
	02/01/16	137.05	140.75	-3.70	
	05/02/16	137.05	140.25	-3.20	
	08/01/16	137.05	142.03	-4.98	
	11/07/16	137.05	144.57	-7.52	
	02/06/17	137.05	142.89	-5.84	
	05/15/17	137.05	136.91	0.14	
	08/07/17	137.05	138.38	-1.33	
	11/06/17	137.05	132.05	5.00	
	02/26/18	137.05	120.25	16.80	
	05/07/18	137.05	117.37	19.68	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-26B	08/20/18	137.05	118.95	18.10	
(Cont'd)	11/06/18	137.05	121.44	15.61	
	02/11/19	137.05	122.14	14.91	
MW-26C	10/19/04	137.28	141.81	-4.53	
	11/10/04	137.28	139.83	-2.55	
	12/06/04	137.28	135.90	1.38	
	03/14/05	137.28	121.75	15.53	
	06/20/05	137.28	128.11	9.17	
	07/13/05	137.28	125.75	11.53	
	09/19/05	137.28	137.35	-0.07	
	09/21/05	137.28	137.45	-0.17	
	12/17/05	137.28	112.48	24.80	
	12/19/05	137.28	112.30	24.98	
	03/20/06	137.28	109.21	28.07	
	06/19/06	137.28	104.32	32.96	
	09/25/06	137.28	113.96	23.32	
	10/05/06	137.28	114.08	23.20	
	12/12/06	137.28	111.13	26.15	
	03/12/07	137.28	119.52	17.76	
	06/18/07	137.28	130.71	6.57	
	09/24/07	137.28	153.19	-15.91	
	12/10/07	137.28	160.43	-23.15	
	12/20/07	137.28	160.88	-23.60	
	01/21/08	137.28	157.99	-20.71	
	02/21/08	137.28	155.52	-18.24	
	03/17/08	137.28	154.73	-17.45	
	04/21/08	137.28	155.21	-17.93	
	05/27/08	137.06	158.25	-21.19	
	06/10/08	137.06	159.70	-22.64	
	06/23/08	137.06	161.15	-24.09	
	07/16/08	137.06	164.52	-27.46	
	08/26/08	137.06	169.10	-32.04	
	09/22/08	137.06	170.89	-33.83	
	10/22/08	137.06	171.58	-34.52	
	12/15/08	137.06	169.04	-31.98	
	12/19/08	137.06	169.36	-32.30	
	01/07/09	137.06	163.22	-26.16	
	03/16/09	137.06	153.10	-16.04	
	03/18/09	137.06	152.44	-15.38	
	04/29/09	137.06	148.57	-11.51	
	06/22/09	137.06	152.47	-15.41	
	06/26/09	137.06	155.40	-18.34	
	08/31/09	137.06	158.68	-21.62	
	09/10/09	137.06	161.04	-23.98	
	10/13/09	137.06	156.48	-19.42	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-26C	10/14/09	137.06	156.42	-19.36	
(Cont'd)	10/23/09	137.06	154.73	-17.67	
	10/30/09	137.06	154.12	-17.06	
	11/04/09	137.06	153.77	-16.71	
	12/07/09	137.06	150.92	-13.86	
	01/19/10	137.06	149.68	-12.62	
	02/10/10	137.06	145.81	-8.75	
	02/12/10	137.06	145.52	-8.46	
	03/01/10	137.06	143.18	-6.12	
	03/02/10	137.06	143.02	-5.96	
	06/07/10	137.06	140.37	-3.31	
	07/30/10	137.06	144.04	-6.98	
	09/07/10	137.22	147.97	-10.75	
	12/06/10	137.22	145.78	-8.56	
	03/01/11	137.22	128.33	8.89	
	03/24/11	137.22	130.31	6.91	
	03/25/11	137.22	129.76	7.46	
	06/20/11	137.22	125.03	12.19	
	06/23/11	137.22	125.92	11.30	
	08/01/11	137.22	127.39	9.83	
	08/05/11	137.22	127.92	9.30	
	10/31/11	137.22	125.34	11.88	
	11/01/11	137.22	125.37	11.85	
	02/06/12	137.22	117.23	19.99	
	03/09/12	137.22	115.08	22.14	
	05/07/12	137.22	110.60	26.62	
	05/09/12	137.22	110.74	26.48	
	08/06/12	137.22	124.94	12.28	
	11/05/12	137.22	134.41	2.81	
	02/04/13	137.22	126.26	10.96	
	05/13/13	137.22	126.58	10.64	
	08/12/13	137.22	145.20	-7.98	
	09/18/13	137.22	150.32	-13.10	
	11/11/13	137.22	145.09	-7.87	
	02/03/14	137.22	137.00	0.22	
	05/19/14	137.22	144.05	-6.83	
	08/18/14	137.22	157.33	-20.11	
	11/06/14	137.22	160.01	-22.79	
	02/02/15	137.22	142.08	-4.86	
	05/11/15	137.22	140.94	-3.72	
	08/10/15	137.22	148.41	-11.19	
	11/02/15	137.22	147.19	-9.97	
	02/01/16	137.22	139.00	-1.78	
	05/02/16	137.22	142.49	-5.27	
	08/01/16	137.22	148.45	-11.23	
	11/07/16	137.22	150.54	-13.32	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-26C (Cont'd)	02/06/17	137.22	133.66	3.56	
	05/15/17	137.22	130.23	6.99	
	08/07/17	137.22	137.19	0.03	
	11/06/17	137.22	114.02	23.20	
	02/26/18	137.22	110.90	26.32	
	05/07/18	137.22	112.96	24.26	
	08/20/18	137.22	121.06	16.16	
	11/06/18	137.22	124.60	12.62	
	02/11/19	137.22	117.85	19.37	
MW-27	05/27/08	137.16	157.80	-20.64	
	06/10/08	137.16	159.22	-22.06	
	06/23/08	137.16	160.75	-23.59	
	07/16/08	137.16	164.03	-26.87	
	08/26/08	137.16	168.65	-31.49	
	09/22/08	137.16	170.52	-33.36	
	10/22/08	137.16	171.19	-34.03	
	12/15/08	137.16	168.92	-31.76	
	12/19/08	137.16	169.05	-31.89	
	01/07/09	137.16	163.06	-25.90	
	03/16/09	137.16	153.24	-16.08	
	03/18/09	137.16	152.49	-15.33	
	04/29/09	137.16	148.59	-11.43	
	06/22/09	137.16	152.42	-15.26	
	06/24/09	137.16	154.08	-16.92	
	08/31/09	137.16	158.65	-21.49	
	09/10/09	137.16	160.81	-23.65	
	10/13/09	137.16	156.43	-19.27	
	10/14/09	137.16	156.35	-19.19	
	10/23/09	137.16	154.73	-17.57	
	10/30/09	137.16	154.10	-16.94	
	11/04/09	137.16	153.77	-16.61	
	12/07/09	137.16	150.98	-13.82	
	01/19/10	137.16	149.60	-12.44	
	03/01/10	137.16	143.25	-6.09	
	03/02/10	137.16	143.05	-5.89	
	06/07/10	137.16	139.74	-2.58	
	07/30/10	137.16	143.73	-6.57	
	09/07/10	137.16	147.75	-10.59	
	12/06/10	137.16	145.39	-8.23	
	03/01/11	137.16	127.65	9.51	
	03/24/11	137.16	129.57	7.59	
	06/20/11	137.16	124.36	12.80	
	08/01/11	137.16	126.64	10.52	
	08/05/11	137.16	127.08	10.08	
	10/31/11	137.16	124.43	12.73	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-27	05/07/12	137.16	110.03	27.13	
(Cont'd)	08/06/12	137.16	124.18	12.98	
	11/05/12	137.16	134.75	2.41	
	02/04/13	137.16	125.54	11.62	
	05/13/13	137.16	125.99	11.17	
	07/18/13	137.16	139.72	-2.56	
	07/19/13	137.16	139.21	-2.05	
	08/12/13	137.16	144.52	-7.36	
	11/11/13	137.16	144.52	-7.36	
	02/03/14	137.16	136.72	0.44	
	05/19/14	137.16	143.71	-6.55	
	08/18/14	137.16	157.02	-19.86	
	11/04/14	137.16	159.09	-21.93	
	02/02/15	137.16	141.44	-4.28	
	05/11/15	137.16	140.17	-3.01	
	08/10/15	137.16	148.66	-11.50	
	11/02/15	137.16	146.73	-9.57	
	02/01/16	137.16	138.50	-1.34	
	05/02/16	137.16	141.80	-4.64	
	08/01/16	137.16	147.71	-10.55	
	11/07/16	137.16	149.93	-12.77	
	02/06/17	137.16	133.13	4.03	
	05/15/17	137.16	129.91	7.25	
	08/07/17	137.16	136.40	0.76	
	11/06/17	137.16	113.41	23.75	
	02/26/18	137.16	110.37	26.79	
	05/07/18	137.16	112.49	24.67	
	08/20/18	137.16	120.61	16.55	
	11/06/18	137.16	124.26	12.90	
	02/11/19	137.16	117.39	19.77	
MW-28	05/16/08	140.77	160.41	-19.64	
	05/27/08	140.77	161.69	-20.92	
	06/10/08	140.77	163.08	-22.31	
	06/23/08	140.77	164.55	-23.78	
	07/16/08	140.77	167.88	-27.11	
	08/26/08	140.77	174.46	-33.69	
	09/22/08	140.77	174.45	-33.68	
	10/22/08	140.77	175.11	-34.34	
	12/15/08	140.77	172.87	-32.10	
	12/19/08	140.77	172.97	-32.20	
	01/07/09	140.77	166.82	-26.05	
	03/16/09	140.77	157.25	-16.48	
	03/18/09	140.77	156.45	-15.68	
	04/29/09	140.77	152.49	-11.72	
	06/22/09	140.77	156.45	-15.68	
	06/24/09	140.77	157.74	-16.97	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-28	08/31/09	140.77	162.68	-21.91	
(Cont'd)	09/10/09	140.77	164.54	-23.77	
	10/13/09	140.77	160.35	-19.58	
	10/14/09	140.77	160.32	-19.55	
	10/23/09	140.77	158.57	-17.80	
	10/30/09	140.77	158.02	-17.25	
	11/04/09	140.77	157.61	-16.84	
	12/07/09	140.77	154.74	-13.97	
	01/19/10	140.77	153.63	-12.86	
	03/01/10	140.77	147.29	-6.52	
	03/04/10	140.77	146.78	-6.01	
	03/04/10	140.77	146.80	-6.03	
	06/07/10	140.77	143.98	-3.21	
	07/30/10	140.77	147.43	-6.66	
	09/07/10	140.77	151.67	-10.90	
	12/06/10	140.77	149.96	-9.19	
	03/01/11	140.77	132.48	8.29	
	03/24/11	140.77	133.95	6.82	
	06/20/11	140.77	129.10	11.67	
	08/01/11	140.77	131.02	9.75	
	08/05/11	140.77	131.37	9.40	
	10/31/11	140.77	129.07	11.70	
	02/06/12	140.77	120.98	19.79	
	05/07/12	140.77	114.45	26.32	
	08/06/12	140.77	128.07	12.70	
	11/05/12	140.77	138.26	2.51	
	02/04/13	140.77	130.17	10.60	
	05/13/13	140.77	129.64	11.13	
	08/12/13	140.77	148.39	-7.62	
	11/11/13	140.77	149.28	-8.51	
	02/03/14	140.77	140.85	-0.08	
	05/19/14	140.77	147.00	-6.23	
	08/18/14	140.77	160.73	-19.96	
	11/04/14	140.77	163.51	-22.74	
	02/02/15	140.77	146.56	-5.79	
	05/11/15	140.77	144.46	-3.69	
	08/10/15	140.77	152.96	-12.19	
	11/02/15	140.77	151.25	-10.48	
	02/01/16	140.77	143.00	-2.23	
	05/02/16	140.77	146.00	-5.23	
	08/01/16	140.77	152.25	-11.48	
	11/07/16	140.77	154.36	-13.59	
	02/06/17	140.77	138.07	2.70	
	05/15/17	140.77	133.85	6.92	
	08/07/17	140.77	140.99	-0.22	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-28	11/06/17	140.77	118.60	22.17	
(Cont'd)	02/26/18	140.77	114.20	26.57	
	05/07/18	140.77	116.41	24.36	
	08/20/18	140.77	124.70	16.07	
	11/06/18	140.77	128.31	12.46	
	02/11/19	140.77	122.10	18.67	
MW-29	08/15/08	142.21	174.90	-32.69	
	08/19/08	142.21	174.44	-32.23	
	08/26/08	142.21	175.21	-33.00	
	09/22/08	142.21	177.31	-35.10	
	10/22/08	142.21	178.13	-35.92	
	12/15/08	142.34	176.26	-33.92	
	01/07/09	142.34	170.00	-27.66	
	03/16/09	142.34	160.00	-17.66	
	03/18/09	142.34	159.22	-16.88	
	04/29/09	142.34	154.91	-12.57	
	06/22/09	142.34	158.97	-16.63	
	06/24/09	142.34	159.99	-17.65	
	08/31/09	142.34	165.42	-23.08	
	09/10/09	142.34	167.01	-24.67	
	10/13/09	142.34	162.76	-20.42	
	10/14/09	142.34	162.78	-20.44	
	10/23/09	142.34	161.07	-18.73	
	10/30/09	142.34	160.59	-18.25	
	11/04/09	142.34	160.05	-17.71	
	12/07/09	142.34	156.92	-14.58	
	01/19/10	142.34	156.32	-13.98	
	03/01/10	142.34	149.84	-7.50	
	03/04/10	142.34	149.36	-7.02	
	06/07/10	142.34	146.45	-4.11	
	07/30/10	142.34	149.78	-7.44	
	09/07/10	142.34	154.30	-11.96	
	12/06/10	142.34	153.12	-10.78	
	03/01/11	142.34	135.43	6.91	
	03/24/11	142.34	136.86	5.48	
	03/30/11	142.34	135.81	6.53	
	06/20/11	142.34	131.87	10.47	
	08/01/11	142.34	134.23	8.11	
	08/05/11	142.34	134.61	7.73	
	10/31/11	142.34	132.65	9.69	
	02/06/12	142.34	124.12	18.22	
	05/07/12	142.34	117.12	25.22	
	08/06/12	142.34	130.62	11.72	
	11/05/12	142.34	141.32	1.02	
	02/04/13	142.34	133.48	8.86	
	05/13/13	142.34	132.32	10.02	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-29	08/12/13	142.34	151.61	-9.27	
(Cont'd)	11/11/13	142.34	152.45	-10.11	
	02/03/14	142.34	143.46	-1.12	
	05/19/14	139.81	146.85	-7.04	
	08/18/14	139.81	160.95	-21.14	
	11/03/14	139.81	193.62	-53.81	
	11/04/14	139.81	195.90	-56.09	
	12/18/14	139.81	185.78	-45.97	
	01/19/15	139.81	189.18	-49.37	
	02/02/15	139.81	184.72	-44.91	
	03/06/15	139.81	175.40	-35.59	
	04/02/15	139.81	161.82	-22.01	
	05/11/15	139.81	178.13	-38.32	
	06/05/15	139.81	181.84	-42.03	
	07/14/15	139.81	194.02	-54.21	
	08/10/15	139.81	198.29	-58.48	
	09/03/15	139.81	180.70	-40.89	
	10/06/15	139.81	172.43	-32.62	
	11/02/15	139.81	176.00	-36.19	
	12/03/15	139.81	149.42	-9.61	Pilot GETS
	01/07/16	139.81	179.58	-39.77	Pilot GETS
	02/01/16	139.81	178.67	-38.86	Pilot GETS
	03/03/16	139.81	179.50	-39.69	Pilot GETS
	04/05/16	139.81	177.86	-38.05	Pilot GETS
	05/02/16	139.81	182.82	-43.01	Pilot GETS
	06/01/16	139.81	187.60	-47.79	Pilot GETS
	06/16/16	139.81	190.92	-51.11	Pilot GETS
	07/07/16	139.81	192.24	-52.43	Pilot GETS
	07/21/16	139.81	191.95	-52.14	Pilot GETS
	08/01/16	139.81	193.48	-53.67	Pilot GETS
	08/18/16	139.81	194.13	-54.32	Pilot GETS
	09/08/16	139.81	195.61	-55.80	Pilot GETS
	09/15/16	139.81	196.42	-56.61	Pilot GETS
	10/06/16	139.81	198.76	-58.95	Pilot GETS
	10/20/16	139.81	202.31	-62.50	Pilot GETS
	11/01/16	139.81	201.90	-62.09	Pilot GETS
	11/07/16	139.81	201.70	-61.89	Pilot GETS
	12/01/16	139.81	192.87	-53.06	Pilot GETS
	12/15/16	139.81	192.50	-52.69	Pilot GETS
	01/06/17	139.81	193.28	-53.47	Pilot GETS
	01/26/17	139.81	186.95	-47.14	Pilot GETS
	02/06/17	139.81	180.00	-40.19	Pilot GETS
	02/16/17	139.81	184.04	-44.23	Pilot GETS
	03/02/17	139.81	188.91	-49.10	Pilot GETS
	03/16/17	139.81	196.57	-56.76	Pilot GETS
	04/06/17	139.81	174.24	-34.43	Pilot GETS
	04/20/17	139.81	175.76	-35.95	Pilot GETS

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-29	05/17/17	139.81	134.34	5.47	Pilot GETS
(Cont'd)	06/15/17	139.81	177.51	-37.70	Pilot GETS
	07/06/17	139.81	176.59	-36.78	Pilot GETS
	07/20/17	139.81	184.21	-44.40	Pilot GETS
	08/03/17	139.81	187.52	-47.71	Pilot GETS
	08/07/17	139.81	183.51	-43.70	Pilot GETS
	08/17/17	139.81	140.54	-0.73	Pilot GETS
	09/01/17	139.81	184.41	-44.60	Pilot GETS
	09/14/17	139.81	185.91	-46.10	Pilot GETS
	10/19/17	139.81	171.52	-31.71	Pilot GETS
	11/06/17	139.81	155.05	-15.24	Pilot GETS
	11/20/17	139.81	150.06	-10.25	Pilot GETS
	12/04/17	139.81	149.62	-9.81	Pilot GETS
	12/14/17	139.81	173.97	-34.16	Pilot GETS
	01/04/18	139.81	148.00	-8.19	Pilot GETS
	01/18/18	139.81	145.15	-5.34	Pilot GETS
	02/15/18	139.81	145.46	-5.65	Pilot GETS
	02/26/18	139.81	147.78	-7.97	Pilot GETS
	05/03/18	139.81	145.68	-5.87	Pilot GETS
	05/07/18	139.81	147.62	-7.81	Pilot GETS
	05/17/18	139.81	150.37	-10.56	Pilot GETS
	06/07/18	139.81	152.53	-12.72	Pilot GETS
	07/05/18	139.81	155.82	-16.01	Pilot GETS
	07/19/18	139.81	157.95	-18.14	Pilot GETS
	08/02/18	139.81	148.57	-8.76	Pilot GETS
	08/16/18	139.81	161.33	-21.52	Pilot GETS
	08/20/18	139.81	161.02	-21.21	Pilot GETS
	09/20/18	139.81	166.90	-27.09	Pilot GETS
	10/05/18	139.81	168.92	-29.11	Pilot GETS
	10/18/18	139.81	127.00	12.81	
	11/01/18	139.81	127.78	12.03	
	11/06/18	139.81	127.88	11.93	
	11/15/18	139.81	180.96	-41.15	Pilot GETS
	12/04/18	139.81	177.44	-37.63	Pilot GETS
	12/19/18	139.81	179.53	-39.72	Pilot GETS
	01/03/19	139.81	187.40	-47.59	Pilot GETS
	01/24/19	139.81	176.92	-37.11	Pilot GETS
	02/07/19	139.81	171.46	-31.65	Pilot GETS
	02/11/19	139.81	121.90	17.91	
	02/21/19	139.81	169.98	-30.17	Pilot GETS
MW-30A	12/04/08	129.44	164.15	-34.71	
	12/05/08	129.44	164.29	-34.85	
	12/15/08	129.44	162.77	-33.33	
	12/19/08	129.44	163.02	-33.58	
	01/07/09	129.44	156.65	-27.21	
	03/16/09	129.44	145.68	-16.24	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-30A	03/18/09	129.44	144.93	-15.49	
(Cont'd)	04/29/09	129.44	141.29	-11.85	
	06/22/09	129.44	145.32	-15.88	
	06/24/09	129.44	148.04	-18.60	
	08/31/09	129.44	151.45	-22.01	
	09/10/09	129.44	154.83	-25.39	
	10/13/09	129.44	149.24	-19.80	
	10/14/09	129.44	149.22	-19.78	
	10/23/09	129.44	147.49	-18.05	
	10/30/09	129.44	146.87	-17.43	
	11/04/09	129.44	146.56	-17.12	
	12/07/09	129.44	143.60	-14.16	
	01/19/10	129.44	142.52	-13.08	
	03/01/10	129.44	135.95	-6.51	
	03/03/10	129.44	135.69	-6.25	
	03/03/10	129.44	135.65	-6.21	
	06/07/10	129.44	133.44	-4.00	
	07/30/10	129.44	137.11	-7.67	
	09/07/10	129.44	140.90	-11.46	
	12/06/10	129.44	138.63	-9.19	
	03/01/11	129.44	120.97	8.47	
	03/15/11	129.44	123.10	6.34	
	03/24/11	129.44	123.64	5.80	
	06/20/11	129.44	117.99	11.45	
	08/01/11	129.44	121.07	8.37	
	08/05/11	129.44	121.58	7.86	
	10/31/11	129.44	119.19	10.25	
	02/06/12	129.44	110.70	18.74	
	05/07/12	129.44	103.59	25.85	
	08/06/12	129.44	119.04	10.40	
	11/05/12	129.44	127.77	1.67	
	01/03/13	129.44	119.71	9.73	
	02/04/13	129.44	119.49	9.95	
	05/13/13	129.44	121.67	7.77	
	08/12/13	129.44	139.38	-9.94	
	11/11/13	129.44	137.74	-8.30	
	02/03/14	129.44	129.96	-0.52	
	05/19/14	129.44	138.05	-8.61	
	08/18/14	129.44	151.26	-21.82	
	11/04/14	129.44	152.83	-23.39	
	02/02/15	129.44	134.73	-5.29	
	05/11/15	129.44	134.33	-4.89	
	08/10/15	129.44	142.97	-13.53	
	11/02/15	129.44	140.42	-10.98	
	02/01/16	129.44	131.93	-2.49	
	05/02/16	129.44	136.35	-6.91	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-30A	08/01/16	129.44	142.20	-12.76	
(Cont'd)	11/07/16	129.44	144.10	-14.66	
	02/06/17	129.44	126.51	2.93	
	05/15/17	129.44	124.06	5.38	
	08/07/17	129.44	130.95	-1.51	
	11/06/17	129.44	106.92	22.52	
	02/26/18	129.44	104.88	24.56	
	05/07/18	129.44	106.56	22.88	
	08/20/18	129.44	114.36	15.08	
	11/06/18	129.44	117.70	11.74	
	02/11/19	129.44	110.78	18.66	
MW-30B	12/04/08	129.39	160.82	-31.43	
	12/05/08	129.39	161.49	-32.10	
	12/15/08	129.39	160.27	-30.88	
	01/07/09	129.39	154.82	-25.43	
	03/16/09	129.39	144.60	-15.21	
	03/18/09	129.39	143.96	-14.57	
	04/29/09	129.39	141.03	-11.64	
	06/22/09	129.39	144.02	-14.63	
	06/24/09	129.39	147.85	-18.46	
	08/31/09	129.39	149.39	-20.00	
	09/10/09	129.39	154.06	-24.67	
	10/13/09	129.39	147.92	-18.53	
	10/14/09	129.39	147.93	-18.54	
	10/23/09	129.39	146.17	-16.78	
	10/30/09	129.39	145.42	-16.03	
	11/04/09	129.39	145.25	-15.86	
	12/07/09	129.39	142.39	-13.00	
	01/19/10	129.39	140.64	-11.25	
	03/01/10	129.39	134.60	-5.21	
	06/07/10	129.39	130.92	-1.53	
	09/07/10	129.39	136.39	-7.00	
	12/06/10	129.39	133.99	-4.60	
	03/15/11	129.39	122	7.39	
	03/24/11	129.39	121.97	7.42	
	06/20/11	129.39	115.40	13.99	
	08/01/11	129.39	118.29	11.10	
	08/05/11	129.39	119.13	10.26	
	10/31/11	129.39	116.07	13.32	
	01/20/12	129.39	109.57	19.82	
	02/06/12	129.39	109.28	20.11	
	05/07/12	129.39	101.72	27.67	
	08/06/12	129.39	115.80	13.59	
	11/05/12	129.39	122.38	7.01	
	01/03/13	129.39	115.74	13.65	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-30B	01/09/13	129.39	116.81	12.58	
(Cont'd)	02/04/13	129.39	115.71	13.68	
	05/13/13	129.39	118.10	11.29	
	08/12/13	129.39	134.12	-4.73	
	11/11/13	129.39	132.03	-2.64	
	02/03/14	129.39	126.67	2.72	
	05/19/14	129.39	136.08	-6.69	
	08/18/14	129.39	147.46	-18.07	
	11/04/14	129.39	147.92	-18.53	
	02/02/15	129.39	131.23	-1.84	
	05/11/15	129.39	132.21	-2.82	
	08/10/15	129.39	138.88	-9.49	
	11/02/15	129.39	136.52	-7.13	
	02/01/16	129.39	129.12	0.27	
	05/02/16	129.39	133.68	-4.29	
	08/01/16	129.39	138.20	-8.81	
	11/07/16	129.39	140.60	-11.21	
	02/06/17	129.39	124.45	4.94	
	05/15/17	129.39	124.60	4.79	
	08/07/17	129.39	127.85	1.54	
	11/06/17	129.39	105.65	23.74	
	02/26/18	129.39	104.39	25.00	
	05/07/18	129.39	104.97	24.42	
	08/20/18	129.39	111.13	18.26	
	11/06/18	129.39	114.36	15.03	
	02/11/19	129.39	108.04	21.35	
MW-31	10/13/09	123.7	140.92	-17.2	
	10/14/09	123.7	140.85	-17.1	
	10/23/09	119.60	136.95	-17.35	
	10/30/09	119.60	136.26	-16.66	
	11/02/09	119.60	136.18	-16.58	
	12/07/09	119.60	133.45	-13.85	
	01/19/10	119.60	131.88	-12.28	
	02/12/10	119.60	127.51	-7.91	
	03/01/10	119.60	124.99	-5.39	
	03/03/10	119.60	125.04	-5.44	
	06/07/10	119.60	122.62	-3.02	
	07/30/10	119.60	126.69	-7.09	
	09/07/10	119.60	129.42	-9.82	
	12/06/10	119.60	125.45	-5.85	
	03/01/11	119.60	108.80	10.80	
	03/24/11	119.60	112.56	7.04	
	06/20/11	119.60	106.02	13.58	
	08/01/11	119.60	110.28	9.32	
	08/05/11	119.60	111.32	8.28	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-31	10/31/11	119.60	107.84	11.76	
(Cont'd)	02/06/12	119.60	99.66	19.94	
	05/07/12	119.60	92.21	27.39	
	08/06/12	119.60	109.72	9.88	
	11/05/12	119.60	116.38	3.22	
	02/04/13	119.60	107.58	12.02	
	05/13/13	119.60	111.61	7.99	
	07/18/13	119.60	125.45	-5.85	
	07/19/13	119.60	122.71	-3.11	
	08/12/13	119.60	129.49	-9.89	
	09/18/13	119.60	133.82	-14.22	
	11/11/13	119.60	124.85	-5.25	
	02/03/14	119.60	118.31	1.29	
	05/19/14	119.60	130.33	-10.73	
	08/18/14	119.60	142.35	-22.75	
	11/04/14	119.60	140.95	-21.35	
	02/02/15	119.60	121.32	-1.72	
	05/11/15	119.60	123.97	-4.37	
	08/10/15	119.60	131.82	-12.22	
	11/02/15	119.60	128.32	-8.72	
	02/01/16	119.60	120.24	-0.64	
	05/02/16	119.60	126.00	-6.40	
	08/01/16	119.60	130.85	-11.25	
	11/07/16	119.60	133.00	-13.40	
	02/06/17	119.60	113.84	5.76	
	05/15/17	119.60	114.78	4.82	
	08/07/17	119.60	119.61	-0.01	
	11/06/17	119.60	94.00	25.60	
	02/26/18	119.60	95.25	24.35	
	05/07/18	119.60	96.23	23.37	
	08/20/18	119.60	103.72	15.88	
	11/06/18	119.60	107.14	12.46	
	02/11/19	119.60	98.46	21.14	
MW-32A	01/04/10	92.88	110.20	-17.32	
	01/19/10	92.88	107.34	-14.46	
	02/10/10	92.88	101.90	-9.02	
	02/12/10	92.88	102.03	-9.15	
	03/01/10	92.88	99.24	-6.36	
	03/04/10	92.88	99.28	-6.40	
	06/07/10	92.88	97.01	-4.13	
	09/07/10	92.88	104.02	-11.14	
	12/06/10	92.88	100.08	-7.20	
	03/24/11	92.88	87.97	4.91	
	06/20/11	92.88	80.19	12.69	
	08/01/11	92.88	87.56	5.32	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-32A (Cont'd)	08/03/11	92.88	89.69	3.19	
	10/14/11	92.88	84.70	8.18	
	10/31/11	92.88	85.17	7.71	
	02/06/12	92.88	75.40	17.48	
	05/07/12	92.88	66.57	26.31	
	08/06/12	92.88	88.32	4.56	
	11/05/12	92.88	93.88	-1.00	
	02/04/13	92.88	83.24	9.64	
	05/13/13	92.88	89.69	3.19	
	08/12/13	92.88	108.43	-15.55	
	11/11/13	92.88	98.90	-6.02	
	12/10/13	92.88	93.03	-0.15	
	02/03/14	92.88	92.68	0.20	
	05/19/14	92.88	108.72	-15.84	
	08/18/14	92.88	120.55	-27.67	
	11/04/14	92.88	116.71	-23.83	
	02/02/15	92.88	94.87	-1.99	
	05/11/15	92.88	99.66	-6.78	
	08/10/15	92.88	108.42	-15.54	
	11/02/15	92.88	102.41	-9.53	
	02/01/16	92.88	93.82	-0.94	
	05/02/16	92.88	103.12	-10.24	
	08/01/16	92.88	107.97	-15.09	
	11/07/16	92.88	109.74	-16.86	
	02/06/17	92.88	87.50	5.38	
	05/15/17	92.88	91.71	1.17	
	08/07/17	92.88	96.50	-3.62	
	11/06/17	92.88	68.04	24.84	
	02/26/18	92.88	72.29	20.59	
	05/07/18	92.88	71.35	21.53	
	08/20/18	92.88	79.11	13.77	
	11/06/18	92.88	82.25	10.63	
	02/11/19	92.88	73.36	19.52	
MW-32B	01/04/10	92.89	109.29	-16.40	
	01/19/10	92.89	106.40	-13.51	
	02/10/10	92.89	101.75	-8.86	
	02/12/10	92.89	101.68	-8.79	
	03/01/10	92.89	99.18	-6.29	
	03/05/10	92.89	99.22	-6.33	
	05/07/10	92.89	94.21	-1.32	
	06/07/10	92.89	96.71	-3.82	
	07/30/10	92.89	100.91	-8.02	
	09/07/10	92.89	103.45	-10.56	
	12/06/10	92.89	99.75	-6.86	
	03/01/11	92.89	82.87	10.02	
	03/24/11	92.89	87.67	5.22	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-32B	06/20/11	92.89	80.34	12.55	
(Cont'd)	08/01/11	92.89	86.35	6.54	
	08/03/11	92.89	88.72	4.17	
	10/14/11	92.89	83.95	8.94	
	10/31/11	92.89	84.01	8.88	
	02/06/12	92.89	74.84	18.05	
	05/07/12	92.89	66.54	26.35	
	08/06/12	92.89	86.18	6.71	
	11/05/12	92.89	92.20	0.69	
	01/03/13	92.89	81.64	11.25	
	02/04/13	92.89	82.76	10.13	
	05/13/13	92.89	87.91	4.98	
	08/12/13	92.89	106.20	-13.31	
	11/11/13	92.89	98.62	-5.73	
	12/10/13	92.89	93.05	-0.16	
	02/03/14	92.89	92.55	0.34	
	05/19/14	92.89	106.96	-14.07	
	08/18/14	92.89	118.71	-25.82	
	11/04/14	92.89	116.03	-23.14	
	02/02/15	92.89	95.96	-3.07	
	05/11/15	92.89	99.45	-6.56	
	08/10/15	92.89	107.58	-14.69	
	11/02/15	92.89	102.39	-9.50	
	02/01/16	92.89	94.02	-1.13	
	05/02/16	92.89	102.73	-9.84	
	08/01/16	92.89	107.20	-14.31	
	11/07/16	92.89	109.15	-16.26	
	02/06/17	92.89	87.94	4.95	
	05/15/17	92.89	91.08	1.81	
	08/07/17	92.89	95.90	-3.01	
	11/06/17	92.89	68.70	24.19	
	02/26/18	92.89	71.41	21.48	
	05/07/18	92.89	70.75	22.14	
	08/20/18	92.89	78.35	14.54	
	11/06/18	92.89	81.51	11.38	
	02/11/19	92.89	73.15	19.74	
MW-32C	01/05/10	92.88	102.93	-10.05	
	01/19/10	92.88	102.03	-9.15	
	02/10/10	92.88	100.10	-7.22	
	02/12/10	92.88	100.03	-7.15	
	03/01/10	92.88	98.65	-5.77	
	03/05/10	92.88	98.15	-5.27	
	06/07/10	92.88	93.19	-0.31	
	09/07/10	92.88	96.89	-4.01	
	12/06/10	92.88	94.01	-1.13	
	03/24/11	92.88	81.27	11.61	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-32C	06/20/11	92.88	77.32	15.56	
(Cont'd)	08/01/11	92.88	74.40	18.48	
	08/03/11	92.88	201.55	-108.67	
	10/14/11	92.88	67.59	25.29	
	10/31/11	92.88	68.65	24.23	
	02/06/12	92.88	63.71	29.17	
	05/07/12	92.88	61.18	31.70	
	08/06/12	92.88	69.95	22.93	
	11/05/12	92.88	77.51	15.37	
	01/03/13	92.88	74.05	18.83	
	02/04/13	92.88	72.28	20.60	
	05/13/13	92.88	72.48	20.40	
	08/12/13	92.88	84.56	8.32	
	11/11/13	92.88	91.11	1.77	
	12/10/13	92.88	89.10	3.78	
	02/03/14	92.88	87.98	4.90	
	05/19/14	92.88	91.52	1.36	
	08/18/14	92.88	101.60	-8.72	
	11/04/14	92.88	105.10	-12.22	
	02/02/15	92.88	94.74	-1.86	
	05/11/15	92.88	91.27	1.61	
	08/10/15	92.88	94.27	-1.39	
	11/02/15	92.88	96.03	-3.15	
	02/01/16	92.88	90.85	2.03	
	05/02/16	92.88	89.72	3.16	
	08/01/16	92.88	92.50	0.38	
	11/07/16	92.88	92.35	0.53	
	02/06/17	92.88	87.78	5.10	
	05/15/17	92.88	81.65	11.23	
	08/07/17	92.88	83.66	9.22	
	11/06/17	92.88	67.94	24.94	
	02/26/18	92.88	60.92	31.96	
	05/07/18	92.88	65.05	27.83	
	08/20/18	92.88	71.81	21.07	
	11/06/18	92.88	76.20	16.68	
	02/11/19	92.88	71.77	21.11	
MW-33	03/01/10	83.19	73.60	9.59	
	03/15/10	83.19	85.21	-2.02	
	07/16/10	83.19	89.80	-6.61	
	07/30/10	83.19	92.32	-9.13	
	09/07/10	83.19	94.86	-11.67	
	12/06/10	83.19	90.88	-7.69	
	03/01/11	83.19	73.60	9.59	
	03/15/11	83.19	85.21	-2.02	
	03/24/11	83.19	80.03	3.16	
	06/20/11	83.19	71.50	11.69	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-33	08/01/11	83.19	82.56	0.63	
(Cont'd)	08/04/11	83.19	85.88	-2.69	
	10/14/11	83.19	80.82	2.37	
	10/31/11	83.19	77.92	5.27	
	02/06/12	83.19	68.13	15.06	
	05/07/12	83.19	57.78	25.41	
	08/06/12	83.19	83.31	-0.12	
	11/05/12	83.19	87.51	-4.32	
	12/10/12	83.19	76.87	6.32	
	01/04/13	83.19	75.02	8.17	
	02/04/13	83.19	78.41	4.78	
	05/13/13	83.19	85.06	-1.87	
	08/12/13	83.19	103.70	-20.51	
	11/11/13	83.19	89.67	-6.48	
	12/10/13	83.19	83.71	-0.52	
	02/03/14	83.19	83.47	-0.28	
	05/19/14	83.19	103.68	-20.49	
	08/18/14	83.19	115.30	-32.11	
	11/04/14	83.19	107.90	-24.71	
	02/02/15	83.19	85.81	-2.62	
	05/11/15	83.19	91.73	-8.54	
	08/10/15	83.19	103.16	-19.97	
	11/03/15	83.19	93.22	-10.03	
	02/01/16	83.19	84.78	-1.59	
	05/02/16	83.19	98.13	-14.94	
	08/01/16	83.19	102.90	-19.71	
	11/07/16	83.19	103.55	-20.36	
	02/06/17	83.19	78.63	4.56	
	05/15/17	83.19	86.66	-3.47	
	08/07/17	83.19	90.90	-7.71	
	11/06/17	83.19	59.82	23.37	
	02/26/18	83.19	66.74	16.45	
	05/07/18	83.19	62.74	20.45	
	08/20/18	83.19	71.41	11.78	
	11/06/18	83.19	73.45	9.74	
	02/11/19	83.19	64.55	18.64	
MW-34A	02/25/11	153.25	142.78	10.47	
	03/10/11	153.25	142.26	10.99	
	03/15/11	153.25	143.61	9.64	
	03/24/11	153.25	144.68	8.57	
	06/20/11	153.25	140.26	12.99	
	08/01/11	153.25	143.63	9.62	
	08/04/11	153.25	144.33	8.92	
	10/14/11	153.25	140.77	12.48	
	10/31/11	153.25	141.95	11.30	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-34A	02/06/12	153.25	134.13	19.12	
(Cont'd)	05/07/12	153.25	126.22	27.03	
	06/26/12	153.25	130.37	22.88	
	08/06/12	153.25	139.39	13.86	
	11/05/12	153.25	146.00	7.25	
	02/04/13	153.25	138.95	14.30	
	05/13/13	153.25	139.67	13.58	
	08/12/13	153.25	156.14	-2.89	
	09/18/13	153.25	160.57	-7.32	
	11/11/13	153.25	155.60	-2.35	
	12/10/13	153.25	150.05	3.20	
	02/03/14	153.25	146.80	6.45	
	05/19/14	153.25	159.82	-6.57	
	08/18/14	153.25	171.15	-17.90	
	11/04/14	153.25	172.43	-19.18	
	02/02/15	153.25	155.22	-1.97	
	05/11/15	153.25	155.51	-2.26	
	08/10/15	153.25	163.23	-9.98	
	11/02/15	153.25	160.22	-6.97	
	02/01/16	153.25	151.81	1.44	
	05/02/16	153.25	158.71	-5.46	
	08/01/16	153.25	165.49	-12.24	
	11/07/16	153.25	165.51	-12.26	
	02/06/17	153.25	149.02	4.23	
	05/15/17	153.25	148.62	4.63	
	08/07/17	153.25	155.68	-2.43	
	11/06/17	153.25	135.02	18.23	
	02/26/18	153.25	131.33	21.92	
	05/07/18	153.25	136.17	17.08	
	08/20/18	153.25	147.38	5.87	
	11/06/18	153.25	149.91	3.34	
	02/11/19	153.25	139.05	14.20	
MW-34B	02/25/11	153.11	146.89	6.22	
	03/01/11	153.11	146.32	6.79	
	03/10/11	153.11	146.80	6.31	
	03/15/11	153.11	147.91	5.20	
	03/24/11	153.11	148.84	4.27	
	06/20/11	153.11	142.81	10.30	
	06/21/11	153.11	143.15	9.96	
	08/01/11	153.11	147.20	5.91	
	08/04/11	153.11	148.27	4.84	
	09/30/11	153.11	146.12	6.99	
	10/14/11	153.11	144.55	8.56	
	10/31/11	153.11	146.19	6.92	
	02/06/12	153.11	136.92	16.19	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-34B	05/07/12	153.11	127.89	25.22	
(Cont'd)	06/26/12	153.11	132.73	20.38	
	08/06/12	153.11	144.08	9.03	
	11/05/12	153.11	153.67	-0.56	
	12/10/12	153.11	149.08	4.03	
	01/03/13	153.11	145.69	7.42	
	02/04/13	153.11	145.61	7.50	
	05/13/13	153.11	145.45	7.66	
	08/12/13	153.11	164.81	-11.70	
	09/18/13	153.11	169.84	-16.73	
	11/11/13	153.11	163.05	-9.94	
	12/10/13	153.11	156.82	-3.71	
	02/03/14	153.11	153.48	-0.37	
	05/19/14	153.11	163.44	-10.33	
	08/18/14	153.11	177.51	-24.40	
	11/04/14	153.11	178.79	-25.68	
	02/02/15	153.11	160.99	-7.88	
	05/11/15	153.11	159.14	-6.03	
	08/10/15	153.11	168.28	-15.17	
	11/02/15	153.11	165.13	-12.02	
	02/01/16	153.11	156.28	-3.17	
	05/02/16	153.11	162.00	-8.89	
	08/01/16	153.11	168.68	-15.57	
	11/07/16	153.11	169.85	-16.74	
	02/06/17	153.11	152.36	0.75	
	05/15/17	153.11	150.31	2.80	
	08/07/17	153.11	155.75	-2.64	
	11/06/17	153.11	133.16	19.95	
	02/26/18	153.11	130.75	22.36	
	05/07/18	153.11	130.26	22.85	
	08/20/18	153.11	138.25	14.86	
	11/06/18	153.11	141.67	11.44	
	02/11/19	153.11	135.71	17.40	
MW-34C	02/25/11	153.29	145.40	7.89	
	03/10/11	153.29	148.34	4.95	
	03/15/11	153.29	149.75	3.54	
	03/24/11	153.29	149.08	4.21	
	03/29/11	153.29	145.51	7.78	
	06/20/11	153.29	141.68	11.61	
	06/21/11	153.29	144.05	9.24	
	08/01/11	153.29	146.36	6.93	
	08/04/11	153.29	148.5	4.79	
	10/14/11	153.29	144.06	9.23	
	10/31/11	153.29	144.52	8.77	
	02/06/12	153.29	136.08	17.21	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-34C (Cont'd)	05/07/12	153.29	128.1	25.19	
	06/26/12	153.29	132.07	21.22	
	08/06/12	153.29	144.46	8.83	
	11/05/12	153.29	150.45	2.84	
	12/10/12	153.29	144.11	9.18	
	01/03/13	153.29	143.18	10.11	
	02/04/13	153.29	143.01	10.28	
	05/13/13	153.29	146.64	6.65	
	08/12/13	153.29	162.95	-9.66	
	09/18/13	153.29	167.07	-13.78	
	11/11/13	153.29	158.03	-4.74	
	12/10/13	153.29	153.21	0.08	
	02/03/14	153.29	152.38	0.91	
	05/19/14	153.29	164.45	-11.16	
	08/18/14	153.29	175.77	-22.48	
	11/04/14	153.29	174.43	-21.14	
	02/02/15	153.29	156.90	-3.61	
	05/11/15	153.29	158.77	-5.48	
	08/10/15	153.29	166.34	-13.05	
	11/02/15	153.29	162.32	-9.03	
	02/01/16	153.29	154.85	-1.56	
	05/02/16	153.29	161.50	-8.21	
	08/01/16	153.29	166.20	-12.91	
	11/07/16	153.29	168.18	-14.89	
	02/06/17	153.29	150.12	3.17	
	05/15/17	153.29	151.35	1.94	
	08/07/17	153.29	155.62	-2.33	
	11/06/17	153.29	131.75	21.54	
	02/26/18	153.29	132.05	21.24	
	05/07/18	153.29	131.11	22.18	
	08/20/18	153.29	137.59	15.70	
	11/06/18	153.29	140.66	12.63	
	02/11/19	153.29	133.81	19.48	
MW-35A	01/19/11	93.57	77.69	15.88	
	02/03/11	93.57	77.51	16.06	
	03/24/11	93.57	76.01	17.56	
	05/26/11	93.57	74.25	19.32	
	06/20/11	93.57	71.74	21.83	
	08/01/11	93.57	75.29	18.28	
	08/04/11	93.57	76.44	17.13	
	10/31/11	93.57	71.55	22.02	
	02/06/12	93.57	64.46	29.11	
	05/07/12	93.57	60.11	33.46	
	06/26/12	93.57	64.03	29.54	
	08/06/12	93.57	72.82	20.75	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-35A (Cont'd)	11/05/12	93.57	76.05	17.52	
	02/04/13	93.57	68.48	25.09	
	05/13/13	93.57	73.46	20.11	
	08/12/13	93.57	86.05	7.52	
	11/11/13	93.57	84.11	9.46	
	12/10/13	93.57	80.20	13.37	
	02/03/14	93.57	79.11	14.46	
	05/19/14	93.57	90.45	3.12	
	08/18/14	93.57	98.60	-5.03	
	11/04/14	93.57	97.37	-3.80	
	02/02/15	93.57	83.43	10.14	
	05/11/15	93.57	87.57	6.00	
	08/10/15	93.57	93.08	0.49	
	11/02/15	93.57	88.69	4.88	
	02/01/16	93.57	81.57	12.00	
	05/02/16	93.57	91.36	2.21	
	08/01/16	93.57	95.55	-1.98	
	11/07/16	93.57	95.80	-2.23	
	02/06/17	93.57	78.82	14.75	
	05/15/17	93.57	83.40	10.17	
	08/07/17	93.57	86.90	6.67	
	11/06/17	93.57	65.62	27.95	
	02/26/18	93.57	67.47	26.10	
	05/07/18	93.57	74.14	19.43	
	08/20/18	93.57	82.40	11.17	
	11/06/18	93.57	83.41	10.16	
	02/11/19	93.57	68.56	25.01	
MW-35B	01/19/11	93.56	84.50	9.06	
	02/03/11	93.56	84.59	8.97	
	03/24/11	93.56	82.95	10.61	
	06/20/11	93.56	78.82	14.74	
	06/22/11	93.56	78.80	14.76	
	08/01/11	93.56	82.78	10.78	
	08/04/11	93.56	84.05	9.51	
	10/31/11	93.56	79.67	13.89	
	02/06/12	93.56	72.06	21.50	
	05/07/12	93.56	65.67	27.89	
	06/26/12	93.56	70.36	23.20	
	08/06/12	93.56	80.68	12.88	
	11/05/12	93.56	85.02	8.54	
	02/04/13	93.56	77.70	15.86	
	05/13/13	93.56	81.25	12.31	
	08/12/13	93.56	97.17	-3.61	
	09/18/13	93.56	101.37	-7.81	
	11/11/13	93.56	94.21	-0.65	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-35B	12/10/13	93.56	87.92	5.64	
(Cont'd)	02/03/14	93.56	86.58	6.98	
	05/19/14	93.56	100.60	-7.04	
	08/18/14	93.56	111.30	-17.74	
	11/04/14	93.56	110.32	-16.76	
	02/02/15	93.56	92.11	1.45	
	05/11/15	93.56	95.79	-2.23	
	08/10/15	93.56	103.07	-9.51	
	11/02/15	93.56	99.27	-5.71	
	02/01/16	93.56	90.85	2.71	
	05/02/16	93.56	98.47	-4.91	
	08/01/16	93.56	104.05	-10.49	
	11/07/16	93.56	105.55	-11.99	
	02/06/17	93.56	85.75	7.81	
	05/15/17	93.56	88.65	4.91	
	08/07/17	93.56	93.70	-0.14	
	11/06/17	93.56	71.52	22.04	
	02/26/18	93.56	70.97	22.59	
	05/07/18	93.56	77.93	15.63	
	08/20/18	93.56	87.45	6.11	
	11/06/18	93.56	89.32	4.24	
	02/11/19	93.56	75.51	18.05	
MW-35C	01/19/11	93.55	88.79	4.76	
	02/03/11	93.55	88.62	4.93	
	03/01/11	93.55	82.54	11.01	
	03/24/11	93.55	87.38	6.17	
	06/20/11	93.55	80.47	13.08	
	08/01/11	93.55	86.38	7.17	
	08/04/11	93.55	88.72	4.83	
	10/31/11	93.55	83.44	10.11	
	02/06/12	93.55	74.42	19.13	
	05/07/12	93.55	66.84	26.71	
	06/26/12	93.55	72.84	20.71	
	08/06/12	93.55	88.31	5.24	
	11/05/12	93.55	92.71	0.84	
	02/04/13	93.55	83.56	9.99	
	05/13/13	93.55	89.47	4.08	
	08/12/13	93.55	107.84	-14.29	
	09/18/13	93.55	111.67	-18.12	
	11/11/13	93.55	99.35	-5.80	
	12/10/13	93.55	93.43	0.12	
	02/03/14	93.55	93.68	-0.13	
	05/19/14	93.55	108.54	-14.99	
	08/18/14	93.55	120.07	-26.52	
	11/04/14	93.55	116.33	-22.78	
	02/02/15	93.55	94.44	-0.89	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-35C (Cont'd)	05/11/15	93.55	99.58	-6.03	
	08/10/15	93.55	108.23	-14.68	
	11/02/15	93.55	102.92	-9.37	
	02/01/16	93.55	94.58	-1.03	
	05/02/16	93.55	102.43	-8.88	
	08/01/16	93.55	107.20	-13.65	
	11/07/16	93.55	109.20	-15.65	
	02/06/17	93.55	87.36	6.19	
	05/15/17	93.55	91.38	2.17	
	08/07/17	93.55	95.55	-2.00	
	11/06/17	93.55	67.44	26.11	
	02/26/18	93.55	71.61	21.94	
	05/07/18	93.55	72.13	21.42	
	08/20/18	93.55	79.78	13.77	
	11/06/18	93.55	82.91	10.64	
	02/11/19	93.55	73.31	20.24	
MW-36	01/13/12	86.65	76.60	10.05	
	01/26/12	86.65	76.55	10.10	
	02/06/12	86.65	76.62	10.03	
	05/07/12	86.65	61.99	24.66	
	08/06/12	86.65	88.09	-1.44	
	11/05/12	86.65	93.33	-6.68	
	01/04/13	86.65	81.65	5.00	
	02/04/13	86.65	84.54	2.11	
	05/13/13	86.65	89.88	-3.23	
	08/12/13	86.65	108.65	-22.00	
	11/11/13	86.65	93.68	-7.03	
	02/03/14	86.65	86.85	-0.20	
	05/19/14	86.65	107.76	-21.11	
	08/18/14	86.65	120.00	-33.35	
	11/04/14	86.65	112.18	-25.53	
	02/02/15	86.65	90.73	-4.08	
	05/11/15	86.65	96.88	-10.23	
	08/10/15	86.65	107.61	-20.96	
	11/02/15	86.65	97.50	-10.85	
	02/01/16	86.65	88.71	-2.06	
	05/02/16	86.65	103.14	-16.49	
	08/01/16	86.65	108.38	-21.73	
	11/07/16	86.65	108.73	-22.08	
	02/06/17	86.65	83.55	3.10	
	05/17/17	86.65	92.35	-5.70	
	08/07/17	86.65	96.88	-10.23	
	11/06/17	86.65	65.10	21.55	
	02/26/18	86.65	72.25	14.40	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-36	05/08/18	86.65	66.65	20.00	
(Cont'd)	08/20/18	86.65	74.32	12.33	
	11/06/18	86.65	77.37	9.28	
	02/11/19	86.65	69.34	17.31	
MW-37	10/26/12	155.60	144.62	10.98	
	11/05/12	155.60	142.07	13.53	
	12/10/12	155.60	140.12	15.48	
	01/03/13	155.60	137.21	18.39	
	02/04/13	155.60	136.18	19.42	
	05/13/13	155.60	136.80	18.80	
	08/12/13	155.60	149.41	6.19	
	09/18/13	155.60	154.59	1.01	
	11/12/13	155.60	156.98	-1.38	
	02/03/14	155.60	153.22	2.38	
	05/19/14	155.60	157.06	-1.46	
	08/18/14	155.60	167.65	-12.05	
	11/04/14	155.60	171.21	-15.61	
	02/02/15	155.60	159.43	-3.83	
	05/11/15	155.60	154.65	0.95	
	08/10/15	155.60	158.40	-2.80	
	11/02/15	155.60	160.51	-4.91	
	02/01/16	155.60	155.85	-0.25	
	05/02/16	155.60	153.90	1.70	
	08/01/16	155.60	157.24	-1.64	
	11/07/16	155.60	162.06	-6.46	
	02/06/17	155.60	152.72	2.88	
	05/15/17	155.60	145.47	10.13	
	08/07/17	155.60	148.18	7.42	
	11/06/17	155.60	131.14	24.46	
	03/02/18	155.60	124.82	30.78	
	05/08/18	155.60	129.42	26.18	
	08/20/18	155.60	137.07	18.53	
	11/06/18	155.60	142.32	13.28	
	02/11/19	155.60	137.04	18.56	
MW-38	08/07/13	154.90	156.80	-1.90	
	08/12/13	154.90	157.50	-2.60	
	09/18/13	154.90	162.55	-7.65	
	11/12/13	154.90	160.86	-5.96	
	02/03/14	154.90	150.50	4.40	
	05/19/14	154.90	159.11	-4.21	
	08/18/14	154.90	173.52	-18.62	
	11/04/14	154.90	176.59	-21.69	
	02/02/15	154.90	162.11	-7.21	
	05/11/15	154.90	157.15	-2.25	
	08/10/15	154.90	166.11	-11.21	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-38	11/02/15	154.90	165.35	-10.45	
(Cont'd)	02/01/16	154.90	156.80	-1.90	
	05/02/16	154.90	161.35	-6.45	
	08/01/16	154.90	169.55	-14.65	
	11/07/16	154.90	169.69	-14.79	
	02/06/17	154.90	156.94	-2.04	
	05/15/17	154.90	151.51	3.39	
	08/07/17	154.90	160.10	-5.20	
	11/06/17	154.90	143.85	11.05	
	03/02/18	154.90	137.85	17.05	
	05/08/18	154.90	138.92	15.98	
	08/20/18	154.90	150.08	4.82	
	11/06/18	154.90	153.90	1.00	
	02/11/19	154.90	146.05	8.85	
MW-39	08/08/13	84.25	106.13	-21.88	
	08/12/13	84.25	106.72	-22.47	
	11/11/13	84.25	90.90	-6.65	
	02/03/14	84.25	84.70	-0.45	
	05/19/14	84.25	106.47	-22.22	
	08/18/14	84.25	118.09	-33.84	
	11/04/14	84.25	109.61	-25.36	
	02/02/15	84.25	87.62	-3.37	
	05/11/15	84.25	95.10	-10.85	
	08/10/15	84.25	104.94	-20.69	
	11/02/15	84.25	95.00	-10.75	
	02/01/16	84.25	86.35	-2.10	
	05/02/16	84.25	101.39	-17.14	
	08/01/16	84.25	106.20	-21.95	
	11/07/16	84.25	106.85	-22.60	
	02/06/17	84.25	80.95	3.30	
	05/17/17	84.25	90.75	-6.50	
	08/07/17	84.25	94.90	-10.65	
	11/06/17	84.25	62.93	21.32	
	02/26/18	84.25	70.59	13.66	
	05/08/18	84.25	65.10	19.15	
	08/20/18	84.25	72.65	11.60	
	11/06/18	84.25	75.45	8.80	
	02/11/19	84.25	67.10	17.15	
MW-40	07/19/13	123.40	124.37	-0.97	
	08/12/13	123.40	129.88	-6.48	
	11/11/13	123.40	127.22	-3.82	
	02/03/14	123.40	121.00	2.40	
	05/19/14	123.40	131.26	-7.86	
	08/18/14	123.40	143.09	-19.69	
	11/04/14	123.40	142.65	-19.25	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-40	02/02/15	123.40	123.10	0.30	
(Cont'd)	05/11/15	123.40	125.05	-1.65	
	08/10/15	123.40	132.73	-9.33	
	11/02/15	123.40	130.39	-6.99	
	02/01/16	123.40	122.22	1.18	
	05/02/16	123.40	126.37	-2.97	
	08/01/16	123.40	131.15	-7.75	
	11/07/16	123.40	133.75	-10.35	
	02/06/17	123.40	115.56	7.84	
	05/15/17	123.40	115.48	7.92	
	08/07/17	123.40	120.00	3.40	
	11/06/17	123.40	95.36	28.04	
	02/26/18	123.40	95.76	27.64	
	05/07/18	123.40	98.33	25.07	
	08/20/18	123.40	106.08	17.32	
	11/06/18	123.40	109.71	13.69	
	02/11/19	123.40	100.95	22.45	
MW-41	08/19/14	156.02	186.17	-30.15	
	09/10/14	155.60	185.65	-30.05	
	09/24/14	155.60	186.05	-30.45	
	11/04/14	155.60	182.14	-26.54	
	02/02/15	155.60	163.12	-7.52	
	05/11/15	155.60	162.20	-6.60	
	08/10/15	155.60	171.28	-15.68	
	11/02/15	155.60	167.24	-11.64	
	02/01/16	155.60	158.29	-2.69	
	05/02/16	155.60	166.35	-10.75	
	08/01/16	155.60	172.88	-17.28	
	11/07/16	155.60	173.65	-18.05	
	02/06/17	155.60	154.75	0.85	
	05/15/17	155.60	155.25	0.35	
	08/07/17	155.60	162.35	-6.75	
	11/06/17	155.60	136.41	19.19	
	03/02/18	155.60	137.20	18.40	
	05/08/18	155.60	133.78	21.82	
	08/20/18	155.60	141.09	14.51	
	11/06/18	155.60	144.30	11.30	
	02/11/19	155.60	138.65	16.95	
EW-01	06/20/05	142.65	132.89	9.76	
	09/19/05	142.65	140.63	2.02	
	09/21/05	142.65	140.88	1.77	
	12/17/05	142.65	119.06	23.59	
	12/19/05	142.65	118.70	23.95	
	02/24/06	142.65	108.91	33.74	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
EW-01	03/20/06	142.65	112.76	29.89	
(Cont'd)	05/18/06	142.65	105.98	36.67	
	06/19/06	142.65	108.61	34.04	
	09/25/06	142.65	118.60	24.05	
	12/11/06	142.5	116.08	26.4	
	03/12/07	142.5	122.93	19.6	
	06/18/07	142.5	133.31	9.2	
	09/24/07	142.5	157.35	-14.9	
	12/10/07	142.5	164.54	-22.0	
	12/20/07	142.5	164.75	-22.3	
	01/21/08	142.5	162.41	-19.9	
	01/21/08	140.3	162.41	-22.1	
	03/17/08	140.3	156.96	-16.7	
	05/27/08	141.13	160.10	-18.97	
	06/10/08	141.13	161.48	-20.35	
	06/23/08	141.13	162.89	-21.76	Pilot GETS
	07/09/08	141.07	165.87	-24.80	
	07/11/08	141.07	165.59	-24.52	
	07/14/08	141.07	165.71	-24.64	Pilot GETS
	07/15/08	141.07	167.64	-26.57	Pilot GETS
	07/30/08	141.07	168.45	-27.38	Pilot GETS
	08/14/08	141.07	> 172.65	< -31.58	Pilot GETS
	08/25/08	141.07	171.89	-30.82	Pilot GETS
	09/22/08	141.07	> 172.65	< -31.58	Pilot GETS
	10/22/08	141.07	> 172.65	< -31.58	
	12/15/08	141.07	171.93	-30.86	
	12/19/08	141.07	171.74	-30.67	
	01/07/09	141.07	165.86	-24.79	Pilot GETS
	02/25/09	141.07	162.17	-21.10	Pilot GETS
	03/16/09	141.07	157.84	-16.77	Pilot GETS
	03/18/09	141.07	158.69	-17.62	
	04/29/09	141.07	152.31	-11.24	
	04/29/09	141.07	152.85	-11.78	Pilot GETS
	05/27/09	141.07	155.10	-14.03	Pilot GETS
	06/22/09	141.07	156.88	-15.81	Pilot GETS
	06/26/09	141.07	157.98	-16.91	Pilot GETS
	06/29/09	141.07	158.68	-17.61	Pilot GETS
	07/22/09	141.07	164.06	-22.99	Pilot GETS
	08/14/09	141.07	168.21	-27.14	Pilot GETS
	08/31/09	141.07	163.05	-21.98	Pilot GETS
	09/10/09	141.07	164.32	-23.25	Pilot GETS
	09/11/09	141.07	164.23	-23.16	Pilot GETS
	10/08/09	141.07	> 172.65	< -31.58	Pilot GETS
	10/23/09	141.07	158.25	-17.18	
	10/30/09	141.07	157.75	-16.68	
	11/04/09	141.07	157.23	-16.16	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
EW-01	12/07/09	141.07	154.56	-13.49	
(Cont'd)	12/09/09	141.07	155.28	-14.21	
	01/19/10	141.07	153.29	-12.22	
	02/10/10	141.07	142.49	-1.42	
	03/01/10	141.07	147.07	-6.00	
	03/05/10	141.07	146.63	-5.56	
	03/09/10	141.07	142.50	-1.43	
	06/07/10	141.07	142.43	-1.36	
	09/07/10	141.07	150.09	-9.02	
	12/06/10	141.07	148.66	-7.59	
	03/01/11	141.07	131.68	9.39	
	03/24/11	141.07	132.08	8.99	
	06/20/11	141.07	127.90	13.17	
	08/01/11	141.07	128.94	12.13	
	08/05/11	141.07	129.27	11.80	
	10/14/11	141.07	125.48	15.59	
	10/31/11	141.07	126.74	14.33	
	01/05/12	141.07	121.24	19.83	
	02/06/12	141.07	119.36	21.71	
	05/07/12	141.07	113.04	28.03	
	06/26/12	141.07	117.34	23.73	
	08/06/12	141.07	125.45	15.62	
	11/05/12	141.07	136.31	4.76	
	02/04/13	141.07	128.42	12.65	
	05/13/13	141.07	126.97	14.10	
	07/18/13	141.07	141.66	-0.59	
	07/19/13	141.07	141.39	-0.32	
	08/12/13	141.07	145.78	-4.71	
	09/18/13	141.07	151.02	-9.95	
	11/11/13	141.07	147.97	-6.90	
	02/03/14	141.07	139.43	1.64	
	05/19/14	141.07	145.42	-4.35	
	08/18/14	141.07	159.40	-18.33	
	11/04/14	141.07	161.72	-20.65	
	02/02/15	141.07	145.40	-4.33	
	05/11/15	141.07	142.61	-1.54	
	08/10/15	141.07	150.91	-9.84	
	11/02/15	141.07	150.00	-8.93	
	02/01/16	141.07	141.57	-0.50	
	05/02/16	141.07	143.98	-2.91	
	08/01/16	141.07	150.17	-9.10	
	11/07/16	141.07	152.30	-11.23	
	02/06/17	141.07	137.24	3.83	
	05/15/17	141.07	132.49	8.58	
	08/07/17	141.07	139.10	1.97	
	11/06/17	141.07	117.81	23.26	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
EW-01	02/26/18	141.07	111.86	29.21	
(Cont'd)	05/07/18	141.07	114.87	26.20	
	08/20/18	141.07	123.26	17.81	
	11/06/18	141.07	126.88	14.19	
	02/11/19	141.07	121.22	19.85	
EW-02	10/23/09	137.6	137.92	-0.3	
	10/30/09	137.6	156.81	-19.2	
	10/31/09	137.6	155.97	-18.3	
	11/04/09	136.2	153.21	-17.0	
	12/07/09	132.97	UTM	--	
	02/10/10	132.97	142.49	-9.52	
	03/01/10	132.97	139.89	-6.92	Pre-Startup
	03/22/10	132.97	136.73	-3.76	Pilot GETS
	03/22/10	132.97	143.6	-10.6	Pilot GETS
	03/23/10	132.97	143.25	-10.28	Pilot GETS
	03/24/10	132.97	144.42	-11.45	Pilot GETS
	03/25/10	132.97	144.60	-11.63	
	03/26/10	132.97	144.99	-12.02	
	04/01/10	132.97	143.85	-10.88	
	04/09/10	132.97	143.40	-10.43	
	04/13/10	132.97	142.63	-9.66	
	04/23/10	132.97	143.15	-10.18	
	05/25/10	132.97	142.50	-9.53	Pilot GETS
	06/07/10	132.97	143.34	-10.37	Pilot GETS
	06/10/10	132.97	143.42	-10.45	Pilot GETS
	07/08/10	132.97	144.76	-11.79	Pilot GETS
	07/30/10	132.97	145.5	-12.53	Pilot GETS
	08/02/10	132.97	146.95	-13.98	Pilot GETS
	09/02/10	132.97	150.82	-17.85	Pilot GETS
	09/07/10	132.97	150.46	-17.49	Pilot GETS
	10/07/10	132.97	153.49	-20.52	Pilot GETS
	11/11/10	132.97	153.63	-20.66	
	12/06/10	132.97	148.10	-15.13	
	12/07/10	132.97	149.05	-16.08	Pilot GETS
	12/07/10	132.97	148.62	-15.65	Pilot GETS
	01/13/11	132.97	138.52	-5.55	
	01/13/11	132.97	138.74	-5.77	Pilot GETS
	02/03/11	132.97	136.61	-3.64	Pilot GETS
	03/02/11	132.97	130.70	2.27	Pilot GETS
	03/24/11	132.97	133.23	-0.26	Pilot GETS
	04/01/11	132.97	132.74	0.23	Pilot GETS
	05/04/11	132.97	134.42	-1.45	Pilot GETS
	06/07/11	132.97	129.64	3.33	Pilot GETS
	06/20/11	132.97	128.12	4.85	Pilot GETS

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
EW-02	07/02/11	132.97	127.73	5.24	Pilot GETS
(Cont'd)	08/01/11	132.97	130.41	2.56	Pilot GETS
	08/05/11	132.97	130.83	2.14	Pilot GETS
	09/09/11	132.97	131.13	1.84	
	09/30/11	132.97	128.61	4.36	Pilot GETS
	10/17/11	132.97	127.67	5.30	Pilot GETS
	10/31/11	132.97	128.83	4.14	Pilot GETS
	11/01/11	132.97	128.76	4.21	Pilot GETS
	12/07/11	132.97	122.0	10.97	Pilot GETS
	12/08/11	132.97	123.51	9.46	Pilot GETS
	01/06/12	132.97	119.6	13.37	Pilot GETS
	01/10/12	132.97	120.72	12.25	Pilot GETS
	02/06/12	132.97	118.95	14.02	Pilot GETS
	02/08/12	132.97	119.22	13.75	Pilot GETS
	03/09/12	132.97	113.25	19.72	Pilot GETS
	04/02/12	132.97	116.19	16.78	Pilot GETS
	04/16/12	132.97	114.57	18.40	Pilot GETS
	05/01/12	132.97	113.65	19.32	Pilot GETS
	05/07/12	132.97	113.55	19.42	
	06/07/12	132.97	118.65	14.32	Pilot GETS
	06/08/12	132.97	118.79	14.18	Pilot GETS
	06/26/12	132.97	118.32	14.65	Pilot GETS
	07/11/12	132.97	121.79	11.18	Pilot GETS
	08/03/12	132.97	127.16	5.81	Pilot GETS
	08/06/12	132.97	127.42	5.55	Pilot GETS
	09/06/12	132.97	132.79	0.18	Pilot GETS
	10/15/12	132.97	156.45	-23.48	Pilot GETS
	11/05/12	132.97	137.50	-4.53	Pilot GETS
	12/10/12	132.97	133.49	-0.52	Pilot GETS
	02/04/13	132.97	129.53	3.44	Pilot GETS
	03/09/13	132.97	127.99	4.98	Pilot GETS
	04/15/13	132.97	121.61	11.36	Pilot GETS
	05/13/13	132.97	129.21	3.76	Pilot GETS
	06/13/13	132.97	136.67	-3.70	Pilot GETS
	07/02/13	132.97	139.40	-6.43	Pilot GETS
	08/12/13	132.97	147.57	-14.60	Pilot GETS
	09/03/13	132.97	150.15	-17.18	Pilot GETS
	10/05/13	132.97	153.60	-20.63	Pilot GETS
	11/11/13	132.97	148.57	-15.60	Pilot GETS
	12/11/13	132.97	142.69	-9.72	Pilot GETS
	01/17/14	132.97	139.97	-7.00	Pilot GETS
	02/03/14	132.97	140.12	-7.15	Pilot GETS
	02/11/14	132.97	139.58	-6.61	Pilot GETS
	03/04/14	132.97	137.47	-4.50	Pilot GETS
	05/21/14	132.97	140.60	-7.63	Pilot GETS
	08/18/14	132.97	153.84	-20.87	Pilot GETS

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
EW-02	11/03/14	132.97	161.56	-28.59	Pilot GETS
(Cont'd)	11/04/14	132.97	162.10	-29.13	Pilot GETS
	12/18/14	132.97	150.55	-17.58	Pilot GETS
	01/19/15	132.97	150.01	-17.04	Pilot GETS
	02/02/15	132.97	153.84	-20.87	Pilot GETS
	03/06/15	132.97	139.38	-6.41	
	04/02/15	132.97	139.32	-6.35	
	05/11/15	132.97	143.04	-10.07	Pilot GETS
	06/05/15	132.97	145.68	-12.71	Pilot GETS
	07/14/15	132.97	149.72	-16.75	Pilot GETS
	08/10/15	132.97	151.82	-18.85	Pilot GETS
	09/03/15	132.97	153.33	-20.36	Pilot GETS
	10/06/15	132.97	154.65	-21.68	Pilot GETS
	11/02/15	132.97	150.00	-17.03	Pilot GETS
	12/03/15	132.97	147.21	-14.24	
	01/07/16	132.97	143.33	-10.36	
	02/01/16	132.97	142.55	-9.58	
	03/03/16	132.97	141.15	-8.18	Pilot GETS
	04/05/16	132.97	141.38	-8.41	Pilot GETS
	05/02/16	132.97	144.39	-11.42	Pilot GETS
	06/01/16	132.97	146.32	-13.35	Pilot GETS
	06/16/16	132.97	148.05	-15.08	Pilot GETS
	07/07/16	132.97	149.30	-16.33	Pilot GETS
	07/21/16	132.97	150.62	-17.65	Pilot GETS
	08/01/16	132.97	150.95	-17.98	Pilot GETS
	08/18/16	132.97	152.13	-19.16	Pilot GETS
	09/08/16	132.97	153.50	-20.53	Pilot GETS
	09/15/16	132.97	153.74	-20.77	Pilot GETS
	10/06/16	132.97	155.17	-22.20	Pilot GETS
	10/20/16	132.97	158.16	-25.19	Pilot GETS
	11/01/16	132.97	152.05	-19.08	Pilot GETS
	11/07/16	132.97	152.20	-19.23	Pilot GETS
	12/01/16	132.97	151.40	-18.43	Pilot GETS
	12/15/16	132.97	148.93	-19.23	Pilot GETS
	01/06/17	132.97	147.45	-14.48	Pilot GETS
	01/26/17	132.97	137.28	-4.31	Pilot GETS
	02/03/17	132.97	136.00	-3.03	Pilot GETS
	02/06/17	132.97	137.38	-4.41	Pilot GETS
	02/16/17	132.97	134.57	-1.60	Pilot GETS
	03/02/17	132.97	136.11	-3.14	Pilot GETS
	03/16/17	132.97	138.23	-5.26	Pilot GETS
	04/06/17	132.97	126.53	6.44	Pilot GETS
	04/20/17	132.97	128.52	4.45	Pilot GETS
	05/15/17	132.97	126.92	6.05	Pilot GETS
	05/18/17	132.97	133.57	-0.60	Pilot GETS
	06/15/17	132.97	136.11	-3.14	Pilot GETS
	07/06/17	132.97	134.74	-1.77	Pilot GETS
	07/20/17	132.97	139.46	-6.49	Pilot GETS

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
EW-02	08/03/17	132.97	138.91	-5.94	Pilot GETS
(Cont'd)	08/07/17	132.97	138.73	-5.76	Pilot GETS
	08/17/17	132.97	153.51	-20.54	Pilot GETS
	09/01/17	132.97	134.88	-1.91	Pilot GETS
	09/14/17	132.97	130.22	2.75	Pilot GETS
	10/19/17	132.97	120.16	12.81	Pilot GETS
	11/06/17	132.97	116.26	16.71	Pilot GETS
	11/20/17	132.97	113.42	19.55	Pilot GETS
	12/04/17	132.97	111.35	21.62	Pilot GETS
	12/14/17	132.97	110.06	22.91	Pilot GETS
	01/04/18	132.97	107.58	25.39	Pilot GETS
	01/18/18	132.97	106.39	26.58	Pilot GETS
	02/15/18	132.97	111.04	21.93	Pilot GETS
	02/26/18	132.97	112.48	20.49	Pilot GETS
	03/15/18	132.97	113.83	19.14	Pilot GETS
	04/05/18	132.97	110.32	22.65	Pilot GETS
	05/03/18	132.97	113.76	19.21	Pilot GETS
	05/07/18	132.97	114.16	18.81	Pilot GETS
	05/17/18	132.97	114.93	18.04	Pilot GETS
	06/07/18	132.97	116.41	16.56	Pilot GETS
	07/05/18	132.97	118.30	14.67	Pilot GETS
	07/19/18	132.97	119.58	13.39	Pilot GETS
	08/02/18	132.97	120.55	12.42	Pilot GETS
	08/16/18	132.97	121.90	11.07	Pilot GETS
	08/20/18	132.97	122.12	10.85	Pilot GETS
	09/20/18	132.97	123.64	9.33	Pilot GETS
	10/05/18	132.97	124.58	8.39	Pilot GETS
	10/18/18	132.97	124.65	8.32	Pilot GETS
	11/01/18	132.97	125.39	7.58	Pilot GETS
	11/06/18	132.97	125.55	7.42	Pilot GETS
	11/15/18	132.97	125.91	7.06	Pilot GETS
	12/04/18	132.97	125.05	7.92	Pilot GETS
	12/19/18	132.97	124.48	8.49	Pilot GETS
	01/03/19	132.97	123.31	9.66	Pilot GETS
	01/24/19	132.97	121.15	11.82	Pilot GETS
	02/07/19	132.97	119.67	13.30	Pilot GETS
	02/11/19	132.97	113.19	19.78	Pilot GETS
	02/21/19	132.97	117.99	14.98	Pilot GETS
Perched Zone Water Levels					
P-07	06/12/97	165.34	135.20	30.14	
	05/13/98	165.34	135.11	30.23	
	05/27/98	165.34	135.12	30.22	
	06/11/98	165.34	135.15	30.19	
	07/14/98	165.34	135.26	30.08	
	11/11/98	165.34	135.39	29.95	SVE, DPE-H2O
	11/18/98	165.34	135.42	29.92	SVE, DPE-H2O
	11/18/98	165.34	135.48	29.86	SVE, DPE-H2O

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Perched Zone Water Levels (continued)					
P-07	11/19/98	165.34	135.36	29.98	SVE, DPE, DPE-H2O
(Cont'd)	11/20/98	165.34	135.44	29.90	SVE, DPE-H2O
	11/23/98	165.34	135.36	29.98	SVE, DPE-H2O
	11/23/98	165.34	135.52	29.82	SVE, DPE-H2O
	11/24/98	165.34	135.53	29.81	SVE, DPE-H2O
	12/07/98	165.34	135.40	29.94	SVE, DPE-H2O
	12/07/98	165.34	135.52	29.82	SVE, DPE, DPE-H2O
	12/10/98	165.34	135.50	29.84	SVE, DPE, DPE-H2O
	12/11/98	165.34	135.37	29.97	SVE, DPE-H2O
	12/14/98	165.34	135.26	30.08	SVE, DPE-H2O
	12/14/98	165.34	135.27	30.07	SVE, DPE, DPE-H2O
	12/16/98	165.34	135.48	29.86	SVE, DPE, DPE-H2O
	01/06/99	165.34	135.36	29.98	
	01/20/99	165.34	135.20	30.14	DPE, DPE-H2O
	01/25/99	165.34	135.50	29.84	SVE, DPE, DPE-H2O
	01/27/99	165.34	135.51	29.83	SVE, DPE, DPE-H2O
	02/01/99	165.34	135.25	30.09	SVE, DPE, DPE-H2O
	02/10/99	165.34	135.56	29.78	
	02/23/99	165.34	135.17	30.17	DPE
	03/01/99	165.34	135.55	29.79	
	03/09/99	165.34	135.19	30.15	
	03/10/99	165.34	135.57	29.77	SVE, DPE, DPE-H2O
	03/12/99	165.34	135.51	29.83	SVE, DPE, DPE-H2O
	03/15/99	165.34	135.59	29.75	SVE, DPE, DPE-H2O
	03/17/99	165.34	135.54	29.80	SVE, DPE-H2O
	03/29/99	165.34	135.34	30.00	SVE, DPE-H2O
	04/07/99	165.34	DRY	--	SVE, DPE-H2O
	04/12/99	165.34	135.58	29.76	SVE, DPE-H2O
	04/23/99	165.34	135.22	30.12	SVE, DPE-H2O
	04/29/99	165.34	DRY	--	SVE, DPE-H2O
	05/17/99	165.34	135.66	29.68	SVE, DPE-H2O
	06/16/99	165.34	135.66	29.68	SVE, DPE-H2O
	06/25/99	165.34	135.28	30.06	DPE, DPE-H2O
	07/15/99	165.34	135.57	29.77	DPE-H2O
	08/30/99	165.34	135.58	29.76	5.6 inches water in vaccum
	09/27/99	165.34	135.58	29.76	5 inches water in vaccum
	11/02/99	165.34	135.56	29.78	
	11/09/99	165.34	135.73	29.61	
	11/23/99	165.34	135.27	30.07	
	11/23/99	165.34	135.13	30.21	
	11/23/99	165.34	135.14	30.20	
	12/06/99	165.34	135.70	29.64	
	01/26/00	165.34	136.71	28.63	
	02/07/00	165.34	135.49	29.85	
	07/05/00	165.34	135.03	30.31	
	01/16/01	145.52	115.25	30.27	
	03/19/01	145.52	115.34	30.18	
	03/26/01	145.52	115.24	30.28	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Perched Zone Water Levels (continued)					
P-07	04/03/01	145.52	115.30	30.22	
(Cont'd)	04/10/01	145.52	115.20	30.32	
	04/17/01	145.52	115.20	30.32	
	04/26/01	145.52	115.30	30.22	
	05/10/01	145.52	115.35	30.17	
	06/26/01	145.52	115.16	30.36	
	09/10/01	142.31	111.91	30.40	
	10/24/01	142.31	112.04	30.27	
	01/15/02	142.31	111.98	30.33	
	03/19/02	142.31	111.92	30.39	
	04/15/02	142.31	112.04	30.27	
	10/31/02	142.31	112.13	30.18	
	11/18/02	142.31	112.11	30.20	
	05/08/03	142.31	112.48	29.83	
	06/09/03	142.31	112.94	29.37	
	09/15/03	142.31	113.65	28.66	
	09/25/03	142.31	113.75	28.56	
	10/14/03	142.31	113.82	28.49	
	12/15/03	142.31	114.04	28.27	
	03/29/04	142.31	112.42	29.89	
	06/14/04	142.31	113.91	28.40	Dry to 117.4 feet bls. Water level elevation <24.9 feet msl.
	09/20/04	142.31	DRY	--	
	10/19/04	142.31	116.30	26.01	
	11/10/04	142.31	115.78	26.53	
	12/06/04	142.31	115.65	26.66	Dry @ 116.8 ft.
	03/15/05	142.31	DRY	--	
	06/20/05	142.31	114.50	27.81	Dry @ 115.0 ft bls.
	09/19/05	142.31	DRY	--	
	12/17/05	142.31	112.26	30.05	
	03/20/06	142.31	110.94	31.37	
	06/19/06	142.31	107.57	34.74	
	09/25/06	142.31	111.19	31.12	
	12/11/06	142.31	111.22	31.09	
	03/12/07	142.31	111.71	30.60	
	06/18/07	142.31	114.92	27.39	
	09/24/07	142.31	DRY	--	Dry @ 115.16 ft bls.
	12/10/07	142.31	DRY	--	
	03/17/08	142.31	114.58	27.73	
	06/23/08	142.31	114.13	28.18	
	09/22/08	142.31	113.85	28.46	
	12/15/08	142.31	113.47	28.84	
	03/16/09	142.31	113.13	29.18	
	06/22/09	142.31	112.81	29.50	
	08/31/09	142.31	112.67	29.64	
	12/07/09	142.31	112.52	29.79	
	03/01/10	142.31	112.34	29.97	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Perched Zone Water Levels (continued)					
P-07	03/03/10	142.31	112.42	29.89	
(Cont'd)	06/07/10	142.31	112.24	30.07	
	09/07/10	142.31	112.51	29.80	
	12/06/10	142.31	112.27	30.04	
	03/24/11	142.31	111.51	30.80	
	06/20/11	142.31	111.36	30.95	
	08/01/11	142.31	111.31	31.00	
	10/31/11	142.31	111.28	31.03	
	02/06/12	142.31	111.01	31.30	
	05/07/12	142.31	110.72	31.59	
	08/06/12	142.31	111.39	30.92	
	11/05/12	142.31	112.34	29.97	
	02/04/13	142.31	111.50	30.81	
	05/13/13	142.31	111.40	30.91	
	08/12/13	142.31	113.15	29.16	
	11/11/13	142.31	112.58	29.73	
	02/03/14	142.31	112.22	30.09	
	05/19/14	142.31	112.55	29.76	
	08/18/14	142.31	112.83	29.48	
	11/04/14	142.31	113.00	29.31	
	02/02/15	142.31	112.81	29.50	
	05/11/15	142.31	112.99	29.32	
	08/10/15	142.31	113.59	28.72	
	11/02/15	142.31	113.60	28.71	
	02/01/16	142.31	113.38	28.93	
	05/02/16	142.31	113.73	28.58	
	08/01/16	142.31	114.27	28.04	
	11/07/16	142.31	114.91	27.40	
	02/06/17	142.31	114.96	27.35	
	05/15/17	142.31	113.35	28.96	
	08/07/17	142.31	115.32	26.99	
	11/06/17	142.31	111.50	30.81	
	02/26/18	142.31	110.76	31.55	
	05/07/18	142.31	111.15	31.16	
	08/20/18	142.31	111.61	30.70	
	11/06/18	142.31	112.54	29.77	
	02/11/19	142.31	111.71	30.60	
P-09	09/15/03	183.86	121.85	62.01	
	10/08/03	183.86	121.68	62.18	
	10/14/03	183.86	121.53	62.33	
	12/15/03	183.86	122.09	61.77	
	03/29/04	183.86	122.03	61.83	
	06/14/04	183.86	122.29	61.57	
	09/20/04	183.86	122.49	61.37	
	11/10/04	183.86	122.00	61.86	
	12/06/04	183.86	121.85	62.01	
	03/14/05	183.86	121.45	62.41	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Perched Zone Water Levels (continued)					
P-09	06/20/05	183.86	121.50	62.36	
(Cont'd)	09/19/05	183.86	121.34	62.52	
	12/17/05	183.86	121.32	62.54	
	03/20/06	183.86	121.20	62.66	
	06/19/06	183.86	120.96	62.90	
	09/25/06	183.86	120.85	63.01	
	12/12/06	183.86	120.94	62.92	
	03/12/07	183.86	120.93	62.93	
	06/18/07	183.86	120.80	63.06	
	09/24/07	183.86	120.91	62.95	
	12/10/07	183.86	120.84	63.02	
	03/17/08	183.86	120.76	63.10	
	06/23/08	183.86	120.73	63.13	
	09/22/08	183.86	120.83	63.03	
	12/15/08	183.86	120.64	63.22	
	03/16/09	183.86	120.70	63.16	
	06/22/09	183.86	120.66	63.20	
	08/31/09	183.86	120.75	63.11	
	12/07/09	183.86	120.80	63.06	
	03/01/10	183.86	120.74	63.12	
	03/02/10	183.86	120.75	63.11	
	06/07/10	183.86	120.69	63.17	
	09/07/10	183.86	120.78	63.08	
	12/06/10	183.86	120.60	63.26	
	03/24/11	183.86	120.44	63.42	
	06/20/11	183.86	120.48	63.38	
	08/01/11	183.86	120.48	63.38	
	10/31/11	183.86	120.50	63.36	
	02/06/12	183.86	120.50	63.36	
	05/07/12	183.86	120.51	63.35	
	08/06/12	183.86	120.48	63.38	
	11/05/12	183.86	120.70	63.16	
	02/04/13	183.86	120.54	63.32	
	05/13/13	183.86	120.48	63.38	
	08/12/13	183.86	120.63	63.23	
	11/11/13	183.86	120.80	63.06	
	02/03/14	183.86	120.73	63.13	
	05/19/14	183.86	120.69	63.17	
	08/18/14	183.86	120.73	63.13	
	11/04/14	183.86	120.83	63.03	
	02/02/15	183.86	120.70	63.16	
	05/11/15	183.86	120.60	63.26	
	08/10/15	183.86	120.83	63.03	
	11/02/15	183.86	120.72	63.14	
	02/01/16	183.86	120.84	63.02	
	05/02/16	183.86	120.85	63.01	
	08/01/16	183.86	120.90	62.96	
	11/07/16	183.86	120.99	62.87	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Perched Zone Water Levels (continued)					
P-09	02/06/17	183.86	120.95	62.91	
(Cont'd)	05/15/17	183.86	120.76	63.10	
	08/07/17	183.86	120.83	63.03	
	11/06/17	183.86	120.83	63.03	
	02/26/18	183.86	120.77	63.09	
	05/07/18	183.86	120.70	63.16	
	08/20/18	183.86	120.71	63.15	
	11/06/18	183.86	120.86	63.00	
	02/11/19	183.86	120.95	62.91	

FOOTNOTES

(a) Reference point elevations are relative to City of Fullerton datum.

(>) = Greater than
(<) = Less than
(--) = Not Calculated
bls = Below land surface
msl = Mean sea level
NA = Reference Point Not Available
SVE = Soil Vapor Extraction System On
DPE = Vapor Phase Dual Vapor Extraction System On
DPE-H2O = Water Phase Dual Vapor Extraction System On
Pilot GETS = Pilot Groundwater Extraction and Treatment System On
UTM = Unable to Measure

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells																
MW-06	01/30/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-600	01/30/97	FD	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-06	02/19/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-06	02/09/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-06	05/08/01	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-06	04/17/02	ORG	< 0.50	< 0.50	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-06	04/17/02	SPT	< 0.50	< 0.50	**2.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-06	11/18/02	ORG	< 0.50	< 0.50	**2.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-06	06/10/03	ORG	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-06	12/17/03	ORG	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	06/16/04	ORG	< 0.50	< 0.50	**2.2 U**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/09/04	ORG	< 0.50	< 0.50	**2.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.1
MW-06	06/23/05	ORG	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/20/05	ORG	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	06/21/06	ORG	< 0.50	< 0.50	**0.62**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/18/06	ORG	< 0.50	< 0.50	**2.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	06/21/07	ORG	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/12/07	ORG	< 0.50	< 0.50	**0.78**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	06/26/08	ORG	< 0.50	< 0.50	**0.85 U**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	06/25/09	ORG	< 0.50	< 0.50	**0.52**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/08/09	ORG	< 0.50	< 0.50	**0.53**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-06	06/08/10	ORG	< 0.50	< 0.50	**0.56**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/10/10	ORG	< 0.50	< 0.50	**0.62**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	02/08/12	ORG	< 0.50	< 0.50	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-06	02/05/13	ORG	< 0.50	< 0.50	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-06	02/04/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-06	02/04/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.78**	NA
MW-06	02/02/16	ORG	< 0.50	< 0.50	**0.85**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-06	02/08/17	ORG	< 0.50	< 0.50	**0.94**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-06	03/01/18	ORG	< 0.50	< 0.50	**3.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-06	02/20/19	ORG	< 0.50	**0.19 J**	**13**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
Historical High/Low				**High**	**High**											
MW-06 Historical Range* **			< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 3.3	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 0.78	< 0.20 - < 2.0
MW-08	01/28/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.3**	< 1.0	< 1.0	NA
MW-08	02/19/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.9**	< 1.0	< 1.0	NA
MW-08	02/17/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-08	05/09/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-08	04/17/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	< 0.50	< 0.50	< 0.50	**8.5**	< 0.50	< 0.50	< 0.5
MW-08	04/17/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.0**	< 0.50	< 0.50	< 1.0
MW-08	11/21/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.2**	< 0.50	< 0.50	< 0.50	< 0.50	**7.6**	< 0.50	< 0.50	NA
MW-08	06/11/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.98**	**0.67**	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	NA
MW-08	12/18/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.6**	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**	< 0.50	< 0.50	NA
MW-08	03/30/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	**0.52**	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	NA
MW-08	06/17/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**64**	**5.6**	< 0.50	< 0.50	< 0.50	**89**	< 0.50	< 0.50	NA
MW-800	06/17/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**60**	**5.1**	< 0.50	< 0.50	< 0.50	**87**	< 0.50	< 0.50	NA
MW-08	06/17/04	SPT	< 1	< 1	< 1	< 1	< 1	**48**	**4.0**	< 1	< 1	< 1	**65**	< 1	< 1	NA
MW-08	07/28/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23 E**	**2.5**	< 0.50	< 0.50	< 0.50	**40 E**	< 0.50	< 0.50	< 2
MW-800	07/28/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23 E**	**2.1**	< 0.50	< 0.50	< 0.50	**39 E**	< 0.50	< 0.50	< 2
MW-08	07/28/04	SPT	< 1	< 1	< 1	< 1	< 1	**13 E**	**1.0**	< 1	< 1	< 1	**23 E**	< 1	< 1	< 1
MW-08	09/21/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.4**	**1.0**	< 0.50	< 0.50	< 0.50	**19**	< 0.50	< 0.50	NA
MW-08	12/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.7**	**0.61**	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	< 2.2
MW-08	03/16/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.7**	**0.65**	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	< 2.0
MW-08	06/24/05	ORG	**0.85**	< 0.50	< 0.50	< 0.50	< 0.50	**180**	**7.7**	< 0.50	< 0.50	< 0.50	**130**	< 0.50	< 0.50	< 2.0
MW-800	06/24/05	FD	**0.87**	< 0.50	< 0.50	< 0.50	< 0.50	**160**	**7.6**	< 0.50	< 0.50	< 0.50	**130**	< 0.50	< 0.50	< 2.0
MW-08	09/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**45 E**	**3.4**	< 0.50	< 0.50	< 0.50	**61 E**	< 0.50	< 0.50	< 2.0
MW-800	09/22/05	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22 E**	**2.1**	< 0.50	< 0.50	< 0.50	**39**	< 0.50	< 0.50	**20 U**
MW-08	09/22/05	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15 E**	**2.0**	< 0.50	< 0.50	< 0.50	**33 E**	**0.90**	< 0.50	< 1.0
MW-08	12/20/05	ORG	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**370**	**3.2**	**0.66**	< 0.50	< 0.50	**82**	< 0.50	< 0.50	**12**
MW-08	12/20/05	SPT	< 0.50	**0.50**	< 0.50	**2.0**	< 0.50	**350**	**3.0**	< 0.50	< 0.50	< 0.50	**76**	**0.50**	< 0.50	**13**
MW-08	03/23/06	ORG	< 0.50	< 0.50	**0.76**	**3.6**	**0.92**	**270**	**2.5**	**0.55**	< 0.50	< 0.50	**55**	< 0.50	< 0.50	**65**
MW-800	03/23/06	FD	< 0.50	< 0.50	**0.82**	**4.7**	**1.0**	**380**	**2.9**	**0.74**	< 0.50	< 0.50	**65**	< 0.50	< 0.50	**81**
MW-08	06/22/06	ORG	< 0.50	< 0.50	**0.69**	**5.1**	**0.99**	**500**	**2.6**	**1.3**	< 0.50	< 0.50	**69**	< 0.50	< 0.50	**130**
MW-800	06/22/06	FD	< 0.50	< 0.50	**0.69**	**5.0**	**1.0**	**410**	**2.5**	**1.2**	< 0.50	< 0.50	**69**	< 0.50	< 0.50	**110**
MW-08	06/22/06	SPT	< 3.0	< 3.0	< 3.0	**6.0**	< 3.0	**380**	**3.0**	< 3.0	< 3.0	< 3.0	**50**	< 3.0	< 3.0	**140**
MW-08	09/28/06	ORG	**0.95**	< 0.50	< 0.50	< 0.50	< 0.50	**27**	**6.5**	< 0.50	< 0.50	< 0.50	**120**	< 0.50	< 0.50	< 2.0
MW-800	09/28/06	FD	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	**24**	**7.7**	< 0.50	< 0.50	< 0.50	**110**	< 0.50	< 0.50	< 2.0
MW-08	09/28/06	SPT	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	**28**	**6.2**	< 0.50	< 0.50	< 0.50	**130**	< 0.50	< 0.50	< 1
MW-08	12/19/06	ORG	**0.93**	< 0.50	< 0.50	< 0.50	< 0.50	**13**	**7.1**	< 0.50	< 0.50	< 0.50	**130**	< 0.50	< 0.50	< 2.0
MW-800	12/19/06	FD	**0.95**	< 0.50	< 0.50	< 0.50	< 0.50	**14**	**7.1**	< 0.50	< 0.50	< 0.50	**110**	< 0.50	< 0.50	< 2.0
MW-08	03/15/07	ORG	< 0.50	< 0.50	< 0.50	**0.57**	< 0.50	**120**	**4.5**	< 0.50	< 0.50	< 0.50	**90**	< 0.50	< 0.50	**26**
MW-08	06/22/07	ORG	< 0.50	< 0.50	**0.50**	**0.51**	< 0.50	**87**	**4.4**	< 0.50	< 0.50	< 0.50	**92**	< 0.50	< 0.50	**25**
MW-08	09/26/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32 E**	**1.5**	< 0.50	< 0.50	< 0.50	**25**	< 0.50	< 0.50	**7.7**
MW-800	09/26/07	FD	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	**47 E**	**1.5**	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	**8.2**
MW-08	09/26/07	SPT	< 1	< 1	< 1	< 1	< 1	**42 E**	**1.0**	< 1	< 1	< 1	**26**	< 1	< 1	**11**
MW-08	12/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**39**	**1.3**	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	**6.0**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-08	03/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**28**	**0.97**	< 0.50	< 0.50	< 0.50	**19**	< 0.50	< 0.50	**5.4**
MW-800	03/18/08	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**30**	**1.1**	< 0.50	< 0.50	< 0.50	**20**	< 0.50	< 0.50	**5.3**
MW-08	03/18/08	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**	**0.9**	< 0.50	< 0.50	< 0.50	**21**	**0.60**	< 0.50	**7.0**
MW-08	06/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**	**1.3**	< 0.50	< 0.50	< 0.50	**23**	< 0.50	< 0.50	**5.9**
MW-08	09/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	**1.0**	< 0.50	< 0.50	< 0.50	**18**	< 0.50	< 0.50	**3.7 BU**
MW-08	12/19/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23**	**0.7**	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	**3.9**
MW-08	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	**1.2**	< 0.50	< 0.50	< 0.50	**21**	< 0.50	< 0.50	**3.9**
MW-08	06/25/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	**1.1**	< 0.50	< 0.50	< 0.50	**23**	< 0.50	< 0.50	**2.7**
MW-08	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**	**0.56**	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	**2.4**
MW-08	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	**0.68**	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	**7.2**
MW-08	03/03/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**33**	**0.87**	< 0.50	< 0.50	< 0.50	**21**	< 0.50	< 0.50	**8.4**
MW-08	06/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**35**	**7.1**	< 0.50	< 0.50	< 0.50	**110**	< 0.50	< 0.50	< 2.0
MW-08	09/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**36**	**9.8**	< 0.50	< 0.50	< 0.50	**200**	< 0.50	< 0.50	**2.4**
MW-08	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**	**6.0**	< 0.50	< 0.50	< 0.50	**110**	< 0.50	< 0.50	< 2.0
MW-08	03/30/11	ORG	**0.84**	< 0.50	**0.69**	< 0.50	< 0.50	**38**	**10**	< 0.50	< 0.50	< 0.50	**230**	< 0.50	< 0.50	< 0.20
MW-08	06/24/11	ORG	**0.57**	< 0.50	**0.65**	< 0.50	< 0.50	**67**	**9.4**	< 0.50	< 0.50	< 0.50	**210**	< 0.50	< 0.50	**0.75**
MW-800	06/24/11	FD	**0.56**	< 0.50	**0.67**	< 0.50	< 0.50	**68**	**9.0**	< 0.50	< 0.50	< 0.50	**220**	< 0.50	< 0.50	**0.59**
MW-08	08/02/11	ORG	**0.64**	< 0.50	**0.86**	< 0.50	< 0.50	**190**	**13**	< 0.50	< 0.50	< 0.50	**480**	< 0.50	< 0.50	**0.69**
MW-08	11/04/11	ORG	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	**39.4**	**9.2**	< 0.50	< 0.50	< 0.50	**200**	< 0.50	< 0.50	**0.40**
MW-0800	11/04/11	FD	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	**39.5**	**7.6**	< 0.50	< 0.50	< 0.50	**170**	< 0.50	< 0.50	**0.40**
MW-08	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**	**8.4**	< 0.50	< 0.50	< 0.50	**170**	< 0.50	< 0.50	**0.94**
MW-08	05/11/12	ORG	< 1.0	< 1.0	< 1.0	**1.4**	< 1.0	**340**	**5.0**	**1.1**	< 1.0	< 1.0	**120**	< 1.0	< 1.0	**6.3**
MW-08	08/09/12	ORG	< 0.50	< 0.50	**0.67**	< 0.50	< 0.50	**52**	**6.0**	< 0.50	< 0.50	< 0.50	**120**	< 0.50	< 0.50	**0.38**
MW-08	11/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	**2.6**	< 0.50	< 0.50	< 0.50	**57**	< 0.50	< 0.50	**4.4**
MW-08	02/08/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	**1.8**	< 0.50	< 0.50	< 0.50	**41**	< 0.50	< 0.50	**1.1**
MW-08	05/15/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	**2.0**	< 0.50	< 0.50	< 0.50	**41**	< 0.50	< 0.50	**1.3**
MW-08	08/15/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**	**1.6**	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	**1.0**
MW-08	11/12/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	**0.81**	< 0.50	< 0.50	< 0.50	**17**	< 0.50	< 0.50	**0.50**
MW-08	02/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.9**	**0.62**	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	**0.53**
MW-08	05/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.4**	**0.83**	< 0.50	< 0.50	< 0.50	**16**	< 0.50	< 0.50	**1.7**
MW-08	08/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.7**	**0.62**	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	**0.31**
MW-08	11/11/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.7**	**0.68**	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	< 0.20
MW-08	02/05/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.8**	**0.98**	< 0.50	< 0.50	< 0.50	**21**	< 0.50	< 0.50	**1.1**
MW-08	05/13/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	**1.1**	< 0.50	< 0.50	< 0.50	**25**	< 0.50	**2.3**	**0.29**
MW-08[(1)]	08/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.8**	**1.9**	< 0.50	< 0.50	< 0.50	**32**	< 0.50	< 0.50	**0.71**
MW-08	11/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**0.94**	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	**0.35**
MW-08	02/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.8**	**2.0**	< 0.50	< 0.50	< 0.50	**22**	< 0.50	< 0.50	**0.40**
MW-08	05/03/16	ORG	< 0.50	< 0.50	**0.65**	< 0.50	< 0.50	**25**	**9.6**	< 0.50	< 0.50	< 0.50	**140**	< 0.50	< 0.50	**0.70**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-08	08/01/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.0**	**2.8**	< 0.50	< 0.50	< 0.50	**38**	< 0.50	< 0.50	< 0.20
MW-08	11/08/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.6**	**1.2**	< 0.50	< 0.50	< 0.50	**19**	< 0.50	< 0.50	< 0.20
MW-08	02/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	**1.1**	< 0.50	< 0.50	< 0.50	**22**	< 0.50	< 0.50	< 0.20
MW-08	05/16/17	ORG	< 0.50	< 0.50	**0.57**	< 0.50	< 0.50	**29**	**7.7**	< 0.50	< 0.50	< 0.50	**150**	< 0.50	< 0.50	**0.960 J**
MW-08	08/09/17	ORG	< 0.50	< 0.50	**0.71**	< 0.50	**0.15 J**	**36**	**9.0**	< 0.50	< 0.50	< 0.50	**150**	< 0.50	< 0.50	**0.28**
MW-08	11/07/17	ORG	< 0.50	< 0.50	**0.54**	**0.39 J**	< 0.50	**96**	**5.9**	**0.36 J**	< 0.50	< 0.50	**140**	< 0.50	< 0.50	**0.16 J**
MW-08	02/27/18	ORG	< 0.50	< 0.50	**0.74**	**1.6**	< 0.50	**230**	**7.1**	**0.49 J**	< 0.50	< 0.50	**140**	< 0.50	< 0.50	**9.6**
MW-08	05/10/18	ORG	< 0.50	< 0.50	**0.68**	< 0.50	< 0.50	**25**	**3.8**	< 0.50	< 0.50	< 0.50	**90**	**0.50**	< 0.50	**0.43**
MW-08	08/22/18	ORG	**0.28 J**	< 0.50	**0.56**	< 0.50	< 0.50	**19**	**6.7**	**0.19 J**	< 0.50	< 0.50	**120**	< 0.50	< 0.50	< 0.20
MW-08	11/07/18	ORG	**0.15 J**	< 0.50	**0.49 J**	**0.23 J**	< 0.50	**43 E**	**5.2**	**0.22 J**	< 0.50	< 0.50	**120**	< 0.50	< 0.50	**2.4**
MW-0800	11/07/18	FD	**0.15 J**	< 0.50	**0.47 J**	**0.22 J**	< 0.50	**34 E**	**4.6**	**0.20 J**	< 0.50	< 0.50	**110**	< 0.50	< 0.50	**2.0**
MW-08	11/07/18	SPT	**0.22 J**	< 0.50	**0.58 J**	**0.29 J**	< 0.50	**74 E**	**5.4**	< 1.0	< 1.0	< 1.0	**170**	< 10	< 1.0	**2.4**
MW-08	02/19/19	ORG	**0.10 J**	< 0.50	**0.43 J**	**0.44 J**	< 0.50	**75**	**3.8**	**0.24 J**	< 0.50	< 0.50	**93**	< 0.50	< 0.50	**6.7**
MW-08 Historical Range* **			< 0.50 - 0.95	< 0.50 - 0.50	< 0.50 - 0.86	< 0.50 - 5.1	< 0.50 - 0.99	< 0.50 - 500	< 0.50 - 13	< 0.50 - 1.3	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 480	< 0.50 - 1.0	< 0.50 - 2.3	< 0.20 - 130
MW-09	03/26/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-09	04/10/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-09	02/17/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-09	11/21/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**	< 0.50	**7.6**
MW-900	11/21/02	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	**7.7**
MW-09	11/21/02	SPT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.0**	< 1.0	**6.8**
MW-09	06/10/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	**4.0**
MW-900	06/10/03	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	< 0.50	**7.4**
MW-09	06/10/03	SPT	< 1	< 1	< 1	< 1	< 1	**2.0**	< 1	< 1	< 1	< 1	< 1	**2.0**	< 1	**3.8**
MW-09	09/24/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	12/18/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.81**	< 0.50	< 2.0
MW-900	12/18/03	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 2.0
MW-09	03/30/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 2.0
MW-09	06/16/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/21/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	< 2.0
MW-09	12/08/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 2.1
MW-09	03/15/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.69**	< 0.50	< 2.2
MW-09	03/15/05	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**3.0**
MW-09	06/23/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.82**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	12/20/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.85**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	03/22/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)														Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																	
MW-09	09/28/06	ORG	< 0.50	< 0.50	< 0.50	**0.79**	< 0.50	**32**	< 0.50	< 0.50	< 0.50	< 0.50	**0.96**	< 0.50	< 0.50	**52 E**
MW-09	12/19/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 E
MW-900	12/19/06	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.1 E**
MW-09	03/14/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/26/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	12/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.75**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	03/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.65**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**
MW-09	06/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.54**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	12/08/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5
MW-09	03/03/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	06/11/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09	08/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.59**
MW-09	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09	08/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09	02/08/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09	08/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09	02/05/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30**
MW-09	08/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**
MW-09	02/05/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.62**
MW-09	08/11/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
MW-09	02/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.54**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**
MW-09	08/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09	02/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09	08/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.27 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09	02/27/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09	08/23/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09	02/15/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09 Historical Range* **			< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 0.79	< 0.50 - < 5.0	< 0.50 - 4.9	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 0.96	< 0.50 - 5.3	< 0.50 - < 5.0	< 0.20 - 52 E
MW-13	04/22/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	NA
MW-13	05/21/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-13	02/15/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-13	07/06/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 3.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-13	05/07/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-13	10/24/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-13	04/17/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-13	04/17/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-13	11/19/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.78**	< 0.50	< 0.5
MW-13	06/10/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.5
MW-13	12/16/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	< 2.0
MW-13	06/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 2.0
MW-13	12/08/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	< 2.1
MW-13	06/23/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	**3.8**	< 0.50	< 2.0
MW-13	12/19/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	**3.7**	< 0.50	< 2.0
MW-13	06/22/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.58**	**3.5**	< 0.50	**2.4**
MW-13	09/29/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.5**	< 0.50	< 2.0
MW-13	09/29/06	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	**3.0**	< 0.50	< 1
MW-13	12/14/06	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.3**	< 1.0	< 2.0
MW-13	06/21/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 2.0
MW-13	12/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-13	06/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 2.0
MW-13	12/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 2.5
MW-13	06/24/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 2.0
MW-13	12/08/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 2.0
MW-13	06/11/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	< 0.50	< 2.0
MW-13	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 2.0
MW-13	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**	< 0.50	< 0.20
MW-13	02/06/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.0**	< 0.50	< 0.20
MW-13	02/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**	< 0.50	< 0.20
MW-13	02/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**	< 0.50	< 0.20
MW-13	02/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.6**	< 0.50	< 0.20
MW-13	02/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.3**	< 0.50	< 0.20
MW-13	02/27/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.8**	< 0.50	< 0.20
MW-13	02/19/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.15 J**	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.20
Historical High/Low										**High**						
MW-13 Historical Range* **			< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 1.5	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 0.60	< 0.50 - 7.6	< 0.50 - < 5.0	< 0.20 - 2.4
MW-15	05/27/98	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.0**	< 5.0	< 5.0	NA
MW-15	06/11/98	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.5**	**20**	< 5.0	NA
MW-15	02/16/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.9**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**9.6**	< 5.0	NA
MW-1500	02/16/00	FD	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**6.7**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**9.8**	< 5.0	NA
MW-15	07/05/00	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**8.4**	< 1.0	< 1.0	< 1.0	< 1.0	**1.9**	**4.7**	< 1.0	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-15	07/05/00	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**10**	< 1.0	< 1.0	< 1.0	< 1.0	**2.4**	< 0.50	< 1.0	< 3.0
MW-15	05/08/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	**7.8**	< 0.50	< 0.50	NA
MW-15	10/25/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-15	04/18/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-15	04/18/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-15	11/21/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	< 0.50	NA
MW-15	06/11/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-15	09/23/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	NA
MW-15	12/18/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-15	03/30/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	NA
MW-15	06/17/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	**5.1**	< 0.50	NA
MW-15	09/21/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.6**	**10**	< 0.50	NA
MW-15	12/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.7**	**11**	< 0.50	NA
MW-15	03/15/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.0**	**9.4**	< 0.50	NA
MW-15	03/15/05	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	**7.5**	< 0.50	NA
MW-15	06/23/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.4**	**11**	< 0.50	NA
MW-15	09/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	**13**	< 0.50	NA
MW-15	12/20/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	**9.2**	< 0.50	NA
MW-15	03/22/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**11**	< 0.50	NA
MW-15	06/22/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.7**	**10**	< 0.50	NA
MW-15	09/29/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	< 0.50	NA
MW-1500	09/29/06	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	**12**	< 0.50	NA
MW-15	12/19/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.9**	**8.0**	< 0.50	< 2.0
MW-15	03/15/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	**5.8**	< 0.50	< 2.0
MW-15	06/22/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**	**12**	< 0.50	< 2.0
MW-15	09/26/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	**5.9**	< 0.50	< 2.0
MW-1500	09/26/07	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**6.6**	< 0.50	< 2.0
MW-15	09/26/07	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**3.0**	**5.0**	< 1	< 1
MW-15	12/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	**7.2**	< 0.50	< 2.0
MW-15	03/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	**5.5**	< 0.50	< 2.0
MW-15	06/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**5.8**	< 0.50	< 2.0
MW-15	09/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.7**	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	**3.3**	< 0.50	< 2.0
MW-15	12/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.8**	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	**1.9**	< 0.50	NA
MW-15	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	**2.6**	< 0.50	NA
MW-15	06/24/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.8**	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	**1.9**	< 0.50	NA
MW-15	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.4**	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	**2.1**	< 0.50	NA
MW-15	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.5**	< 0.50	< 0.50	< 0.50	< 0.50	**0.94**	**2.0**	< 0.50	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-15	03/03/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.73**	**1.6**	< 0.50	NA
MW-15	06/11/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 2.0
MW-15	09/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	NA
MW-15	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	**1.7**	< 0.50	NA
MW-15	03/28/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.88**	< 0.50	< 0.50	< 0.50	< 0.50	**3.4**	**6.8**	< 0.50	NA
MW-15	08/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**	**7.7**	< 0.50	NA
MW-15	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	**9.1**	< 0.50	NA
MW-15	08/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	**14**	< 0.50	NA
MW-15	02/07/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	**5.8**	< 0.50	NA
MW-15	08/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	**8.6**	< 0.50	NA
MW-15	02/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	**8.4**	< 0.50	NA
MW-15	08/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	**7.0**	< 0.50	NA
MW-15	02/05/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.5**	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	**6.0**	< 0.50	NA
MW-15	08/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.86**	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**8.4**	< 0.50	NA
MW-15	02/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	**4.0**	< 0.50	NA
MW-15	08/01/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.8**	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	**6.6**	< 0.50	NA
MW-15	02/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.55**	**2.0**	< 0.50	NA
MW-15	08/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.7**	**8.2**	< 0.50	NA
MW-15	02/27/18	ORG	< 0.50	< 0.50	**0.22 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	**11**	< 0.50	NA
MW-15	08/21/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.9**	< 0.50	< 0.50	< 0.50	< 0.50	**0.89**	**3.1**	< 0.50	NA
MW-15	02/13/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	**5.9**	< 0.50	NA
MW-15 Historical Range* **			< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 0.22 J	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 12	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 7.8	< 0.50 - 20	< 0.50 - < 5.0	< 0.50 - < 2.0
MW-16[a]	11/05/99	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**317**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-16[a]	11/05/99	SPT	< 1.0	< 1.0	< 1.0	**3.6**	< 1.0	**510**	< 1.0	< 1.0	**5**	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-16	11/23/99	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**73**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-16[b]	11/23/99	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**99**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-16	12/07/99	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**49**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-16	12/07/99	SPT	< 2	< 5.0	< 5.0	< 2	< 5.0	**44**	< 2	< 2	< 2	< 2	< 2	< 5.0	< 5.0	NA
MW-16	02/18/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**238**	< 5.0	< 5.0	**11**	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-1600	02/18/00	FD	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**264**	< 5.0	< 5.0	**10**	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-16	07/05/00	ORG	< 0.50	< 0.50	**0.59**	**9.4**	**1.5**	**1,100 E**	< 0.50	**2.0**	**28 E**	**4.3**	**2.2**	< 0.50	< 0.50	**133**
MW-1600	07/05/00	FD	**0.54**	< 0.50	**0.56**	**9.2**	**1.5**	**1,100 E**	< 0.50	**1.7**	**26 E**	**4.0**	**2.0**	< 0.50	< 0.50	**77**
MW-16	07/05/00	SPT	NA	**0.80**	**0.80**	**13.4**	**1.9**	**2,400 E**	NA	**2.0**	**41.5 E**	**2.8**	**2.5**	< 0.50	< 0.50	**63.05**
MW-1600	05/10/01	FD	< 5.0	< 5.0	< 5.0	**12**	**2.0 J**	**870**	< 5.0	**2.0 J**	**20**	**3.0 J**	**2.0 J**	< 5.0	< 5.0	**174 E**
MW-16	05/10/01	ORG	< 5.0	< 5.0	**0.50 J**	**11**	**2.0 J**	**790**	< 5.0	**0.90 J**	**18**	**3.0 J**	**1.0 J**	< 5.0	< 5.0	**165 E**
MW-16	05/10/01	SPT	< 5.0	< 5.0	< 5.0	**9.0**	< 5.0	**940**	< 5.0	< 5.0	**20**	< 5.0	< 5.0	< 5.0	< 5.0	**270 E**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-16	10/23/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**88**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 3.0
MW-16	10/23/01	SPT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**99**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.0**
MW-16	04/16/02	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**500**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**190**
MW-1600	04/16/02	FD	< 5.0	< 5.0	< 5.0	**6.0**	< 5.0	**420**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**190**
MW-16	04/16/02	SPT	< 3.0	< 3.0	< 3.0	**5.0**	< 3.0	**350**	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	**281**
MW-16	11/20/02	ORG	< 2.5	< 2.5	< 2.5	**7.1**	< 2.5	**440**	< 2.5	< 2.5	**3.6**	**3.7**	< 2.5	< 2.5	< 2.5	**420**
MW-16	06/11/03	ORG	< 0.50	< 0.50	< 0.50	**4.1**	**1.1**	**390**	< 0.50	**0.72**	**1.1**	**2.3**	**1.0**	< 0.50	< 0.50	**230**
MW-16	09/24/03	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	**0.61**	< 0.50	< 0.50	**12**
MW-16	12/17/03	ORG	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	**240**	< 0.50	**0.58**	< 0.50	**1.4**	**1.1**	< 0.50	< 0.50	**45**
MW-16	12/17/03	SPT	< 1.0	< 1.0	< 1.0	**3**	< 1.0	**200**	< 1.0	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0	< 1.0	**100**
MW-16	03/31/04	ORG	< 0.50	< 0.50	< 0.50	**8.2**	< 0.50	**590**	< 0.50	**1.9**	**1.8**	**5.6**	**1.9**	< 0.50	< 0.50	**180**
MW-1600	03/31/04	FD	< 0.50	< 0.50	< 0.50	**8.3**	< 0.50	**590**	< 0.50	**1.9**	**1.8**	**5.6**	**1.8**	< 0.50	< 0.50	**180**
MW-16	06/18/04	ORG	< 0.50	< 0.50	**0.98 U**	**14**	< 0.50	**870**	**0.50**	**2.7**	**2.6**	**10**	**2.8**	< 0.50	< 0.50	**400**
MW-16	09/22/04	ORG	< 0.50	< 0.50	< 0.50	**2**	< 0.50	**260**	< 0.50	< 0.50	< 0.50	**0.51**	**1.0**	< 0.50	< 0.50	**11**
MW-16	12/10/04	ORG	< 0.50	< 0.50	< 0.50	**3.7**	< 0.50	**900**	< 0.50	**0.61**	< 0.50	**1.0**	**1.8**	< 0.50	< 0.50	**26**
MW-16	03/17/05	ORG	< 0.50	**0.58**	**1.1**	**18**	**4.5**	**1,900**	**0.57**	**2.9**	**2.0**	**10**	**3.7**	< 0.50	< 0.50	**250**
MW-1600	03/17/05	FD	< 0.50	**0.58**	**1.1**	**17**	**4.2**	**1,400**	**0.51**	**2.7**	**1.9**	**9.8**	**3.6**	< 0.50	< 0.50	**290**
MW-16	06/24/05	ORG	< 0.50	< 0.50	< 0.50	**6.9**	**1.7**	**710**	< 0.50	**1.3**	< 0.50	**4.2**	**2.3**	< 0.50	< 0.50	**110**
MW-16	09/22/05	ORG	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	**320**	< 0.50	< 0.50	< 0.50	**0.88**	**1.7**	< 0.50	< 0.50	< 2.0
MW-16	12/21/05	ORG	< 0.50	< 0.50	< 0.50	**4.3**	**1.2**	**370**	< 0.50	**1.1**	< 0.50	**2.2**	**1.2**	< 0.50	< 0.50	**190**
MW-1600	12/21/05	FD	< 0.50	< 0.50	< 0.50	**3.8**	**1.1**	**320**	< 0.50	**0.99**	< 0.50	**1.9**	**1.1**	< 0.50	< 0.50	**180**
MW-16	03/22/06	ORG	< 0.50	< 0.50	< 0.50	**3.1**	**1.1**	**210**	< 0.50	**0.70**	< 0.50	**1.4**	**0.63**	< 0.50	< 0.50	**110**
MW-16	06/22/06	ORG	< 0.50	< 0.50	< 0.50	**2.7**	**0.85**	**240**	< 0.50	**0.95**	< 0.50	**1.7**	**0.86**	< 0.50	< 0.50	**140**
MW-16	09/28/06	ORG	< 0.50	< 0.50	< 0.50	**2.6**	< 0.5	**280**	< 0.50	**0.51**	< 0.50	**0.93**	**1.4**	< 0.50	< 0.50	**130**
MW-16	12/15/06	ORG	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**220**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**64**
MW-16	03/14/07	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**270**	< 0.50	< 0.50	< 0.50	**0.91**	**2.0**	< 0.50	< 0.50	**54**
MW-16	03/14/07	SPT	< 2	< 2	< 2	**2.0**	< 2	**270**	< 2	< 2	< 2	< 2	< 2	< 2	< 2	**71**
MW-16	06/20/07	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**140**	< 1.0	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	**25**
MW-16	09/27/07	ORG	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	**330**	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 0.50	**14**
MW-16	12/13/07	ORG	< 0.50	< 0.50	< 0.50	**2.7**	< 0.50	**320**	< 0.50	< 0.50	< 0.50	< 0.50	**2.8**	< 0.50	< 0.50	**17**
MW-16	03/19/08	ORG	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**330**	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	< 0.50	**30 U**
MW-16	06/24/08	ORG	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**480**	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	< 0.50	**13**
MW-16	09/25/08	ORG	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	**820**	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	**19 B**
MW-1600	09/25/08	FD	< 0.50	< 0.50	< 0.50	**4.8**	< 0.50	**800**	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	< 0.50	**21 B**
MW-16	09/25/08	SPT	< 1.0	< 1.0	< 1.0	**4.0**	< 1.0	**880**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**26**
MW-16	12/19/08	ORG	< 2.5	< 2.5	< 2.5	**5.2**	< 2.5	**1,100**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**27**
MW-1600	12/19/08	FD	< 2.5	< 2.5	< 2.5	**5.4**	< 2.5	**1,100**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**29**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-16	03/17/09	ORG	< 5.0	< 5.0	< 5.0	**8.9**	< 5.0	**1,500**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**65**
MW-1600	03/17/09	FD	< 5.0	< 5.0	< 5.0	**9.1**	< 5.0	**1,500**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**62**
MW-16	06/24/09	ORG	< 2.5	< 2.5	< 2.5	**6.1**	< 2.5	**790**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**360**
MW-16	09/02/09	ORG	< 2.5	< 2.5	< 2.5	**7.0**	< 2.5	**1,100**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**73**
MW-16	12/09/09	ORG	< 2.5	< 2.5	< 2.5	**5.5**	< 2.5	**910**	< 2.5	< 2.5	< 2.5	< 2.5	**3.0**	< 2.5	< 2.5	**100**
MW-16	03/03/10	ORG	< 1.0	< 1.0	< 1.0	**4.8**	**1.5**	**590**	< 1.0	< 1.0	< 1.0	**2.1**	**4.3**	< 1.0	< 1.0	**440**
MW-16	06/11/10	ORG	< 1.0	< 1.0	< 1.0	**4.6**	< 1.0	**560**	< 1.0	< 1.0	< 1.0	**1.3**	**4.5**	< 1.0	< 1.0	**180**
MW-16	06/11/10	SPT	< 1.0	< 1.0	< 1.0	**4.0**	< 1.0	**620**	< 1.0	< 1.0	< 1.0	**1.0**	**4.0**	< 1.0	< 1.0	**210**
MW-16	09/09/10	ORG	< 1.0	< 1.0	< 1.0	**3.1**	< 1.0	**540**	< 1.0	< 1.0	< 1.0	< 1.0	**4.9**	< 1.0	< 1.0	**45**
MW-16	12/09/10	ORG	< 1.0	< 1.0	< 1.0	**3.0**	< 1.0	**630**	< 1.0	< 1.0	< 1.0	< 1.0	**4.0**	< 1.0	< 1.0	**31**
MW-16	03/28/11	ORG	< 1.0	< 1.0	< 1.0	**7.8**	**1.7**	**680**	< 1.0	**1.5**	**3.6**	< 1.0	**4.1**	< 1.0	< 1.0	**99**
MW-16	08/05/11	ORG	< 1.0	< 1.0	< 1.0	**8.9**	**1.5**	**910**	< 1.0	**1.1**	**3.6**	**2.9**	**5.3**	< 1.0	< 1.0	**260**
MW-16	02/07/12	ORG	< 1.0	< 1.0	< 1.0	**2.3**	< 1.0	**95**	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0	< 1.0	**44**
MW-16	08/10/12	ORG	< 0.50	< 0.50	< 0.50	**3.5**	< 0.50	**560**	< 0.50	**0.57**	< 0.50	**0.52**	**4.2**	< 0.50	< 0.50	**24**
MW-16	02/06/13	ORG	< 1.0	< 1.0	< 1.0	**3.9**	< 1.0	**680**	< 1.0	< 1.0	< 1.0	< 1.0	**4.5**	< 1.0	< 1.0	**49**
MW-16	08/14/13	ORG	< 1.2	< 1.2	< 1.2	**5.2**	< 1.2	**770**	< 1.2	< 1.2	< 1.2	< 1.2	**5.7**	< 1.2	< 1.2	**36**
MW-16	02/05/14	ORG	< 1.0	< 1.0	< 1.0	**4.9**	< 1.0	**750**	< 1.0	< 1.0	< 1.0	< 1.0	**5.4**	< 1.0	< 1.0	**33**
MW-1600	02/05/14	FD	< 0.50	< 0.50	< 0.50	**4.1**	**0.52**	**630**	< 0.50	**0.89**	< 0.50	< 0.50	**6.1**	< 0.50	< 0.50	**33**
MW-16	02/05/14	SPT	< 0.50	< 0.50	< 1.0	**5.1**	< 0.50	**780**	< 1.0	< 1.0	< 1.0	< 1.0	**5.8**	< 10	< 1.0	**45**
MW-16	08/20/14	ORG	< 1.0	< 1.0	< 1.0	**4.0**	< 0.50	**820**	< 1.0	< 1.0	< 1.0	< 1.0	**6.4**	< 1.0	< 1.0	**38**
MW-16	02/05/15	ORG	< 5.0	< 5.0	< 5.0	**9.8**	< 5.0	**1,200**	< 5.0	< 5.0	< 5.0	< 5.0	**7.1**	< 5.0	< 5.0	**440**
MW-16	08/12/15	ORG	<2.5	<2.5	<2.5	**5.4**	<2.5	**1,100**	<2.5	<2.5	<2.5	<2.5	**6.2**	<2.5	<2.5	**46**
MW-1600	08/12/15	FD	<2.5	<2.5	<2.5	**5.8**	<2.5	**1,100**	<2.5	<2.5	<2.5	<2.5	**6.0**	<2.5	<2.5	**45**
MW-16	08/12/15	SPT	<2.5	<2.5	< 5.0	**5.5**	<2.5	**930**	< 5.0	< 5.0	< 5.0	< 5.0	**10**	<2.5	< 5.0	**47**
MW-16	02/04/16	ORG	<2.5	<2.5	<2.5	**7.5**	<2.5	**1,500**	<2.5	<2.5	<2.5	<2.5	**5.2**	<2.5	<2.5	**52**
MW-16	08/02/16	ORG	<2.5	<2.5	<2.5	**6.2**	<2.5	**1,000**	<2.5	<2.5	<2.5	<2.5	**6.2**	<2.5	<2.5	**27**
MW-1600	08/02/16	FD	<2.5	<2.5	<2.5	**5.3**	<2.5	**1,000**	<2.5	<2.5	<2.5	<2.5	**6.4**	<2.5	<2.5	**29**
MW-16	02/07/17	ORG	<2.5	<2.5	<2.5	**6.8**	<2.5	**890**	<2.5	<2.5	<2.5	<2.5	**3.8**	<2.5	<2.5	**240**
MW-16	08/10/17	ORG	< 0.50	< 0.50	< 0.50	**5.6**	< 0.50	**970**	< 0.50	**1.6 J**	< 0.50	**1.3 J**	**6.0**	< 0.50	< 0.50	**57**
MW-16	03/01/18	ORG	< 0.50	< 0.50	**0.21 J**	**1.0**	< 0.50	**100**	< 0.50	**0.57**	< 0.50	**0.54**	**0.50**	< 0.50	< 0.50	**54**
MW-1600	03/01/18	FD	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**81**	< 0.50	**0.49 J**	< 0.50	**0.54**	**0.23 J**	< 0.50	< 0.50	**54**
MW-16	03/01/18	SPT	< 0.50	< 0.50	< 1.0	**1.2**	< 0.50	**100**	< 1.0	< 1.0	< 1.0	**0.53 J**	**0.58 J**	< 10	< 1.0	**62**
MW-16	08/22/18	ORG	< 2.5	< 2.5	< 2.5	**4.2**	< 2.5	**580**	< 2.5	< 2.5	< 2.5	< 2.5	**4.1**	< 2.5	< 2.5	**60**
MW-16	02/20/19	ORG	< 1.0	< 1.0	**0.46 J**	**4.8**	**0.68 J**	**640**	**0.32 J**	**1.1**	< 1.0	**0.76 J**	**5.1**	< 1.0	< 1.0	**81**
MW-16 Historical Range* **			< 0.50 - < 5.0	< 0.50 - 0.58	< 0.50 - 1.1	< 0.50 - 18	< 0.50 - 4.5	49 - 1,900	< 0.50 - 0.57	< 0.50 - 2.9	< 0.50 - 28 E	< 0.50 - 10	< 0.50 - 7.1	< 0.50 - < 5.0	< 0.50 - < 5.0	< 2.0 - 440

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-17	06/15/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-17	06/15/00	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-17	07/06/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 3.0
MW-17	07/06/00	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-17	05/08/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-17	10/22/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-1700	10/22/01	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-17	04/16/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-17	04/16/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-17	11/20/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-17	06/09/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-17	12/16/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/16/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/08/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.1
MW-17	06/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/19/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/13/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/11/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/24/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - < 3.0
MW-18	06/15/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-1800	06/15/00	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	< 0.50	NA
MW-18	07/06/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 3.0
MW-18	05/07/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**	< 0.50	NA
MW-18	10/23/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-18	04/16/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.5
MW-18	04/16/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-18	11/19/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.5
MW-18	06/10/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.5

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-18	12/16/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 2.0
MW-18	06/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	< 2.0
MW-18	12/09/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	< 0.50	< 2.0
MW-18	06/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	< 2.0
MW-18	12/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	< 2.0
MW-18	06/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	< 2.0
MW-18	12/15/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	< 2.0
MW-18	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 2.0
MW-18	12/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-18	06/24/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 2.0
MW-18	12/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.65**	< 0.50	**6.9**
MW-18	06/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.8**	< 0.50	**4.6**
MW-1800	06/26/08	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**	< 0.50	**5.0**
MW-18	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.8**	< 0.50	**7.7 E**
MW-1800	12/10/09	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	**7.0 E**
MW-18	12/10/09	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**3.0**	< 1	**1 E**
MW-18	06/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.3**	< 0.50	< 2.0
MW-18	12/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**	< 0.50	< 2.0
MW-18	08/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.8**	< 0.50	< 0.20
MW-18	02/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	< 0.20
MW-18	08/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	< 0.50	< 0.20
MW-18	02/05/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.20
MW-18	08/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	< 0.20
MW-18	02/04/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	< 0.20
MW-18	08/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.20
MW-18	02/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	< 0.20
MW-18[(2)]	08/13/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	**0.82**	< 0.20
MW-18	02/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.2**	< 0.50	< 0.20
MW-18	08/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.8**	< 0.50	< 0.20
MW-18	02/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.20
MW-18	08/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**1.4**
MW-18	02/28/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**2.3 U**
MW-18	08/21/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	< 0.20
MW-18	02/19/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.12 J**	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	< 0.20
Historical High/Low										**High**						
MW-18 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 0.51	< 0.50 - 1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 6.3	< 0.50 - 0.82	< 0.20 - 7.7 E

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-19	06/14/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19	06/14/00	SPT	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	NA
MW-19	07/06/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 3.0
MW-19	05/08/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.64**	< 0.50	NA
MW-19	10/22/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19	04/16/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19	04/16/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-19	11/20/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19	06/10/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-19	12/16/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/16/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/09/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/19/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/13/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/10/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/24/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19	02/07/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19	02/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19	03/01/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 0.64	< 0.50	< 0.50 - < 3.0
MW-20	09/23/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**82**	< 0.50	< 0.50	**0.63**	< 0.50	< 0.50	**0.58**	< 0.50	< 2.2
MW-20	10/08/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**68**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/18/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**44**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/29/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	06/24/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/13/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-20	06/21/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/11/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	06/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/18/08	ORG	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**
MW-20	06/25/09	ORG	< 0.50	< 0.50	**0.64**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-2000	06/25/09	FD	< 0.50	< 0.50	**0.61**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/08/09	ORG	< 0.50	< 0.50	**0.78**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5
MW-20	06/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/08/10	ORG	< 0.50	< 0.50	**0.59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	08/05/11	ORG	< 0.50	< 0.50	**0.59**	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**
MW-20	02/07/12	ORG	< 0.50	< 0.50	**0.50**	< 0.50	< 0.50	**2.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	08/09/12	ORG	< 0.50	< 0.50	**0.53**	< 0.50	< 0.50	**3.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	02/06/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	08/13/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	02/04/14	ORG	< 0.50	< 0.50	**0.54**	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	08/21/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	02/03/15	ORG	< 0.50	< 0.50	**0.73**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	08/12/15	ORG	< 0.50	< 0.50	**0.65**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	02/02/16	ORG	< 0.50	< 0.50	**0.83**	< 0.50	< 0.50	**0.98**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	08/02/16	ORG	< 0.50	< 0.50	**0.85**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	02/07/17	ORG	< 0.50	< 0.50	**0.67**	< 0.50	< 0.50	**0.66**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	08/08/17	ORG	< 0.50	< 0.50	**0.68**	< 0.50	< 0.50	**0.78**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.81 U**
MW-20	02/28/18	ORG	< 0.50	< 0.50	**0.79**	< 0.50	< 0.50	**3.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.8 U**
MW-20	08/21/18	ORG	< 0.50	< 0.50	**0.57**	< 0.50	< 0.50	**3.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.22 J**	< 0.20
MW-2000	08/21/18	FD	< 0.50	< 0.50	**0.62**	< 0.50	< 0.50	**3.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-20	08/21/18	SPT	< 0.50	< 0.50	**0.56 J**	< 1.0	< 0.50	**3.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0
MW-20	02/20/19	ORG	< 0.50	< 0.50	**0.53**	< 0.50	< 0.50	**5.3**	< 0.50	**0.14 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
Historical High/Low MW-20 Historical Range* **			< 0.50	< 0.50	< 0.50 - 0.85	< 0.50	< 0.50	< 0.50 - 82	< 0.50	**High** < 0.50	< 0.50 - 0.63	< 0.50	< 0.50	< 0.50 - 0.58	<0.50 - 0.22 J	< 0.20 - 3.9
MW-21-200	07/14/03	ORG	< 0.50	< 0.50	< 0.50	**4.4**	< 0.50	**300**	< 0.50	< 0.50	< 0.50	**0.99**	**0.96**	< 0.50	< 0.50	**43**
MW-21	09/23/03	ORG	< 0.50	**0.51**	**2.2**	**26**	< 0.50	**1,300**	**1.3**	**4.3**	**1.1**	**11**	**29**	< 0.50	< 0.50	**160**
MW-2100	09/23/03	FD	< 0.50	**0.53**	**2.4**	**26**	< 0.50	**1,700**	**1.2**	**4.7**	**1.1**	**12**	**29**	< 0.50	< 0.50	**160**
MW-21	09/23/03	SPT	< 1.0	< 1.0	**2**	**24**	**3 E**	**1,400**	**1.0**	**3.0**	< 1.0	**11**	**27**	< 1.0	< 1.0	**340**
MW-21	10/08/03	ORG	< 25	< 25	< 25	< 25	< 25	**1,600**	< 25	< 25	< 25	< 25	**30**	< 25	< 25	**160**
MW-21	12/17/03	ORG	< 0.50	**1.8**	**3.9**	**62**	**6.8**	**3,500**	**2.3**	**12**	**1.6**	**20**	**43**	< 0.50	< 0.50	**150**
MW-2100	12/17/03	FD	< 0.50	**1.8**	**4.1**	**64**	**7.0**	**3,500**	**2.4**	**14**	**1.7**	**21**	**45**	< 0.50	< 0.50	**150**
MW-21	12/17/03	SPT	< 1.0	**1.0**	**4.0**	**58**	**6.0**	**2,800**	**2.0**	**9.0**	**1.0**	**20**	**40**	< 1.0	< 1.0	**290**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-21	03/31/04	ORG	< 5.0	< 5.0	< 5.0	**30**	< 5.0	**2,200**	< 5.0	**8.1**	< 5.0	**8.9**	**23**	< 5.0	< 5.0	**64 E**
MW-21	03/31/04	SPT	< 1.0	< 1.0	< 1.0	**30**	< 1.0	**2,100**	< 1.0	< 1.0	< 1.0	< 1.0	**20**	< 1.0	< 1.0	**140 E**
MW-21	06/18/04	ORG	< 5.0	< 5.0	< 5.0	**23**	< 5.0	**1,600**	< 5.0	**6.0**	< 5.0	**6.6**	**22**	< 5.0	< 5.0	**40**
MW-21	09/22/04	ORG	< 5.0	< 5.0	< 5.0	**7.5**	< 5.0	**530**	< 5.0	< 5.0	< 5.0	< 5.0	**22**	< 5.0	< 5.0	**13**
MW-21	12/10/04	ORG	< 5.0	< 5.0	< 5.0	**26**	< 5.0	**1,700**	< 5.0	**5.3**	< 5.0	**8.8**	**30**	< 5.0	< 5.0	**35**
MW-21	03/17/05	ORG	< 0.50	**1.9**	**4.6**	**71**	**8.9**	**4,600**	**2.4**	**12**	**2.0**	**27**	**46**	**0.53**	< 0.50	**300**
MW-2100	03/17/05	FD	< 0.50	**1.8**	**4.3**	**66**	**8.7**	**4,600**	**2.3**	**12**	**1.9**	**27**	**44**	< 0.50	< 0.50	**330**
MW-21	06/22/05	ORG	< 0.50	**1.2**	**2.9**	**42**	**5.9**	**3,000**	**1.9**	**8.2**	< 0.50	**19**	**37**	< 0.50	< 0.50	**210 E**
MW-21	06/22/05	SPT	< 1.0	**1.1**	**2.9**	**42**	**6.2**	**2,400**	**1.7**	**7.2**	**1.2**	**18**	**35**	< 1.0	< 1.0	**1,100 JE**
MW-21	09/22/05	ORG	< 0.50	**0.64**	**1.8**	**26**	**4.4**	**1,700**	**1.4**	**4.0**	< 0.50	**12**	**33**	< 0.50	< 0.50	**250**
MW-21	12/19/05	ORG	< 0.50	< 0.50	**2.8**	**31**	< 0.50	**4,100**	< 0.50	**7.4**	< 0.50	**10**	**18**	< 0.50	< 0.50	**430**
MW-21	03/23/06	ORG	< 5.0	< 5.0	< 5.0	**52**	< 5.0	**4,000**	< 5.0	**11**	< 5.0	**14**	**30**	< 5.0	< 5.0	**240**
MW-21	03/23/06	SPT	< 0.50	< 3.00	< 3.00	**40**	< 3.00	**2,900**	< 3.00	< 3.00	< 3.00	< 3.00	**30**	< 3.00	< 3.00	**250**
MW-21	06/22/06	ORG	< 0.50	**0.89**	**1.6**	**22**	**2.3**	**2,000**	**1.2**	**8.5**	< 0.50	**6.9**	**31**	< 0.50	< 0.50	**120**
MW-21	06/22/06	SPT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**150**
MW-21	09/27/06	ORG	< 2.5	< 2.5	< 2.5	**17**	< 2.5	**1,400**	< 2.5	**3.3**	< 2.5	**4.2**	**30**	< 2.5	< 2.5	**1,100**
MW-21	12/11/06	ORG	< 0.50	**0.53**	**1.2**	**16**	**2.0**	**1,200**	**1.4**	**3.2**	< 0.50	**5.5**	**31**	< 0.50	< 0.50	**150**
MW-21	12/11/06	SPT	< 7	< 7	< 7	**10 E**	< 7	**1,000**	< 7	< 7	< 7	< 7	**30**	< 7	< 7	**180**
MW-21	03/14/07	ORG	< 2.5	< 2.5	< 2.5	**12 E**	**3.2**	**1,400**	< 2.5	**4.4**	< 2.5	**8.2**	**32**	< 2.5	< 2.5	**330**
MW-2100	03/14/07	FD	< 2.5	< 2.5	< 2.5	**18 E**	**3.2**	**1,400**	< 2.5	**4.3**	< 2.5	**8.6**	**33**	< 2.5	< 2.5	**320**
MW-21	03/14/07	SPT	< 1.0	< 1.0	< 1.0	**20 E**	< 1.0	**1,500**	< 1.0	< 1.0	< 1.0	< 1.0	**30**	< 1.0	< 1.0	**450**
MW-21	06/20/07	ORG	< 1.0	< 1.0	< 1.0	**19**	< 1.0	**1,400**	< 1.0	< 1.0	< 1.0	< 1.0	**35**	< 1.0	< 1.0	**240**
MW-21	09/27/07	ORG	< 0.50	< 0.50	< 0.50	**5.6**	**0.72**	**490**	**1.8**	**1.2**	< 0.50	**2.0**	**36**	< 0.50	< 0.50	**51**
MW-21	12/13/07	ORG	< 0.50	< 0.50	**0.50 U**	**4.8**	< 0.50	**320**	**1.8**	**0.96**	< 0.50	**1.4**	**41**	< 0.50	< 0.50	**47**
MW-2100	12/13/07	FD	< 0.50	< 0.50	**0.50 U**	**5.0**	< 0.50	**620**	**1.7**	**1.0**	< 0.50	**1.4**	**42**	< 0.50	< 0.50	**49**
MW-21	12/13/07	SPT	< 5	< 5	< 5	< 5	< 5	**480**	< 5	< 5	< 5	< 5	**40**	< 5	< 5	**54**
MW-21	06/25/08	ORG	< 5	< 5	< 5	**60**	**6.9**	**4,900**	< 5	**11**	< 5	**20**	**34**	< 5	< 5	**370**
MW-2100	06/25/08	FD	< 5	< 5	< 5	**60**	**7.0**	**5,100**	< 5	**11**	< 5	**20**	**34**	< 5	< 5	**380**
MW-21	06/25/08	SPT	< 5	< 5	< 5	**50**	**6.0**	**3,500**	< 5	**10**	< 5	**20**	**30**	< 5	< 5	**440**
MW-21	07/08/08	ORG	< 10	< 10	< 10	**47**	< 10	**3,500**	< 10	**11**	< 10	**16**	**26**	< 10	< 10	**410**
MW-21	07/09/08	ORG	< 10	< 10	< 10	**54**	< 10	**4,200**	< 10	**10**	< 10	**17**	**25**	< 10	< 10	**360**
MW-21	07/10/08	ORG	< 5	< 5	< 5	**38**	**5.2**	**3,800**	< 5	**12**	< 5	**13**	**23**	< 5	< 5	**330**
MW-21	07/15/08	ORG	< 5	< 5	< 5	**42**	< 5	**3,500**	< 5	**12**	< 5	**13**	**30**	< 5	< 5	**290**
MW-21	07/16/08	ORG	< 5	< 5	< 5	**47**	**5.5**	**4,800**	< 5	**9.7**	< 5	**14**	**26**	< 5	< 5	**310**
MW-21	07/23/08	ORG	< 10	< 10	< 10	**40**	< 10	**3,500**	< 10	< 10	< 10	**13**	**24**	< 10	< 10	**220**
MW-21	07/30/08	ORG	< 10	< 10	< 10	**41**	< 10	**3,400**	< 10	< 10	< 10	**10**	**20**	< 10	< 10	**230**
MW-21	08/06/08	ORG	< 5	< 5	< 5	**32**	< 5	**1,500**	< 5	**7.0**	< 5	**7.7**	**19**	< 5	< 5	**230**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-21	08/25/08	ORG	< 5	< 5	< 5	**21**	< 5	**1,800**	< 5	**5.1**	< 5	**6.3**	**16**	< 5	< 5	**150**
MW-21	09/24/08	ORG	< 2.5	< 2.5	< 2.5	**15**	< 2.5	**1,200**	< 2.5	**3.4**	< 2.5	**4.8**	**16**	< 2.5	< 2.5	**100**
MW-21	10/22/08	ORG	< 2.5	< 2.5	< 2.5	**13**	< 2.5	**1,200**	< 2.5	**3.2**	< 2.5	**3.0**	**14**	< 2.5	< 2.5	**95**
MW-21	11/26/08	ORG	< 2.5	< 2.5	< 2.5	**11**	< 2.5	**1,100**	< 2.5	**2.6**	< 2.5	**2.5**	**12**	< 2.5	< 2.5	**74**
MW-21	02/25/09	ORG	< 2.5	< 2.5	< 2.5	**6.6**	< 2.5	**720**	< 2.5	< 2.5	< 2.5	< 2.5	**12**	< 2.5	< 2.5	**83**
MW-21	03/18/09	ORG	< 2.5	< 2.5	< 2.5	**7.7**	< 2.5	**900**	< 2.5	< 2.5	< 2.5	**2.5**	**11**	< 2.5	< 2.5	**54**
MW-21	04/29/09	ORG	< 2.5	< 2.5	< 2.5	**7.8**	< 2.5	**860**	< 2.5	< 2.5	< 2.5	< 2.5	**14**	< 2.5	< 2.5	**65**
MW-21	05/27/09	ORG	< 2.5	< 2.5	< 2.5	**8.4**	< 2.5	**940**	< 2.5	< 2.5	< 2.5	**2.5**	**14**	< 2.5	< 2.5	**71**
MW-21	06/29/09	ORG	< 0.5	< 0.5	**0.64**	**7.4**	**0.81**	**860**	**0.63**	**2.1**	< 0.5	**2.1**	**17**	< 0.5	< 0.5	**68**
MW-21	07/22/09	ORG	< 1.0	< 1.0	< 1.0	**8.4**	< 1.0	**870**	**1.0**	**1.6**	< 1.0	**1.9**	**16**	< 1.0	< 1.0	**65**
MW-21	08/14/09	ORG	< 2.5	< 2.5	< 2.5	**8.8**	< 2.5	**900**	< 2.5	< 2.5	< 2.5	< 2.5	**18**	< 2.5	< 2.5	**72**
MW-21	09/11/09	ORG	< 2.5	< 2.5	< 2.5	**8.3**	< 2.5	**1,100**	< 2.5	< 2.5	< 2.5	< 2.5	**14**	< 2.5	< 2.5	**63**
MW-21	10/08/09	ORG	< 2.5	< 2.5	< 2.5	**9.2**	< 2.5	**830**	< 2.5	< 2.5	< 2.5	< 2.5	**19**	< 2.5	< 2.5	**76**
MW-21	12/09/09	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**200**	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	**11**
MW-21	03/05/10	ORG	< 1.0	< 1.0	< 1.0	**2.9**	< 1.0	**370**	< 1.0	< 1.0	< 1.0	< 1.0	**14**	< 1.0	< 1.0	**21**
MW-21	06/11/10	ORG	< 2.0	< 2.0	< 2.0	**8.6**	< 2.0	**800**	< 2.0	< 2.0	< 2.0	< 2.0	**22**	< 2.0	< 2.0	**40**
MW-21	06/11/10	SPT	< 1	< 1	< 1	**7.0**	< 1	**850**	< 1	**1.0**	< 1	**2.0**	**21**	< 1	< 1	**47**
MW-21	09/08/10	ORG	< 2.0	< 2.0	< 2.0	**12**	< 2.0	**1,000**	< 2.0	< 2.0	< 2.0	< 2.0	**21**	< 2.0	< 2.0	**74**
MW-21	12/06/10	ORG	< 5.0	< 5.0	< 5.0	**25**	< 5.0	**2,300**	< 5.0	< 5.0	< 5.0	**7.6**	**23**	< 5.0	< 5.0	**250**
MW-21	12/06/10	SPT	< 5	< 5	< 5	**10**	< 5	**1,600**	< 5	< 5	**5.0**	< 5	**10**	< 5	< 5	**360**
MW-21	03/24/11	ORG	< 5.0	< 5.0	< 5.0	**38**	**5.7**	**2,800**	< 5.0	**8.7**	< 5.0	**13**	**23**	< 5.0	< 5.0	**93 E**
MW-21	03/24/11	SPT	< 1	**1.0**	**2.0**	**33**	**4.0**	**2,400**	**2.0**	**6.0**	< 1	**13**	**18**	**2.0**	< 1	**560 E**
MW-21	06/23/11	ORG	< 5.0	< 5.0	< 5.0	**33**	**5.0**	**2,700**	< 5.0	**5.8**	< 5.0	**12**	**24**	< 5.0	< 5.0	**400**
MW-21	06/23/11	SPT	< 1	< 1	**2.0**	**27**	**4.0**	**2,300**	**1.0**	**5.0**	< 1	**10**	**20**	< 1	< 1	**450**
MW-21	08/02/11	ORG	< 5.0	< 5.0	< 5.0	**34**	< 5.0	**2,400**	< 5.0	**5.6**	< 5.0	**11 E**	**24 E**	< 5.0	< 5.0	**360 E**
MW-2100	08/02/11	FD	< 2.5	< 2.5	< 2.5	**34**	**4.4**	**2,000**	< 2.5	**5.4**	< 2.5	**11 E**	**23 E**	< 2.5	< 2.5	**340 E**
MW-21	08/02/11	SPT	< 1.0	< 1.0	**2.0**	**22**	**3.0**	**1,800**	< 1.0	**4.0**	< 1.0	**8 E**	**17 E**	< 1.0	< 1.0	**430**
MW-21	11/01/11	ORG	< 2.5	< 2.5	< 2.5	**29**	**4.9**	**1,600**	< 2.5	**5.6**	< 2.5	**11**	**22**	< 2.5	< 2.5	**390**
MW-21	12/07/11	ORG	< 10	< 10	< 10	**43**	< 10	**3,200**	< 10	< 10	< 10	< 10	**20**	< 10	< 10	**450**
MW-21	01/06/12	ORG	< 10	< 10	< 10	**15**	< 10	**1,400**	< 10	< 10	< 10	< 10	**13**	< 10	< 10	**120**
MW-21	02/08/12	ORG	< 4.0	< 4.0	< 4.0	**8.5**	< 4.0	**520**	< 4.0	< 4.0	< 4.0	< 4.0	**11**	< 4.0	< 4.0	**33**
MW-21	03/09/12	ORG	< 4.0	< 4.0	< 4.0	**8.6**	< 4.0	**860**	< 4.0	< 4.0	< 4.0	< 4.0	**14**	< 4.0	< 4.0	**61**
MW-21	05/07/12	ORG	< 4.0	< 4.0	< 4.0	**6.5**	< 4.0	**490**	< 4.0	< 4.0	< 4.0	< 4.0	**11**	< 4.0	< 4.0	**23**
MW-2100	05/07/12	FD	< 4.0	< 4.0	< 4.0	**6.3**	< 4.0	**480**	< 4.0	< 4.0	< 4.0	< 4.0	**12**	< 4.0	< 4.0	**19**
MW-21	08/06/12	ORG	< 5.0	< 5.0	< 5.0	**10**	< 5.0	**1,300**	< 5.0	< 5.0	< 5.0	< 5.0	**12**	< 5.0	< 5.0	**60**
MW-21	11/05/12	ORG	< 5.0	< 5.0	< 5.0	**24**	< 5.0	**2,000**	< 5.0	**6.1**	< 5.0	**6.8**	**16**	< 5.0	< 5.0	**240**
MW-21	02/04/13	ORG	< 2.5	< 2.5	< 2.5	**33**	**5.8**	**1,900**	< 2.5	**5.1**	< 2.5	**12**	**19**	< 2.5	< 2.5	**480**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-21	05/13/13	ORG	< 2.5	< 2.5	< 2.5	**23**	**3.4**	**1,600**	< 2.5	**4.5**	< 2.5	**8.8**	**15**	< 2.5	< 2.5	**450**
MW-21	08/12/13	ORG	< 2.5	< 2.5	< 2.5	**19**	**3.5**	**1,500**	< 2.5	**3.4**	< 2.5	**6.1**	**19**	< 2.5	< 2.5	**370**
MW-21	11/11/13	ORG	< 2.5	< 2.5	< 2.5	**21**	**4.2**	**1,000**	< 2.5	**3.3**	< 2.5	**8.8**	**13**	< 2.5	< 2.5	**430**
MW-21	02/03/13	ORG	< 2.5	< 2.5	< 2.5	**29**	**7.2**	**1,300**	< 2.5	**5.2**	< 2.5	**10**	**17**	< 2.5	< 2.5	**390**
MW-21	08/18/14	ORG	< 2.5	< 2.5	< 2.5	**18**	**3.4**	**1,200**	< 2.5	**3.6**	< 2.5	**7.0**	**18**	< 2.5	< 2.5	**360**
MW-21	11/04/14	ORG	< 0.50	< 0.50	< 0.50	**4.6**	**0.72**	**350**	**1.1**	**0.85**	< 0.50	**1.5**	**19**	< 0.50	< 0.50	**54**
MW-21	02/02/15	ORG	< 2.0	< 2.0	< 2.0	**17**	**2.8**	**1,100**	< 2.0	**3.3**	< 2.0	**7.6**	**18**	< 2.0	< 2.0	**290**
MW-21	05/11/15	ORG	< 2.5	< 2.5	< 2.5	**24**	**4.1**	**1,800**	< 2.5	**5.0**	< 2.5	**10**	**18**	< 2.5	< 2.5	**350**
MW-21	08/10/15	ORG	< 2.5	< 2.5	< 2.5	**17**	**3.6**	**1,300**	< 2.5	**3.8**	< 2.5	**8.4**	**21**	< 2.5	< 2.5	**250**
MW-21	11/02/15	ORG	<2.0	<2.0	<2.0	**17**	**2.6**	**920**	<2.0	**2.3**	<2.0	**7.3**	**16**	<2.0	<2.0	**380**
MW-2100	11/02/15	FD	<2.0	<2.0	<2.0	**17**	**2.3**	**880**	<2.0	**2.6**	<2.0	**7.1**	**18**	<2.0	<2.0	**390**
MW-21	11/02/15	SPT	<0.50	<0.50	**1.2**	**16**	**2.7**	**1,100**	**1.3**	**2.0**	<1.0	**7.8**	**17**	<10	<1.0	**380**
MW-21	02/01/16	ORG	< 5.0	< 5.0	< 5.0	**25**	< 5.0	**1,700**	< 5.0	< 5.0	< 5.0	**7.9**	**17**	< 5.0	< 5.0	**270**
MW-21	05/02/16	ORG	<2.0	<2.0	<2.0	**22**	**3.6**	**1,400**	<2.0	**4.1**	<2.0	**11**	**20**	<2.0	<2.0	**220**
MW-21	08/01/16	ORG	< 2.5	< 2.5	< 2.5	**27**	**4.2**	**1,500**	< 2.5	**4.5**	< 2.5	**11**	**20**	< 2.5	< 2.5	**250**
MW-21	11/07/16	ORG	< 2.5	< 2.5	< 2.5	**24**	**3.2**	**1,400**	< 2.5	**2.6**	< 2.5	**9.0**	**18**	< 2.5	< 2.5	**220**
MW-21	02/06/17	ORG	< 2.5	< 2.5	< 2.5	**32**	**4.9**	**2,300**	< 2.5	**6.0**	< 2.5	**13**	**16**	< 2.5	< 2.5	**230**
MW-21	05/15/17	ORG	< 5.0	< 5.0	< 5.0	**15**	< 5.0	**1,200**	< 5.0	**4.1 J**	< 5.0	**4.9 J**	**12**	< 5.0	< 5.0	**140**
MW-21	08/07/17	ORG	< 0.50	< 0.50	< 0.50	**24**	**3.3 J**	**1,700**	< 0.50	**5.4**	< 0.50	**7.5**	**14**	< 0.50	< 0.50	**180**
MW-21	11/06/17	ORG	< 5.0	< 5.0	< 5.0	**15**	< 5.0	**1,500**	< 5.0	**5.8**	< 5.0	**5.5**	**10**	< 5.0	< 5.0	**120 E**
MW-2100	11/06/17	FD	< 2.5	< 2.5	**1.6 J**	**19**	**2.2 J**	**1,300**	< 2.5	**5.5**	< 2.5	**5.6**	**11**	< 2.5	< 2.5	**130 E**
MW-21	11/06/17	SPT	< 0.50	**0.47 J**	**1.7**	**24**	**3.2**	**1,900**	**1.2**	**5.7**	<1.0	**7.7**	**12**	< 10	< 1.0	**210 E**
MW-21	02/27/18	ORG	< 2.5	< 2.5	< 2.5	**8.0**	< 2.5	**740**	< 2.5	**3.2**	< 2.5	**2.2 J**	**8.8**	< 2.5	< 2.5	**49 E**
MW-2100	02/27/18	FD	< 2.5	< 2.5	< 2.5	**7.8**	< 2.5	**750**	< 2.5	**2.6**	< 2.5	**2.8**	**8.6**	< 2.5	< 2.5	**49 E**
MW-21	02/27/18	SPT	< 2.5	< 2.5	< 5.0	**7.5**	< 2.5	**880**	< 5.0	**2.8 J**	< 5.0	**2.3 J**	**9.9**	< 50	< 5.0	**70 E**
MW-21	05/08/18	ORG	< 2.5	< 2.5	< 2.5	**9.2**	< 2.5	**710**	< 2.5	**2.6**	< 2.5	**2.6**	**11**	< 2.5	< 2.5	**73**
MW-2100	05/08/18	FD	< 2.5	< 2.5	< 2.5	**9.2**	< 2.5	**760**	< 2.5	**3.3**	< 2.5	**2.2 J**	**11**	< 2.5	< 2.5	**76**
MW-21	05/08/18	SPT	< 2.5	< 2.5	< 5.0	**8.9**	< 2.5	**720**	< 5.0	**2.7 J**	< 5.0	**2.6 J**	**12**	< 50	< 5.0	**69**
MW-21	08/24/18	ORG	< 2.5	< 2.5	**1.1 J**	**14**	< 2.5	**920**	< 2.5	**3.0**	< 2.5	**5.6**	**16**	< 2.5	< 2.5	**200**
MW-21	11/06/18	ORG	< 2.5	< 2.5	**1.0 J**	**13 E**	**2.4 J**	**880**	**1.2 J**	**3.4**	< 2.5	**6.0**	**15 E**	< 2.5	< 2.5	**310**
MW-2100	11/06/18	FD	< 2.5	< 2.5	**1.0 J**	**12 E**	**2.4 J**	**630**	**1.2 J**	**3.4**	< 2.5	**5.8**	**16 E**	< 2.5	< 2.5	**300**
MW-21	11/06/18	SPT	< 1.0	**0.55**	**1.3**	**19 E**	**2.9**	**1200**	**1.2**	**3.9**	< 1.0	**7.8**	**22 E**	< 10	< 1.0	**200**
MW-21	02/13/19	ORG	< 2.5	< 2.5	< 2.5	**16**	**3.3**	**840**	< 2.5	**3.0**	< 2.5	**8.8**	**12**	< 2.5	< 2.5	**670**
MW-21 Historical Range* **			< 0.50 - < 25	< 0.50 - 1.9	< 0.50 - 4.6	< 0.50 - 71	< 0.50 - 8.9	200 - 4,900	< 0.50 - 2.4	< 0.50 - 12	< 0.50 - 2.0	< 0.50 - 27	0.96 - 46	< 0.50 - 0.53	< 0.50 - < 25	11 - 1,100

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-22-203	07/28/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-22	09/23/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-22	10/08/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-22	12/15/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/30/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/14/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/21/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/07/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/14/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/20/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/26/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/13/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/25/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/10/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/22/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/09/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-22	02/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-22	02/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-22	02/28/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-22 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - < 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-23-199	08/12/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-23	09/23/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-23	10/08/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-23	12/15/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/29/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-23	09/20/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/07/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/14/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/20/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/26/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/12/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/24/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/11/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	02/05/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	02/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/01/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5 - < 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-24	09/23/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-2400	09/23/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/23/04	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-24	10/19/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/07/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-2400	12/07/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/14/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/26/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/13/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.7**
MW-24	06/20/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-2400	06/20/07	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/20/07	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1
MW-24	09/25/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/11/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/24/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/16/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/24/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/02/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/03/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**
MW-24	03/30/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-24	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-24	02/06/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-24	02/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-24	02/05/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-24	02/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-24	02/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-24	03/01/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-24	02/13/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-24 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - 2.7
MW-26A	10/20/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26A	11/10/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26A	12/08/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/08/04	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/16/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/27/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/12/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/25/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/10/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/24/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/18/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/02/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/09/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/25/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26B	10/20/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26B	11/10/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26B	12/08/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/08/04	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-26B	03/16/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/27/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/12/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/25/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/10/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/24/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/18/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/02/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/09/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/25/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	10/19/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	11/10/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	12/07/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-2600C	12/07/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26C	03/16/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.1
MW-26C	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	09/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	03/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	06/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	09/27/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	12/12/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-26C	03/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.55**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	06/19/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-2600C	06/19/07	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1
MW-26C	06/19/07	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	09/25/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	12/11/07	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**100**	< 0.50	< 0.50	< 0.50	**0.61**	< 0.50	< 0.50	< 0.50	**57**
MW-26C	12/20/07	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	**0.72**	< 0.50	< 0.50	< 0.50	**55 E**
MW-2600C	12/20/07	FD	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	< 0.50	< 0.50	**34 U**
MW-26C	12/20/07	SPT	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**100**	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	**76 E**
MW-26C	01/21/08	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**110**	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	< 0.50	< 0.50	**75**
MW-26C	02/21/08	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**71**	< 0.50	**0.79**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**36**
MW-26C	03/19/08	ORG	< 0.50	< 0.50	< 0.50	**0.61**	< 0.50	**46**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**37 E**
MW-2600C	03/19/08	FD	< 0.50	< 0.50	< 0.50	**0.59**	< 0.50	**46**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31 U**
MW-26C	03/19/08	SPT	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	**44**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22 U**
MW-26C	04/21/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**
MW-26C	05/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**38**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**
MW-26C	06/24/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**
MW-26C	07/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**
MW-26C	08/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**
MW-26C	09/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1 BU**
MW-26C	12/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.5**
MW-26C	03/18/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	09/02/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**
MW-26C	12/09/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**	< 2.0
MW-26C	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	< 2.0
MW-26C	03/25/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**	**0.91**
MW-26C	06/24/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.9**	< 0.20
MW-26C	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.7**	**0.34**
MW-26C	11/01/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.1**	< 0.20
MW-26C	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.5**	< 0.20
MW-26C	05/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.6**	< 0.20
MW-26C	08/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.95**	< 0.20
MW-26C	11/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	02/08/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	05/15/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-26C	08/15/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	11/12/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	02/04/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	08/19/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	11/11/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	05/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	08/20/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	11/04/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	02/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	05/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	08/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	11/08/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	02/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	05/16/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	08/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	11/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	03/01/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	05/10/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	08/21/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	11/07/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.41 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C	02/12/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-26C Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 1.7	< 0.50	< 0.50 - 120	< 0.50	< 0.50 - 0.79	< 0.50	< 0.50 - 0.77	< 0.50	< 0.50	< 0.50 - 22	< 0.20 - 57
MW-27	05/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-2700	05/27/08	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	05/27/08	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1
MW-27	06/10/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	06/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	07/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	08/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	09/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	12/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	06/22/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	12/09/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-27	12/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	03/30/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.24**
MW-27	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-27	02/07/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-27	02/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-27	02/06/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-27	02/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-27	02/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-27	03/02/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-27	02/14/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-27 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - 0.24
MW-28	05/16/08	ORG	< 0.50	< 0.50	< 0.50	**0.94**	< 0.50	**76 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**
MW-2800	05/16/08	FD	< 0.50	< 0.50	< 0.50	**0.98**	< 0.50	**78 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**
MW-28	05/16/08	SPT	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**45 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23**
MW-28	05/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.2**
MW-28	06/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.3**
MW-28	07/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**
MW-28	08/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-28	09/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.2 BE**
MW-28	12/18/08	ORG	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	**60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**
MW-28	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**41**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**
MW-28	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**28**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.2**
MW-28	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.1**
MW-2800	09/01/09	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**33**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.4**
MW-28	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.5**
MW-28	03/04/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.0**
MW-28	06/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**
MW-2800	06/09/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**
MW-28	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**
MW-28	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-28	03/30/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**
MW-28	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.49**
MW-28	08/05/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.53**
MW-28	11/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30**
MW-28	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.84**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	05/11/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.99**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.22**
MW-28	08/10/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-28	11/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**
MW-28	02/07/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	05/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	08/13/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**
MW-28	11/12/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**
MW-28	02/04/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.84**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.25**
MW-28	05/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	08/21/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.8**
MW-28	11/05/14	ORG	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**43**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**
MW-28	02/05/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**
MW-2800	02/05/15	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.4**
MW-28	02/05/15	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**14**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**6.1**
MW-28	05/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.99**
MW-28	08/11/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**
MW-28	11/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	02/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.31**
MW-28	05/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.82**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
MW-28	08/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.88**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	11/09/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.84**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	02/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	05/16/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.32 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-28	08/10/17	ORG	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	**0.68**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	11/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	02/28/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.49 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**
MW-28	05/08/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.49 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	08/22/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.49 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	11/07/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28	02/12/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.71**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-28 Historical Range* **			< 0.50	< 0.50	< 0.50 - 0.20 J	< 0.50 - 0.94	< 0.50	<0.50 - 76 E	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - 19
MW-29	08/26/08	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**150**	< 0.50	< 0.50	< 0.50	**0.50**	**0.60**	< 0.50	< 0.50	**54**
MW-2900	08/26/08	FD	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	**0.58**	< 0.50	< 0.50	**55**
MW-29	08/26/08	SPT	< 1	< 1	< 1	**1.0**	< 1	**120**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**67**
MW-29	09/25/08	ORG	< 0.50	< 0.50	< 0.50	**1.2 E**	< 0.50	**110 E**	< 0.50	< 0.50	< 0.50	< 0.50	**0.74 E**	< 0.50	< 0.50	**26 BE**
MW-2900	09/25/08	FD	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**99**	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	**32 BE**
MW-29	09/25/08	SPT	< 1	< 1	< 1	**1.0**	< 1	**100**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**40 E**
MW-29	12/18/08	ORG	< 1.0	< 1.0	< 1.0	**4.7**	**1.0**	**400**	< 1.0	**1.3**	< 1.0	**1.4**	**4.3**	< 1.0	< 1.0	**98**
MW-2900	12/18/08	FD	< 1.0	< 1.0	< 1.0	**4.5**	**1.0**	**390**	< 1.0	**1.3**	< 1.0	**1.5**	**4.3**	< 1.0	< 1.0	**110**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-29	03/17/09	ORG	< 0.50	< 0.50	**0.62**	**5.2**	**1.0**	**530**	< 0.50	**1.5**	< 0.50	**1.9**	**4.0**	**0.81**	< 0.50	**110**
MW-2900	03/17/09	FD	< 0.50	< 0.50	**0.60**	**5.0**	**1.0**	**550**	< 0.50	**1.4**	< 0.50	**1.9**	**4.0**	**0.78**	< 0.50	**100**
MW-29	06/24/09	ORG	< 0.50	< 0.50	< 0.50	**2.7**	**0.55**	**320**	< 0.50	**1.1**	< 0.50	**0.91**	**3.3**	**0.60**	< 0.50	**84**
MW-29	09/02/09	ORG	< 0.50	< 0.50	< 0.50	**2.7**	**0.57**	**310**	< 0.50	**0.97**	< 0.50	**0.93**	**3.4**	**0.62**	< 0.50	**71**
MW-2900	09/02/09	FD	< 0.50	< 0.50	< 0.50	**3.0**	**0.64**	**340**	< 0.50	**1.0**	< 0.50	**0.89**	**3.6**	**0.68**	< 0.50	**75**
MW-29	12/10/09	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.50**	**290**	< 0.50	**0.97**	< 0.50	**0.84**	**3.5**	**0.54**	< 0.50	**74**
MW-29	03/04/10	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.52**	**340**	< 0.50	**1.2**	< 0.50	**0.73**	**3.6**	**0.61**	< 0.50	**95**
MW-2900	03/04/10	FD	< 0.50	< 0.50	< 0.50	**3.0**	**0.50**	**320**	< 0.50	**1.1**	< 0.50	**0.64**	**3.9**	**0.58**	< 0.50	**96**
MW-29	06/09/10	ORG	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	**300**	< 0.50	**0.85**	< 0.50	**0.73**	**3.2**	**0.65**	< 0.50	**61**
MW-29	09/09/10	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	**30**
MW-29	12/07/10	ORG	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	**200**	< 0.50	**0.71**	< 0.50	**0.55**	**3.2**	< 0.50	< 0.50	**41**
MW-2900	12/07/10	FD	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**220**	< 0.50	**0.71**	< 0.50	**0.53**	**3.1**	< 0.50	< 0.50	**43**
MW-29	03/30/11	ORG	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	**200**	< 0.50	**0.77**	< 0.50	**0.56**	**3.6**	**0.51**	< 0.50	**29**
MW-29	06/21/11	ORG	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**220**	< 0.50	**0.85**	< 0.50	**0.55**	**4.5**	**0.71**	< 0.50	**30**
MW-29	08/05/11	ORG	< 0.50	< 0.50	**0.63**	**3.6**	**0.55**	**330**	**0.61**	**0.87**	< 0.50	**0.76**	**5.6**	**1.2**	< 0.50	**45 E**
MW-2900	08/05/11	FD	< 0.50	< 0.50	**0.62**	**3.6**	**0.54**	**370**	**0.57**	**0.84**	< 0.50	**0.75**	**5.7**	**1.2**	< 0.50	**54 E**
MW-29	08/05/11	SPT	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	**270**	< 1.0	< 1.0	< 1.0	< 1.0	**4.0**	< 1.0	< 1.0	**82 E**
MW-29	11/03/11	ORG	< 0.50	< 0.50	**0.80**	**7.8**	**1.4**	**804**	**0.60**	**1.3**	< 0.50	**2.3**	**6.0**	**1.0**	< 0.50	**301**
MW-29	02/09/12	ORG	< 5.0	< 5.0	< 5.0	**9.2**	< 5.0	**900 E**	< 5.0	< 5.0	< 5.0	< 5.0	**7.5**	< 5.0	< 5.0	**130 E**
MW-2900	02/09/12	FD	< 5.0	< 5.0	< 5.0	**9.0**	< 5.0	**910 E**	< 5.0	< 5.0	< 5.0	< 5.0	**7.1**	< 5.0	< 5.0	**120 E**
MW-29	02/09/12	SPT	< 1.0	< 1.0	< 1.0	**5.0**	< 1.0	**380 E**	< 1.0	**1.0**	**1.0**	**2.0**	**4.0**	**1.0**	< 1.0	**340 E**
MW-29	05/11/12	ORG	< 4.0	< 4.0	< 4.0	**8.3**	< 4.0	**780**	< 4.0	**5.7**	< 4.0	< 4.0	**6.2**	< 4.0	< 4.0	**300**
MW-2900	05/11/12	FD	< 5.0	< 5.0	< 5.0	**8.5**	< 5.0	**830**	< 5.0	< 5.0	< 5.0	< 5.0	**5.3**	< 5.0	< 5.0	**280**
MW-29	05/11/12	SPT[E]	< 1	< 1	< 1	**5.0**	**1.0**	**550**	< 1	**1.0**	< 1	**2.0**	**4.0**	**1.0**	< 1	**300**
MW-29	05/11/12	SPT[C]	< 0.50	< 0.50	< 1.0	**6.0**	**1.1**	**730**	< 1.0	**1.1**	< 1.0	**2.1**	**4.6**	< 10	< 1.0	**290**
MW-29	08/06/12	ORG	< 1.0	< 1.0	< 1.0	**3.8**	< 1.0	**440**	< 1.0	**1.2**	< 1.0	**1.1**	**2.2**	**1.0**	< 1.0	**110**
MW-29	11/07/12	ORG	< 1.0	< 1.0	< 1.0	**4.6**	**1.2**	**560**	< 1.0	**6.6**	< 1.0	**1.6**	**5.0**	**1.7**	< 1.0	**250**
MW-29	02/07/13	ORG	< 1.0	< 1.0	< 1.0	**3.8**	< 1.0	**410**	< 1.0	**1.0**	< 1.0	**1.2**	**8.3**	**1.9**	< 1.0	**130**
MW-2900	02/07/13	FD	< 1.0	< 1.0	< 1.0	**3.7**	**1.0**	**370**	< 1.0	**1.0**	< 1.0	**1.1**	**8.2**	**2.0**	< 1.0	**130**
MW-29	02/07/13	SPT	< 1.0	< 1.0	< 2.0	**2.6**	< 1.0	**290**	< 2.0	< 2.0	< 2.0	**3.0**	**7.3**	< 2.0	< 2.0	**160**
MW-29	05/15/13	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.63**	**310**	< 0.50	**1.0**	< 0.50	**1.1**	**4.4**	**1.4**	< 0.50	**140**
MW-29	08/15/13	ORG	< 0.50	< 0.50	< 0.50	**3.6**	**0.59**	**370**	< 0.50	**0.97**	< 0.50	**1.1**	**3.8**	**1.2**	< 0.50	**120**
MW-2900	08/15/13	FD	< 0.50	< 0.50	< 0.50	**3.9**	**0.64**	**400**	< 0.50	**0.84**	< 0.50	**1.1**	**4.0**	**1.3**	< 0.50	**120**
MW-29	08/15/13	SPT	< 1.0	< 1.0	< 2.0	**3.2**	< 1.0	**290**	< 2.0	< 2.0	< 2.0	< 2.0	**4.6**	< 20	< 2.0	**170**
MW-29	11/13/13	ORG	< 0.50	< 0.50	**0.53**	**3.4**	**0.63**	**260**	< 0.50	**0.81**	< 0.50	**1.1**	**5.9**	**1.8**	< 0.50	**99**
MW-29	02/07/14	ORG	< 0.50	< 0.50	< 0.50	**3.1**	< 0.50	**290**	< 0.50	**1.3**	< 0.50	**1.1**	**6.1**	**1.9**	< 0.50	**130**
MW-29	08/18/14	ORG	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	**180**	< 0.50	**0.58**	< 0.50	**0.79**	**4.4**	**1.0**	< 0.50	**73**
MW-2900	08/18/14	FD	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**170**	< 0.50	**0.73**	< 0.50	**0.80**	**4.3**	**0.99**	< 0.50	**74**
MW-29	08/18/14	SPT	< 0.50	< 0.50	< 1.0	< 0.50	**2.0**	**160**	< 1.0	< 1.0	< 1.0	< 1.0	**4.1**	< 10	< 1.0	**69 ET**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-29	11/03/14	ORG	**0.57**	< 0.50	< 0.50	**2.6**	**0.55**	**240**	< 0.50	**0.78**	< 0.50	**0.89**	**4.6**	**1.1**	< 0.50	**97**
MW-29	02/13/15	ORG	< 0.50	< 0.50	**0.60**	**4.4**	**0.94**	**460**	< 0.50	**1.3**	< 0.50	**1.5**	**4.8**	**1.9**	< 0.50	**180**
MW-29	03/06/15	ORG	< 0.50	< 0.50	< 0.50	**3.1**	**0.61**	**300**	< 0.50	**1.1**	< 0.50	**1.1**	**3.7**	**1.4**	< 0.50	**120**
MW-29	04/02/15	ORG	< 0.50	< 0.50	< 0.50	**3.3**	**0.64**	**290**	< 0.50	**1.1**	< 0.50	**1.1**	**4.1**	**1.6**	< 0.50	**140**
MW-29	05/01/15	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.70**	**360**	< 0.50	**0.98**	< 0.50	**0.95**	**3.6**	**1.5**	< 0.50	**130**
MW-29	06/05/15	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.67**	**370**	< 0.50	**1.0**	< 0.50	**0.98**	**3.5**	**1.7**	< 0.50	**130**
MW-29	07/14/15	ORG	< 0.50	< 0.50	< 0.50	**3.2**	**0.59**	**360**	< 0.50	**0.76**	< 0.50	**0.99**	**3.8**	**1.3**	< 0.50	**110**
MW-29	08/06/15	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.75**	**330**	< 0.50	**1.0**	< 0.50	**1.0**	**3.7**	**1.2**	< 0.50	**130**
MW-29	09/03/15	ORG	< 0.50	< 0.50	< 0.50	**3.1**	**0.76**	**390**	< 0.50	**0.97**	< 0.50	**0.94**	**3.8**	**1.4**	< 0.50	**150**
MW-29	10/06/15	ORG	< 0.50	< 0.50	**0.52**	**3.7**	**0.62**	**360**	< 0.50	**0.87**	< 0.50	**1.2**	**3.6**	**1.9**	< 0.50	**130**
MW-29	11/05/15	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.67**	**350**	< 0.50	**0.89**	< 0.50	**1.1**	**3.2**	**1.4**	< 0.50	**120**
MW-29	12/03/15	ORG	< 0.50	< 0.50	**0.52**	**3.7**	**0.82**	**450**	< 0.50	**1.2**	< 0.50	**1.3**	**4.1**	**2.0**	< 0.50	**170**
MW-29	12/11/15	ORG	< 0.50	< 0.50	**0.53**	**5.3**	**0.79**	**480**	< 0.50	**1.0**	< 0.50	**1.2**	**3.6**	**1.8**	< 0.50	**100**
MW-29	01/07/16	ORG	< 0.50	< 0.50	< 0.50	**4.3**	**0.79**	**440**	< 0.50	**0.96**	< 0.50	**1.1**	**2.6**	**2.1**	< 0.50	**110**
MW-29	01/21/16	ORG	< 0.50	< 0.50	< 0.50	**4.0**	**0.85**	**410**	< 0.50	**0.95**	< 0.50	**1.1**	**2.6**	**1.8**	< 0.50	**110**
MW-29	02/01/16	ORG	< 0.50	< 0.50	**0.56**	**4.6**	**0.88**	**500**	< 0.50	**0.92**	< 0.50	**0.97**	**2.5**	**2.2**	< 0.50	**110**
MW-29	03/03/16	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.65**	**330**	< 0.50	**0.87**	< 0.50	**0.97**	**2.9**	**1.1**	< 0.50	**120**
MW-29	04/05/16	ORG	< 0.50	< 0.50	< 0.50	**3.9**	< 0.50	**330**	< 0.50	**0.90**	< 0.50	**1.1**	**2.5**	**1.2**	< 0.50	**91**
MW-29	05/05/16	ORG	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	**380**	< 0.50	**0.96**	< 0.50	**1.2**	**2.6**	**1.0**	< 0.50	**94**
MW-29	06/01/16	ORG	< 0.50	< 0.50	< 0.50	**3.5**	**0.62**	**250**	< 0.50	**0.96**	< 0.50	**0.98**	**3.5**	**1.7**	< 0.50	**130**
MW-29	06/16/16	ORG	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	**240**	< 0.50	**1.1**	< 0.50	**1.2**	**2.5**	< 0.50	< 0.50	**82**
MW-29	07/07/16	ORG	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	**310**	< 0.50	< 0.50	< 0.50	**1.1**	**3.1**	**1.5**	< 0.50	**95**
MW-29	07/21/16	ORG	< 0.50	< 0.50	**0.54**	**4.1**	< 0.50	**410**	< 0.50	< 0.50	< 0.50	**1.1**	**2.8**	**1.5**	< 0.50	**81**
MW-29	08/04/16	ORG	< 0.50	< 0.50	< 0.50	**3.3**	**0.57**	**250**	< 0.50	**0.88**	< 0.50	**1.0**	**3.1**	**1.2**	< 0.50	**77**
MW-29	08/18/16	ORG	< 0.50	< 0.50	< 0.50	**2.6**	**0.51**	**250**	< 0.50	**0.63**	< 0.50	**0.90**	**2.5**	**0.66**	< 0.50	**86**
MW-29	09/08/16	ORG	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	**340**	< 0.50	**0.67**	< 0.50	**0.83**	**2.7**	**0.98**	< 0.50	**77**
MW-29	09/15/16	ORG	< 0.50	< 0.50	< 0.50	**2.4**	**0.52**	**250**	< 0.50	**0.71**	< 0.50	< 0.50	**2.5**	**0.71**	< 0.50	**78**
MW-29	10/06/16	ORG	< 0.50	< 0.50	< 0.50	**2.7**	**0.51**	**280**	< 0.50	**0.82**	< 0.50	**0.87**	**2.7**	**1.3**	< 0.50	**72**
MW-29	10/20/16	ORG	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**240**	< 0.50	**0.81**	< 0.50	< 0.50	**2.2**	**1.1**	< 0.50	**71**
MW-29	11/01/16	ORG	< 0.50	< 0.50	< 0.50	**2.6**	**0.62**	**360**	< 0.50	**0.84**	< 0.50	**0.63**	**2.7**	**1.6**	< 0.50	**6.6 U**
MW-29	11/17/16	ORG	< 0.50	< 0.50	< 0.50	**3.1**	**0.53**	**260**	< 0.50	**0.65**	< 0.50	**0.92**	**2.7**	**1.1**	< 0.50	**79**
MW-29	12/01/16	ORG	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**220**	< 0.50	**0.53**	< 0.50	**0.77**	**2.0**	**0.72**	< 0.50	**85**
MW-29	12/16/16	ORG	< 0.50	< 0.50	< 0.50	**3.1**	< 0.50	**240**	< 0.50	**0.59**	< 0.50	**0.93**	**2.1**	**0.98**	< 0.50	**6.3 U**
MW-29	01/06/17	ORG	< 0.50	< 0.50	< 0.50	**3.5**	**0.70**	**260**	< 0.50	**0.60**	< 0.50	**1.1**	**1.7**	**0.80**	< 0.50	**110**
MW-29	01/26/17	ORG	< 0.50	< 0.50	< 0.50	**3.1**	**0.68**	**330**	< 0.50	**0.84**	< 0.50	**1.2**	**1.8**	**0.78**	< 0.50	**130**
MW-29	02/09/17	ORG	< 0.50	< 0.50	< 0.50	**2.9**	**0.65**	**320**	< 0.50	**0.70**	< 0.50	**0.90**	**1.8**	**1.1**	< 0.50	**110**
MW-29	02/16/17	ORG	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	**220**	< 0.50	**0.70**	< 0.50	**0.98**	**1.7**	**0.81**	< 0.50	**81**
MW-29	03/02/17	ORG	< 0.50	< 0.50	< 0.50	**2.5**	**0.53**	**250**	< 0.50	**0.72**	< 0.50	**0.88**	**1.4**	**0.86**	< 0.50	**78**
MW-29	03/16/17	ORG	< 0.50	< 0.50	< 0.50	**2.4**	**0.51**	**250**	< 0.50	**0.85**	< 0.50	**1.0**	**1.6**	**0.69**	< 0.50	**95**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)														Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																	
MW-29	04/06/17	ORG	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	**190**	< 0.50	< 0.50	< 0.50	**0.80**	**1.4**	< 0.50	< 0.50	**55**
MW-29	04/20/17	ORG	< 0.50	< 0.50	< 0.50	**2.4**	**0.57**	**220**	< 0.50	**0.88**	< 0.50	**0.96**	**1.2**	**0.59**	< 0.50	**67**
MW-29	05/04/17	ORG	< 0.50	< 0.50	< 0.50	**2.7**	< 0.50	**240**	< 0.50	**0.97**	< 0.50	**1.0**	**1.3**	**0.66**	< 0.50	**2.7 U**
MW-29	05/18/17	ORG	< 0.50	< 0.50	**0.25 J**	**2.0**	**0.40 J**	**210**	**0.20 J**	**0.77**	< 0.50	**0.78**	**1.6**	**0.47 J**	< 0.50	**87**
MW-29	06/01/17	ORG	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	**220**	< 0.50	**0.63**	< 0.50	**0.87**	**1.4**	< 0.50	< 0.50	**75**
MW-29	06/15/17	ORG	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	**190**	< 0.50	**0.70**	< 0.50	**0.73**	**1.5**	< 0.50	< 0.50	**72**
MW-29	07/06/17	ORG	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**230**	< 0.50	**0.66**	< 0.50	**0.77**	**1.7**	< 0.50	< 0.50	**75**
MW-29	07/20/17	ORG	< 0.50	< 0.50	< 0.50	**2.3**	**0.52**	**240**	< 0.50	**0.71**	< 0.50	**0.83**	**1.9**	**0.64**	< 0.50	**79**
MW-29	08/03/17	ORG	< 0.50	< 0.50	< 0.50	**2.8**	**0.56**	**250**	< 0.50	**0.77**	< 0.50	**0.86**	**2.0**	< 0.50	< 0.50	**73**
MW-29	08/17/17	ORG	< 0.50	< 0.50	< 0.50	**2.3**	**0.57**	**160**	< 0.50	**0.84**	< 0.50	**0.93**	**2.1**	< 0.50	< 0.50	**68**
MW-29	09/01/17	ORG	< 0.50	< 0.50	< 0.50	**2.0**	**0.51**	**200**	< 0.50	**0.83**	< 0.50	**0.81**	**1.9**	< 0.50	< 0.50	**73**
MW-29	09/14/17	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**160**	< 0.50	**0.98**	< 0.50	**0.70**	**1.9**	< 0.50	< 0.50	**82**
MW-29	10/06/17	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.49	**140**	< 0.50	**0.52**	< 0.50	**0.58**	**1.2**	< 0.50	< 0.50	**59**
MW-29	10/19/17	ORG	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	**0.56**	**1.1**	< 0.50	< 0.50	**44**
MW-29	11/06/17	ORG	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	**110**	< 0.50	**0.57**	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	**31**
MW-29	11/20/17	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**120**	< 0.50	**0.56**	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	**47**
MW-29	12/04/17	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**110**	< 0.50	**0.59**	< 0.50	**0.50**	**0.73**	< 0.50	< 0.50	**42**
MW-29	12/14/17	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**99**	< 0.50	**0.60**	< 0.50	< 0.50	**0.99**	< 0.50	< 0.50	**53**
MW-29	01/04/18	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	**0.88**	< 0.50	< 0.50	**32**
MW-29	01/18/18	ORG	< 0.50	< 0.50	< 0.50	**0.82**	< 0.50	**85**	< 0.50	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	< 0.50	**31**
MW-29	02/01/18	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**170**	< 0.50	**0.52**	< 0.50	**0.62**	**1.4**	**0.74**	< 0.50	**44**
MW-29	02/15/18	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	**0.60**	**1.5**	**0.55**	< 0.50	**55**
MW-29	03/15/18	ORG	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**110**	< 0.50	**0.62**	< 0.50	< 0.50	**1.2**	**0.54**	< 0.50	**40**
MW-29	03/29/18	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**120**	< 0.50	**0.57**	< 0.50	**0.57**	**1.3**	< 0.50	< 0.50	**66**
MW-29	04/05/18	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.49	**120**	< 0.50	**0.57**	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	**31**
MW-29	04/19/18	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**120**	< 0.50	**0.55**	< 0.50	**0.51**	**1.2**	< 0.50	< 0.50	**27**
MW-29	05/03/18	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**100**	< 0.50	**0.58**	< 0.50	**0.53**	**1.3**	**0.55**	< 0.50	**43**
MW-29	05/17/18	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	**0.50**	< 0.50	**47**
MW-29	06/07/18	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	**44**
MW-29	06/21/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**110**	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	**0.58**	< 0.50	**47**
MW-29	07/05/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**110**	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	**0.51**	< 0.50	**56**
MW-29	07/19/18	ORG	< 0.50	< 0.50	< 0.50	**0.85**	< 0.50	**170**	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	**0.62**	< 0.50	**61**
MW-29	08/02/18	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**110**	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	**0.53**	< 0.50	**65**
MW-29	08/16/18	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	**0.53**	**1.6**	< 0.50	< 0.50	**62**
MW-29	09/11/18	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**110**	< 0.50	< 0.50	< 0.50	**0.53**	**1.6**	< 0.50	< 0.50	**70**
MW-29	09/20/18	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**120**	< 0.50	**0.52**	< 0.50	< 0.50	**1.7**	**0.62**	< 0.50	**72**
MW-29	10/05/18	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**110**	< 0.50	< 0.50	< 0.50	**0.51**	**1.5**	**0.52**	< 0.50	**97**
MW-29	11/15/18	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.50	**140**
MW-29	12/04/18	ORG	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	**150**	< 0.50	**0.50**	< 0.50	**0.62**	**1.9**	**0.79**	< 0.50	**72**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-29	12/19/18	ORG	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	**0.58**	**1.8**	**0.78**	< 0.50	**91**
MW-29	01/03/19	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**100**	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	**0.60**	< 0.50	**110**
MW-29	01/24/19	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**150**	< 0.50	**0.59**	< 0.50	**0.52**	**1.8**	**0.87**	< 0.50	**110**
MW-29	02/07/19	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**150**	< 0.50	< 0.50	< 0.50	**0.62**	**1.7**	**0.72**	< 0.50	**93**
MW-29	02/21/19	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	**0.66**	**1.6**	**0.60**	< 0.50	**120**
MW-29 Historical Range* **			< 0.50 - 0.57	< 0.50 - < 5.0	< 0.50 - 0.80	< 0.50 - 9.2	< 0.50 - 1.4	99 - 900 E	< 0.50 - 0.61	< 0.50 - 6.6	< 0.50 - < 5.0	< 0.50 - 2.3	0.58 - 8.3	< 0.50 - 2.2	< 0.50 - < 5.0	26 BE - 301
MW-30A	12/18/08	ORG	< 0.50	< 0.50	< 0.50	**2.9**	**0.67**	**270**	< 0.50	**0.58**	< 0.50	**1.1**	**0.72**	< 0.50	< 0.50	**86**
MW-30A	12/18/08	SPT	< 1	< 1	< 1	**3.0**	< 1	**290**	< 1	< 1	< 1	**1.0**	< 1	< 1	< 1	**110**
MW-30A	01/07/09	ORG	< 0.50	< 0.50	< 0.50	**2.5**	**0.57**	**270**	< 0.50	**0.52**	< 0.50	**0.95**	**0.52**	< 0.50	< 0.50	**95**
MW-30A	03/17/09	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**140 E**	< 0.50	< 0.50	< 0.50	**0.57**	< 0.50	< 0.50	< 0.50	**53**
MW-30A	03/17/09	SPT	< 1	< 1	< 1	< 1	< 1	**69 E**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**40**
MW-30A	06/23/09	ORG	< 0.50	< 0.50	< 0.50	**0.89**	< 0.50	**80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**
MW-30A	06/23/09	SPT	< 1	< 1	< 1	< 1	< 1	**79**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**38**
MW-30A	09/02/09	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**46**
MW-30A	09/02/09	SPT	< 1	< 1	< 1	**1.0**	< 1	**110**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**54**
MW-30A	12/10/09	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**92**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**36**
MW-30A	03/03/10	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**85 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**43**
MW-3000A	03/03/10	FD	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**65 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**41**
MW-30A	06/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**24**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**
MW-30A	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**
MW-30A	12/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-30A	03/30/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.44**
MW-30A	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.21**
MW-30A	08/05/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.93**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-30A	11/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30**
MW-30A	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.66**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	05/10/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	08/10/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.50	< 0.20
MW-30A	11/06/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.84**	< 0.50	< 0.50	< 0.50	< 0.50	**0.98**	< 0.50	< 0.50	< 0.20
MW-30A	01/03/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	< 0.50	< 0.50	< 0.50	**0.62**	< 0.50	< 0.50	< 0.20
MW-30A	02/06/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	02/06/13	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0
MW-30A	05/15/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.69**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	08/15/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.20
MW-30A	11/13/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.55**	< 0.50	< 0.50	< 0.20
MW-30A	02/07/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	< 0.50	< 0.20
MW-30A	05/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.86**	< 0.50	< 0.50	< 0.20
MW-30A	08/21/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	< 0.50	**2.1**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-30A	11/05/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.8**	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	**1.9**
MW-30A	02/06/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	05/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	08/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.63**	< 0.50	< 0.50	< 0.20
MW-30A	11/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.65**	< 0.50	< 0.50	< 0.20
MW-30A	02/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	05/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.99**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.23**
MW-30A	08/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	11/08/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	< 0.50	< 0.20
MW-30A	02/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	05/16/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-30A	08/10/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	11/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	02/28/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	05/09/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A	08/22/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.41 J**	< 0.50	< 0.50	< 0.20
MW-30A	11/07/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.54**	< 0.50	< 0.50	< 0.20
MW-30A	02/12/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 2.9	< 0.50 - 0.67	< 0.50 - 270	< 0.50	< 0.50 - 0.58	< 0.50	< 0.50 - 1.1	< 0.50 - 1.9	< 0.50	< 0.50	< 0.20 - 95
MW-30B	12/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	**1.3**	< 0.50	< 0.50	< 0.50	**26**	< 0.50	< 0.50	< 2.0
MW-30B	12/18/08	SPT	< 1	< 1	< 1	< 1	< 1	**4.0**	**1.0**	< 1	< 1	< 1	**24**	< 1	< 1	< 1
MW-30B	01/07/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-30B	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.0**	**2.0**	< 0.50	< 0.50	< 0.50	**35**	< 0.50	< 0.50	**28E**
MW-30B	03/17/09	SPT	< 1	< 1	< 1	< 1	< 1	**5.0**	**2.0**	< 1	< 1	< 1	**30**	< 1	< 1	< 1E
MW-30B	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.91**	< 0.50	< 0.50	< 2.0
MW-30B	06/23/09	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-30B	09/02/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.96**	< 0.50	< 0.50	< 2.0
MW-30B	09/02/09	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-30B	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	**0.67**	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 2.0
MW-3000B	12/10/09	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	**0.70**	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 2.0
MW-30B	12/10/09	SPT	< 1	< 1	< 1	< 1	< 1	**1.0**	< 1	< 1	< 1	< 1	**10**	< 1	< 1	< 1
MW-30B	03/30/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	**9.4**	< 0.50	< 0.50	< 2.0
MW-30B	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	**4.3**	< 0.50	< 0.50	< 0.50	**78**	< 0.50	< 0.50	< 2.0
MW-30B	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**	**3.4**	< 0.50	< 0.50	< 0.50	**65**	< 0.50	< 0.50	< 2.0
MW-3000B	09/08/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	**3.7**	< 0.50	< 0.50	< 0.50	**70**	< 0.50	< 0.50	< 2.0
MW-30B	12/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.9**	**2.8**	< 0.50	< 0.50	< 0.50	**49**	< 0.50	< 0.50	< 2.0
MW-30B	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	**4.3**	< 0.50	< 0.50	< 0.50	**87**	< 0.50	**3.5**	**0.56**
MW-30B	08/05/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18 E**	**5.6**	< 0.50	< 0.50	< 0.50	**87**	< 0.50	**4.5**	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-3000B	08/05/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19 E**	**5.6**	< 0.50	< 0.50	< 0.50	**87**	< 0.50	**4.7**	< 0.20
MW-30B	08/05/11	SPT	< 1	< 1	< 1	< 1	< 1	**10 E**	**3.0**	< 1	< 1	< 1	**73**	< 1	**3.0**	< 1
MW-30B	11/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13.6**	**4.2**	< 0.50	< 0.50	< 0.50	**80.7**	< 0.50	**3.2**	**0.40**
MW-3000B	11/02/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13.7**	**4.4**	< 0.50	< 0.50	< 0.50	**82.6**	< 0.50	**2.8**	**0.40**
MW-30B	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	**4.2**	< 0.50	< 0.50	< 0.50	**75**	< 0.50	< 0.50	**0.30**
MW-30B	02/09/12	SPT	< 1	< 1	< 1	< 1	< 1	**8.0**	**3.0**	< 1	< 1	< 1	**53**	< 1	< 1	< 1
MW-30B	05/10/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	**3.8**	< 0.50	< 0.50	< 0.50	**63**	< 0.50	**1.8**	**0.27**
MW-30B	08/10/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**21 E**	**4.4**	< 0.50	< 0.50	< 0.50	**88**	< 0.50	**2.0**	< 0.20
MW-30B	08/10/12	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**11 E**	**3.7**	< 1.0	< 1.0	< 1.0	**74**	< 10	**1.8**	< 1
MW-30B	11/06/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	**3.2**	< 0.50	< 0.50	< 0.50	**68**	< 0.50	**1.6**	< 0.20
MW-30B	01/03/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	**4.5**	< 0.50	< 0.50	< 0.50	**93**	< 0.50	**2.5**	< 0.20
MW-30B	05/15/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	**4.6**	< 0.50	< 0.50	< 0.50	**93**	< 0.50	**0.82**	**0.40**
MW-3000B	05/15/13	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	**4.5**	< 0.50	< 0.50	< 0.50	**89**	< 0.50	**0.77**	**0.37**
MW-30B	05/15/13	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**15**	**4.5**	< 1.0	< 1.0	< 1.0	**94**	< 10	**1.4**	< 1.0
MW-30B	02/06/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**	**4.6**	< 0.50	< 0.50	< 0.50	**96**	< 0.50	**4.4**	< 0.20
MW-30B	08/15/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**	**5.9**	< 0.50	< 0.50	< 0.50	**100**	< 0.50	**1.1**	**0.36**
MW-3000B	08/15/13	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**	**5.7**	< 0.50	< 0.50	< 0.50	**100**	< 0.50	**1.0**	**0.29**
MW-30B	08/15/13	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	**16**	**5.1**	< 1.0	< 1.0	< 1.0	**100**	< 10	**1.2**	< 1.0
MW-30B	11/13/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	**4.0**	< 0.50	< 0.50	< 0.50	**69**	< 0.50	**1.6**	< 0.20
MW-30B	02/07/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**	**4.6**	< 0.50	< 0.50	< 0.50	**92**	< 0.50	**1.0**	**0.68**
MW-30B	05/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	**6.0**	< 0.50	< 0.50	< 0.50	**98**	< 0.50	**0.68**	< 0.20
MW-30B	08/21/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**	**4.4**	< 0.50	< 0.50	< 0.50	**99**	< 0.50	**0.84**	< 0.20
MW-3000B	08/21/14	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	**4.1**	< 0.50	< 0.50	< 0.50	**100**	< 0.50	**0.78**	< 0.20
MW-30B	08/21/14	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**15**	**4.7**	< 1.0	< 1.0	< 1.0	**94**	< 10	< 1.0	**2.1**
MW-30B	11/05/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	**4.1**	< 0.50	< 0.50	< 0.50	**81**	< 0.50	**0.86**	**0.54**
MW-30B	02/06/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	**0.86**	< 0.50	< 0.50	< 0.50	**20**	< 0.50	**0.66**	< 0.20
MW-30B	05/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**	**4.4**	< 0.50	< 0.50	< 0.50	**88**	< 0.50	**0.73**	**0.50**
MW-30B	08/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	**4.7**	< 0.50	< 0.50	< 0.50	**110**	< 0.50	**0.52**	**0.54**
MW-30B	11/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	**4.7**	< 0.50	< 0.50	< 0.50	**77**	< 0.50	< 0.50	**0.44**
MW-3000B	11/03/15	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	**4.6**	< 0.50	< 0.50	< 0.50	**76**	< 0.50	< 0.50	**0.35**
MW-30B	11/03/15	SPT	< 0.50	< 0.50	<1.0	<1.0	<0.50	**18**	**3.8**	<1.0	<1.0	<1.0	**68**	<10	<1.0	<1.0
MW-30B	02/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.9**	**2.2**	< 0.50	< 0.50	< 0.50	**24**	< 0.50	**0.54**	**0.23**
MW-30B	05/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**	**5.5**	< 0.50	< 0.50	< 0.50	**96**	< 0.50	**0.75**	**0.43**
MW-30B	08/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**	**4.3**	< 0.50	< 0.50	< 0.50	**80**	< 0.50	< 0.50	**0.34**
MW-30B	11/08/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	**4.2**	< 0.50	< 0.50	< 0.50	**68**	< 0.50	< 0.50	< 0.20
MW-30B	02/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	**3.8**	< 0.50	< 0.50	< 0.50	**71**	< 0.50	< 0.50	< 0.20
MW-3000B	02/09/17	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	**4.0**	< 0.50	< 0.50	< 0.50	**72**	< 0.50	< 0.50	< 0.20
MW-30B	02/09/17	SPT	< 0.50	< 0.50	< 1.0	< 1.0	<0.50	**14**	**3.5**	< 1.0	< 1.0	< 1.0	**66**	< 10	**0.24 J**	< 1.0
MW-30B	05/16/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	**5.1**	< 0.50	< 0.50	< 0.50	**70**	< 0.50	< 0.50	< 2.0
MW-30B	08/10/17	ORG	< 0.50	< 0.50	**0.39 J**	< 0.50	< 0.50	**17**	**4.6**	< 0.50	< 0.50	< 0.50	**88**	< 0.50	**0.27 J**	**0.17 J**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-30B	11/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	**5.2**	< 0.50	< 0.50	< 0.50	**86**	< 0.50	< 0.50	< 0.20
MW-30B	02/28/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**	**5.2**	< 0.50	< 0.50	< 0.50	**79**	< 0.50	< 0.50	< 0.20
MW-3000B	02/28/18	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**	**5.1**	< 0.50	< 0.50	< 0.50	**77**	< 0.50	< 0.50	< 0.20
MW-30B	02/28/18	SPT	**0.20 J**	< 0.50	< 1.0	< 1.0	<0.50	**17**	**5.4**	< 1.0	< 1.0	< 1.0	**83**	< 10	<1.0	< 1.0
MW-30B	05/09/18	ORG	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	**19**	**6.9**	< 0.50	< 0.50	< 0.50	**110**	< 0.50	< 0.50	< 0.20
MW-30B	08/23/18	ORG	< 0.50	< 0.50	**0.34 J**	< 0.50	< 0.50	**16**	**5.2**	< 0.50	< 0.50	< 0.50	**82**	< 0.50	< 0.50	**0.52**
MW-3000B	08/23/18	FD	< 0.50	< 0.50	**0.34 J**	< 0.50	< 0.50	**16**	**5.4**	< 0.50	< 0.50	< 0.50	**84**	< 0.50	**0.18 J**	**0.12 J**
MW-30B	08/23/18	SPT	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	**17**	**4.9**	< 1.0	< 1.0	< 1.0	**88**	<10.0	< 1.0	**0.33 J**
MW-30B	11/07/18	ORG	< 0.50	< 0.50	**0.43 J**	< 0.50	< 0.50	**20**	**4.9**	< 0.50	< 0.50	< 0.50	**80**	< 0.50	< 0.50	**0.49**
MW-30B	02/12/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	**4.5**	< 0.50	< 0.50	< 0.50	**82**	< 0.50	< 0.50	**0.60**
MW-3000B	02/12/19	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**	**4.3**	< 0.50	< 0.50	< 0.50	**79**	< 0.50	< 0.50	**0.51**
MW-30B	02/12/19	SPT	< 1.0	< 0.50	**0.40 J**	< 1.0	**0.23 J**	**18**	**5.1**	< 1.0	< 1.0	< 1.0	**92**	< 10	< 1.0	< 1.0
MW-30B Historical Range* **			< 0.50	< 0.50	< 0.50 - 0.43 J	< 0.50	< 0.50	<0.50 - 22	< 0.50 - 6.9	< 0.50	< 0.50	< 0.50	< 0.50 - 110	< 0.50	< 0.50 - 4.5	< 0.20 - 28 E
MW-31	10/13/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**74**	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**	< 0.50	< 0.50	< 2.0
MW-3100	10/13/09	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**72**	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	< 0.50	< 2.0
MW-31	11/04/09	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**290**	**0.77**	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	**4.1**
MW-3100	11/04/09	FD	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**270**	**0.73**	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	**3.9**
MW-31	11/04/09	SPT	< 1	< 1	< 1	**2.0**	< 1	**270**	< 1	< 1	< 1	< 1	**11**	< 1	< 1	< 4
MW-31	12/10/09	ORG	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**240**	**0.73**	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	**2.8**
MW-3100	12/10/09	FD	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**230**	**0.72**	< 0.50	< 0.50	< 0.50	**11**	< 0.50	< 0.50	**2.8**
MW-31	12/10/09	SPT	< 1	< 1	< 1	**1.0**	< 1	**190**	< 1	< 1	< 1	< 1	**8**	< 1	< 1	**3.0**
MW-31	03/03/10	ORG	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**90**	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	< 0.50	< 0.50	< 2.0
MW-31	03/03/10	SPT	< 1	< 1	< 1	< 1	< 1	**87**	< 1	< 1	< 1	< 1	**4.0**	< 1	< 1	**1.0**
MW-31	06/09/10	ORG	< 0.50	< 0.50	< 0.50	**3.0**	< 0.50	**370**	**1.2**	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	**5.3**
MW-3100	06/09/10	FD	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	**360**	**1.1**	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	**5.2**
MW-31	06/09/10	SPT	< 1	< 1	< 1	**3.0**	< 1	**370**	< 1	< 1	< 1	< 1	**15**	< 1	< 1	**7.0**
MW-31	09/09/10	ORG	< 1.0	< 1.0	< 1.0	**3.6**	< 1.0	**430**	**1.2**	< 1.0	< 1.0	< 1.0	**17**	< 1.0	< 1.0	**5.6**
MW-31	09/09/10	SPT	< 1	< 1	< 1	**3.0**	< 1	**430**	< 1	< 1	< 1	< 1	**15**	< 1	< 1	**7.0**
MW-31	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**68**	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	< 0.50	< 2.0
MW-31	03/28/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**0.57**	**0.25**
MW-3100	03/28/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	**0.52**	**0.25**
MW-31	06/24/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**61**	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**	< 0.50	**0.83**	**0.51**
MW-31	08/05/11	ORG	< 0.50	< 0.50	< 0.50	**0.69**	< 0.50	**93**	< 0.50	< 0.50	< 0.50	< 0.50	**6.9**	< 0.50	< 0.50	**1.1**
MW-31	11/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32.6**	< 0.50	< 0.50	< 0.50	< 0.50	**4.4**	< 0.50	**0.6**	< 2.0
MW-31	11/03/11	SPT	< 1	< 1	< 1	< 1	< 1	**28**	< 1	< 1	< 1	< 1	**3.0**	< 1	< 1	< 1
MW-31	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	< 0.50	< 0.50	< 0.50	< 0.50	**3.8**	< 0.50	**0.52**	< 0.20
MW-31	05/11/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**48**	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**	< 0.50	**0.75**	**0.49**
MW-31	08/06/12	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**190**	**0.57**	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	**0.37**
MW-3100	08/06/12	FD	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**180**	**0.61**	< 0.50	< 0.50	< 0.50	**9.8**	< 0.50	< 0.50	**0.40**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-31	11/06/12	ORG	< 0.50	< 0.50	< 0.50	**0.81**	< 0.50	**170**	< 0.50	< 0.50	< 0.50	< 0.50	**9.2**	< 0.50	< 0.50	**2.3**
MW-31	02/08/13	ORG	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	**330**	**0.87**	< 0.50	< 0.50	< 0.50	**21**	< 0.50	< 0.50	**4.9**
MW-31	05/14/13	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**130**	**0.55**	< 0.50	< 0.50	< 0.50	**9.2**	< 0.50	< 0.50	**2.4**
MW-31	08/14/13	ORG	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	**270**	**0.85**	**0.55**	< 0.50	< 0.50	**11**	< 0.50	**0.70**	**4.5**
MW-31	11/12/13	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**110**	< 0.50	< 0.50	< 0.50	< 0.50	**7.6**	< 0.50	**1.0**	**4.6**
MW-31	02/07/14	ORG	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	**380**	**1.2**	**0.77**	< 0.50	< 0.50	**19**	< 0.50	< 0.50	**13**
MW-31	05/21/14	ORG	< 0.50	< 0.50	< 0.50	**3.7**	< 0.50	**370**	**1.0**	**2.5**	< 0.50	**1.2**	**10**	< 0.50	< 0.50	**13**
MW-3100	05/21/14	FD	< 0.50	< 0.50	< 0.50	**3.8**	< 0.50	**390**	**0.88**	**1.2**	< 0.50	**1.2**	**10**	< 0.50	< 0.50	**13**
MW-31	05/21/14	SPT	< 0.50	< 0.50	< 1.0	**2.9**	< 0.50	**410**	< 1.0	< 1.0	< 1.0	< 1.0	**11**	< 10	< 1.0	**10**
MW-31	08/21/14	ORG	< 0.50	< 0.50	< 0.50	**3.0**	< 0.50	**350**	**0.58**	**0.64**	< 0.50	**0.75**	**11**	< 0.50	**0.81**	**16**
MW-31	11/06/14	ORG	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	**210**	< 0.50	< 0.50	< 0.50	< 0.50	**9.1**	< 0.50	< 0.50	**6.8**
MW-31	02/05/15	ORG	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**160**	< 0.50	< 0.50	< 0.50	< 0.50	**6.7**	< 0.50	< 0.50	**11**
MW-31	05/13/15	ORG	< 0.50	< 0.50	< 0.50	**2.6**	< 0.50	**320**	**0.60**	**0.53**	< 0.50	< 0.50	**11**	< 0.50	< 0.50	**12**
MW-31	08/11/15	ORG	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	**290**	**0.55**	< 0.50	< 0.50	< 0.50	**9.5**	< 0.50	< 0.50	**8.6**
MW-3100	08/11/15	FD	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	**300**	< 0.50	< 0.50	< 0.50	< 0.50	**9.2**	< 0.50	< 0.50	**9.2**
MW-31	08/11/15	SPT	<1.0	<1.0	<2.0	**2.1**	<1.0	**230**	<2.0	<2.0	<2.0	<2.0	**11**	<2.0	<2.0	**8.8**
MW-31	11/04/15	ORG	< 0.50	< 0.50	< 0.50	**0.55**	< 0.50	**68**	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**	< 0.50	< 0.50	<0.20
MW-31	02/04/16	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**190**	**0.83**	< 0.50	< 0.50	< 0.50	**7.8**	< 0.50	< 0.50	**2.7**
MW-3100	02/04/16	FD	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**170**	**0.80**	< 0.50	< 0.50	< 0.50	**7.7**	< 0.50	< 0.50	**2.9**
MW-31	02/04/16	SPT	<1.0	<1.0	<1.0	<1.0	<1.0	**150**	<1.0	<1.0	<1.0	<1.0	**8.5**	<1.0	<1.0	**4.4**
MW-31	05/04/16	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	**6.2**	< 0.50	**0.87**	**3.9**
MW-31	08/03/16	ORG	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	**170**	< 0.50	< 0.50	< 0.50	< 0.50	**7.2**	< 0.50	**0.75**	**4.7**
MW-3100	08/03/16	FD	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	**160**	< 0.50	< 0.50	< 0.50	< 0.50	**7.2**	< 0.50	**0.57**	**3.7**
MW-31	08/03/16	SPT	<1.0	< 0.50	< 1.0	**1.5**	< 0.50	**110**	<1.0	<1.0	<1.0	<1.0	**5.7**	< 10	<1.0	**7.6**
MW-31	11/09/16	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	**4.8**	< 0.50	**0.69**	**3.8**
MW-31	02/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**52**	< 0.50	< 0.50	< 0.50	< 0.50	**4.8**	< 0.50	< 0.50	< 2.0
MW-31	05/17/17	ORG	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**63**	**0.21**	< 0.50	< 0.50	< 0.50	**4.2**	< 0.50	**0.22 J**	**3.7**
MW-31	08/10/17	ORG	< 0.50	< 0.50	< 0.50	**0.64**	< 0.50	**83**	< 0.50	< 0.50	< 0.50	< 0.50	**6.6**	< 0.50	< 0.50	< 2.0
MW-31	11/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**45**	< 0.50	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	< 0.50	**1.7**
MW-31	03/02/18	ORG	< 0.50	< 0.50	< 0.50	**0.32 J**	< 0.50	**41**	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**0.20 J**	**0.88**
MW-31	05/09/18	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**78**	**0.46 J**	< 0.50	< 0.50	< 0.50	**7.4**	< 0.50	**0.26 J**	**2.6**
MW-31	08/23/18	ORG	< 0.50	< 0.50	**0.20 J**	**1.5**	< 0.50	**140**	**0.51**	**0.19 J**	< 0.50	**0.34 J**	**8.4**	< 0.50	**0.36 J**	**4.7**
MW-31	11/30/18	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**240**	**0.68**	< 0.50	< 0.50	< 0.50	**11**	< 0.50	< 0.50	**8.8**
MW-31	02/14/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**57**	< 0.50	< 0.50	< 0.50	< 0.50	**6.0**	< 0.50	**0.70**	< 2.0
MW-31 Historical Range* **			< 0.50 - < 1.0	< 0.50 - < 1.0	< 0.50 - 0.20 J	< 0.50 - 3.7	< 0.50 - < 1.0	25 - 430	< 0.50 - 1.2	< 0.50 - 2.5	< 0.50 - < 1.0	< 0.50 - 1.2	0.50 - 21	< 0.50 - < 1.0	< 0.50 - 1.0	< 0.20 - 16
MW-32A	01/04/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3200A	01/04/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	01/04/10	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-32A	01/19/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-32A	03/04/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	06/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	09/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	06/23/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.57**
MW-32A	08/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	11/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	02/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	05/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	08/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	02/05/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	08/13/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	02/05/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	08/19/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	02/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	08/11/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	02/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	08/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	02/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**
MW-32A	08/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	02/27/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	08/21/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	02/14/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - 1.6
MW-32B	01/04/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31**	**4.0**	< 0.50	< 0.50	< 0.50	**55**	< 0.50	< 0.50	< 2.0
MW-3200B	01/04/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**	**4.0**	< 0.50	< 0.50	< 0.50	**57**	< 0.50	< 0.50	**2.0**
MW-32B	01/04/10	SPT	< 1	< 1	< 1	< 1	< 1	**27**	**3.0**	< 1	< 1	< 1	**44**	< 1	< 1	**3.0**
MW-32B	01/19/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**38**	**4.2**	< 0.50	< 0.50	< 0.50	**59**	< 0.50	< 0.50	< 2.0
MW-3200B	01/19/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**38**	**4.2**	< 0.50	< 0.50	< 0.50	**59**	< 0.50	< 0.50	< 2.0
MW-32B	03/05/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	**1.9**	< 0.50	< 0.50	< 0.50	**24**	< 0.50	< 0.50	< 2.0
MW-32B	03/05/10	SPT	< 1	< 1	< 1	< 1	< 1	**15**	**2.0**	< 1	< 1	< 1	**21**	< 1	< 1	**1.0**
MW-32B	06/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	**2.3**	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	< 2.0
MW-3200B	06/09/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	**3.0**	< 0.50	< 0.50	< 0.50	**33**	< 0.50	< 0.50	< 2.0
MW-32B	09/07/10	ORG	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**58**	**5.7**	< 0.50	< 0.50	< 0.50	**63**	< 0.50	< 0.50	**3.0**
MW-32B	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**44**	**4.2**	< 0.50	< 0.50	< 0.50	**45**	< 0.50	< 0.50	< 2.0
MW-3200B	12/09/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**46**	**4.3**	< 0.50	< 0.50	< 0.50	**46**	< 0.50	< 0.50	**2.0**
MW-32B	12/09/10	SPT	< 1	< 1	< 1	< 1	< 1	**27**	**3.0**	< 1	< 1	< 1	**37**	< 1	< 1	**3**
MW-32B	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**42**	**4.2**	< 0.50	< 0.50	< 0.50	**46**	< 0.50	< 0.50	**0.49**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-32B	06/23/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**35**	**2.4**	< 0.50	< 0.50	< 0.50	**31**	< 0.50	< 0.50	**1.6**
MW-32B	08/03/11	ORG	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	**77**	**5.6**	< 0.50	< 0.50	< 0.50	**54**	< 0.50	< 0.50	**2.5**
MW-32B	11/03/11	ORG	< 0.50	< 0.50	< 0.50	**0.6**	< 0.50	**69.9**	**4.3**	< 0.50	< 0.50	< 0.50	**48.6**	< 0.50	< 0.50	**2.3**
MW-32B	02/07/12	ORG	< 0.50	< 0.50	< 0.50	**0.59**	< 0.50	**73**	**4.0**	< 0.50	< 0.50	< 0.50	**44**	< 0.50	< 0.50	**1.5**
MW-3200B	02/07/12	FD	< 0.50	< 0.50	< 0.50	**0.61**	< 0.50	**74**	**4.0**	< 0.50	< 0.50	< 0.50	**46**	< 0.50	< 0.50	**1.6**
MW-32B	05/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**39**	**2.8**	< 0.50	< 0.50	< 0.50	**30**	< 0.50	< 0.50	**1.4**
MW-32B	08/09/12	ORG	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	**120**	**5.5**	< 0.50	< 0.50	< 0.50	**62**	< 0.50	< 0.50	**0.39**
MW-32B	11/07/12	ORG	< 0.50	< 0.50	< 0.50	**0.92**	< 0.50	**100**	**5.4**	< 0.50	< 0.50	< 0.50	**66**	< 0.50	< 0.50	**3.4**
MW-32B	01/03/13	ORG	< 0.50	< 0.50	< 0.50	**0.74**	< 0.50	**120**	**4.0**	< 0.50	< 0.50	< 0.50	**49**	< 0.50	< 0.50	**0.6**
MW-32B	02/05/13	ORG	< 0.50	< 0.50	< 0.50	**0.92**	< 0.50	**100**	**4.8**	< 0.50	< 0.50	< 0.50	**53**	< 0.50	< 0.50	**3.1**
MW-3200B	02/05/13	FD	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**100**	**5.0**	< 0.50	< 0.50	< 0.50	**54**	< 0.50	< 0.50	**3.0**
MW-32B	05/15/13	ORG	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	**88**	**4.7**	< 0.50	< 0.50	< 0.50	**57**	< 0.50	< 0.50	**2.8**
MW-32B	08/13/13	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**160**	**5.6**	< 0.50	< 0.50	< 0.50	**75**	< 0.50	< 0.50	**2.6**
MW-32B	11/13/13	ORG	< 0.50	< 0.50	< 0.50	**0.85**	< 0.50	**75**	**3.3**	< 0.50	< 0.50	< 0.50	**46**	< 0.50	< 0.50	**0.56E**
MW-3200B	11/13/13	FD	< 0.50	< 0.50	< 0.50	**0.86**	< 0.50	**75**	**3.1**	< 0.50	< 0.50	< 0.50	**47**	< 0.50	< 0.50	**0.6E**
MW-32B	11/13/13	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**96**	**4.4**	< 1.0	< 1.0	< 1.0	**52**	< 10	< 1.0	**3.6E**
MW-32B	02/05/14	ORG	< 0.50	< 0.50	< 0.50	**0.62**	< 0.50	**66**	**2.7**	< 0.50	< 0.50	< 0.50	**35**	< 0.50	< 0.50	**2.7**
MW-32B	05/21/14	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**150**	**5.6**	< 0.50	< 0.50	< 0.50	**59**	< 0.50	< 0.50	**0.47**
MW-32B	08/19/14	ORG	< 0.50	< 0.50	< 0.50	**0.88**	< 0.50	**97**	**4.5**	< 0.50	< 0.50	< 0.50	**64**	< 0.50	< 0.50	**0.62 E**
MW-3200B	08/19/14	FD	< 0.50	< 0.50	< 0.50	**0.83**	< 0.50	**96**	**4.2**	< 0.50	< 0.50	< 0.50	**64**	< 0.50	< 0.50	**6.5 E**
MW-32B	08/19/14	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**86**	**4.3**	< 1.0	< 1.0	< 1.0	**61**	< 10	< 1.0	**3.7 ET, E**
MW-32B	11/05/14	ORG	< 0.50	< 0.50	< 0.50	**0.87**	< 0.50	**110**	**4.4**	< 0.50	< 0.50	< 0.50	**54**	< 0.50	< 0.50	**4.5**
MW-32B	02/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**43**	**2.1**	< 0.50	< 0.50	< 0.50	**26**	< 0.50	< 0.50	**1.8**
MW-3200B	02/03/15	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**40**	**1.9**	< 0.50	< 0.50	< 0.50	**25**	< 0.50	< 0.50	**1.8**
MW-32B	02/03/15	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**32**	**1.6**	< 1.0	< 1.0	< 1.0	**21**	< 10	< 1.0	**3.5**
MW-32B	05/13/15	ORG	< 0.50	< 0.50	< 0.50	**0.84**	< 0.50	**110**	**4.2**	< 0.50	< 0.50	< 0.50	**54**	< 0.50	< 0.50	**4.3**
MW-3200B	05/13/15	FD	< 0.50	< 0.50	< 0.50	**0.83**	< 0.50	**110**	**4.1**	< 0.50	< 0.50	< 0.50	**53**	< 0.50	< 0.50	**4.3**
MW-32B	05/13/15	SPT	< 0.50	< 0.50	<1.0	< 1.0	< 0.50	**72**	**3.7**	<1.0	<1.0	<1.0	**44**	<10	<1.0	**5.9**
MW-32B	08/12/15	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**130**	**4.3**	< 0.50	< 0.50	< 0.50	**59**	< 0.50	< 0.50	**4.6**
MW-32B	11/04/15	ORG	< 0.50	< 0.50	< 0.50	**0.87**	< 0.50	**76**	**3.8**	< 0.50	< 0.50	< 0.50	**37**	< 0.50	< 0.50	**3.0**
MW-32B	02/03/16	ORG	< 0.50	< 0.50	< 0.50	**0.72**	< 0.50	**94**	**3.5**	< 0.50	< 0.50	< 0.50	**25**	< 0.50	< 0.50	**1.5**
MW-3200B	02/03/16	FD	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	**98**	**3.6**	< 0.50	< 0.50	< 0.50	**24**	< 0.50	< 0.50	**1.6**
MW-32B	02/03/16	SPT	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	**78**	**2.5**	< 1.0	< 1.0	< 1.0	**27**	< 1.0	< 1.0	**2.6**
MW-32B_1SV	05/04/16	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**120**	**4.5**	< 0.50	< 0.50	< 0.50	**42**	< 0.50	< 0.50	**2.9**
MW-32B	05/04/16	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**160**	**5.4**	< 0.50	< 0.50	< 0.50	**54**	< 0.50	< 0.50	**2.7**
MW-32B_1SV	08/02/16	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**150**	**5.6**	< 0.50	< 0.50	< 0.50	**55**	< 0.50	< 0.50	**2.9**
MW-32B	08/02/16	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**180**	**5.9**	< 0.50	< 0.50	< 0.50	**44**	< 0.50	< 0.50	**2.6**
MW-32B_1SV	11/08/16	ORG	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	**78**	**2.8**	< 0.50	< 0.50	< 0.50	**24**	< 0.50	< 0.50	**2.9**
MW-32B	11/08/16	ORG	< 0.50	< 0.50	< 0.50	**1.20**	< 0.50	**120**	**4.3**	< 0.50	< 0.50	< 0.50	**43**	< 0.50	< 0.50	**3.6**
MW-32B_1SV	02/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.4**	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-32B	02/07/17	ORG	< 0.50	< 0.50	< 0.50	**0.57**	< 0.50	**77**	**2.0**	< 0.50	< 0.50	< 0.50	**20**	< 0.50	< 0.50	< 2.0
MW-3200B	02/07/17	FD	< 0.50	< 0.50	< 0.50	**0.55**	< 0.50	**86**	**2.3**	< 0.50	< 0.50	< 0.50	**22**	< 0.50	< 0.50	**2.0 B**
MW-32B	02/07/17	SPT	< 0.50	< 0.50	< 1.0	**0.49 J**	< 0.50	**68**	**2.0**	< 1.0	< 1.0	< 1.0	**21**	< 10	< 1.0	**2.1**
MW-32B_1.5S\	05/16/17	ORG	< 0.50	< 0.50	< 0.50	**0.91**	< 0.50	**98**	**3.2**	< 0.50	< 0.50	< 0.50	**33**	< 0.50	< 0.50	**3.98**
MW-32B	05/16/17	ORG	< 0.50	< 0.50	< 0.50	**0.95**	< 0.50	**120**	**3.4**	< 0.50	< 0.50	< 0.50	**36**	< 0.50	< 0.50	**3.80**
MW-32B_1.5S\	08/08/17	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**120**	**4.2**	< 0.50	< 0.50	< 0.50	**37**	< 0.50	< 0.50	**2.8**
MW-32B	08/08/17	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**130**	**4.3**	< 0.50	< 0.50	< 0.50	**41**	< 0.50	< 0.50	**4.0**
MW-32B_1.5S\	11/07/17	ORG	< 0.50	< 0.50	< 0.50	**0.32 J**	< 0.50	**40**	**1.1**	< 0.50	< 0.50	< 0.50	**11**	< 0.50	< 0.50	**0.30**
MW-32B	11/07/17	ORG	< 0.50	< 0.50	< 0.50	**0.64**	< 0.50	**64**	**2.3**	< 0.50	< 0.50	< 0.50	**24**	< 0.50	< 0.50	**1.60**
MW-32B_1.5S\	02/27/18	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**120**	**4.1**	< 0.50	< 0.50	< 0.50	**37**	< 0.50	< 0.50	**1.1**
MW-32B	02/27/18	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**130**	**3.6**	< 0.50	< 0.50	< 0.50	**41**	< 0.50	< 0.50	**1.4**
MW-3200B	02/27/18	FD	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**110**	**3.7**	< 0.50	< 0.50	< 0.50	**41**	< 0.50	< 0.50	**1.3**
MW-32B	02/27/18	SPT	< 0.50	< 0.50	< 1.0	**1.1**	< 0.50	**170**	**3.6**	< 1.0	< 1.0	< 1.0	**45**	< 10	< 1.0	**2.9**
MW-32B, 1.5 S'	05/10/18	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**93**	**3.5**	< 0.50	< 0.50	< 0.50	**34**	< 0.50	< 0.50	**1.4**
MW-32B	05/10/18	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**120**	**3.7**	< 0.50	< 0.50	< 0.50	**38**	< 0.50	< 0.50	**1.6**
MW-32B_1.5S\	08/22/18	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**160**	**4.6**	< 0.50	< 0.50	< 0.50	**51**	< 0.50	< 0.50	**2.7**
MW-32B	08/22/18	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**100**	**4.0**	< 0.50	< 0.50	< 0.50	**44**	< 0.50	**0.14 J**	**1.8**
MW-32B_1.5S\	11/07/18	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**130**	**4.5**	< 0.50	< 0.50	< 0.50	**53**	< 0.50	< 0.50	**5.2**
MW-32B	11/07/18	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**140**	**3.9**	< 0.50	< 0.50	< 0.50	**45**	< 0.50	< 0.50	**6.9**
MW-32B_1.5S\	02/14/19	ORG	< 0.50	< 0.50	< 0.50	**0.88**	< 0.50	**97**	**2.6**	< 0.50	< 0.50	< 0.50	**28**	< 0.50	< 0.50	< 2.0
MW-32B	02/14/19	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**140**	**3.2**	< 0.50	< 0.50	< 0.50	**33**	< 0.50	< 0.50	< 2.0
MW-3200B	02/14/19	FD	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**130**	**3.3**	< 0.50	< 0.50	< 0.50	**34**	< 0.50	< 0.50	< 2.0
MW-32B	02/14/19	SPT	< 1.0	< 0.50	< 1.0	**1.2**	< 0.50	**190**	**3.6**	< 1.0	< 1.0	< 1.0	**44**	< 10	< 1.0	**2.9**
MW-32B Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 1.4	< 0.50	16 - 180	1.9 - 5.9	< 0.50	< 0.50	< 0.50	20 - 75	< 0.50	< 0.50	< 2.0 - 6.9
MW-32C	01/05/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3200C	01/05/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1
MW-32C	01/05/10	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0
MW-32C	01/19/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32C	03/05/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32C	06/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32C	09/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32C	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32C	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	06/23/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**
MW-32C	08/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	11/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	02/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	05/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.56**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-32C	08/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	01/03/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	02/05/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	08/13/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	02/05/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	08/19/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	02/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	08/11/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	02/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	08/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	02/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	08/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	03/01/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	08/21/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	02/13/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 0.56	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - 1.0
MW-33	07/16/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.6**	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**1.4**	< 2.0
MW-3300	07/16/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**1.1**	< 2.0
MW-33	07/16/10	SPT	< 1	< 1	< 1	< 1	< 1	**4.0**	< 1	< 1	< 1	< 1	**1.0**	< 1	**1.0**	< 1
MW-33	07/30/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.4**	< 0.50	< 0.50	< 0.50	< 0.50	**0.55**	< 0.50	**0.61**	< 2.0
MW-33	09/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**	< 0.50	< 0.50	< 0.50	< 0.50	**0.69**	< 0.50	**0.65**	< 2.0
MW-3300	09/09/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.4**	< 0.50	< 0.50	< 0.50	< 0.50	**0.74**	< 0.50	**0.55**	< 2.0
MW-33	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 2.0
MW-3300	12/09/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 2.0
MW-33	03/28/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.0**	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.20
MW-33	06/22/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.4**	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.20
MW-33	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.7**	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.20
MW-33	11/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	< 0.50	< 0.20
MW-33	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33	05/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.83**	< 0.50	< 0.50	< 0.20
MW-33	08/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.74**	< 0.50	< 0.50	< 0.20
MW-33	11/06/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.6**	< 0.50	< 0.50	< 0.50	< 0.50	**0.79**	< 0.50	< 0.50	< 0.20
MW-33	01/04/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.5**	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.20
MW-33	02/06/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.0**	< 0.50	< 0.50	< 0.50	< 0.50	**0.92**	< 0.50	< 0.50	< 0.20
MW-33	05/15/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	< 0.50	< 0.50	< 0.50	**0.73**	< 0.50	< 0.50	< 0.20
MW-33	08/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50	< 0.20
MW-33	11/12/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.4**	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-33	02/05/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.5**	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.20
MW-3300	02/05/14	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.3**	< 0.50	< 0.50	< 0.50	< 0.50	**0.65**	< 0.50	< 0.50	< 0.20
MW-33	02/05/14	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**9.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0
MW-33	05/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33	08/21/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.4**	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.20
MW-33	11/05/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.20
MW-33	02/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	< 0.50	< 0.20
MW-33	05/13/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.20
MW-33	08/11/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.0**	< 0.50	< 0.50	< 0.50	< 0.50	**0.85**	< 0.50	< 0.50	< 0.20
MW-33	11/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.6**	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.20
MW-33	02/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.7**	< 0.50	< 0.50	< 0.50	< 0.50	**0.62**	< 0.50	< 0.50	< 0.20
MW-3300	02/03/16	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.72**	< 0.50	< 0.50	< 0.20
MW-33	02/03/16	SPT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**7.1**	< 1.0	< 1.0	< 1.0	< 1.0	**1.1**	< 1.0	< 1.0	< 1.0
MW-33_1SV	05/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33	05/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33_1SV	08/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.8**	< 0.50	< 0.50	< 0.50	< 0.50	**1.10**	< 0.50	< 0.50	< 0.20
MW-33	08/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.8**	< 0.50	< 0.50	< 0.50	< 0.50	**0.78**	< 0.50	< 0.50	< 0.20
MW-33_1SV	11/08/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33	11/08/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**	< 0.50	< 0.50	< 0.50	< 0.50	**0.69**	< 0.50	< 0.50	< 0.20
MW-33_1SV	02/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	< 0.50	< 0.20
MW-33	02/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.5**	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.20
MW-33_1.5SV	05/16/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-33	05/16/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-33_1.5SV	08/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.5**	< 0.50	< 0.50	< 0.50	< 0.50	**0.65**	< 0.50	< 0.50	< 0.20
MW-33	08/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**	< 0.50	< 0.50	< 0.50	< 0.50	**0.63**	< 0.50	< 0.50	< 0.20
MW-3300	08/08/17	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.20
MW-33	08/08/17	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**6.2**	< 1.0	< 1.0	< 1.0	< 1.0	**0.65 J**	< 10	< 1.0	< 1.0
MW-33_1.5SV	11/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.3**	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.20
MW-33	11/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.3**	< 0.50	< 0.50	< 0.50	< 0.50	**0.72**	< 0.50	< 0.50	< 0.20
MW-33_1.5SV	03/02/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33	03/02/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33_1.5SV	05/08/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33	05/08/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33_1.5SV	08/22/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33	08/22/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.4**	< 0.50	< 0.50	< 0.50	< 0.50	**0.19 J**	< 0.50	< 0.50	< 0.20
MW-33_1.5SV	11/07/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	< 0.50	**0.27 J**	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-33	11/07/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	**0.32 J**	< 0.50	< 0.50	**0.19 J**	< 0.50	< 0.50	< 0.20
MW-33_1.5SV	02/13/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33	02/13/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.7**	< 0.50	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	< 0.50	< 0.20
MW-33 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.7 - 12	< 0.50	< 0.50 - 0.32 J	< 0.50	< 0.50	< 0.50 - 2.0	< 0.50	< 0.50 - 1.4	< 0.20 - < 2.0
MW-34A	02/25/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	**1.7**	< 2.0
MW-3400A	02/25/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	**2.0**	< 2.0
MW-34A	02/25/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.0**	< 1
MW-34A	03/10/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	**1.4**	< 0.20
MW-34A	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	**2.8**	< 0.20
MW-34A	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	< 0.20
MW-34A	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.63**	**0.68**	< 0.20
MW-34A	11/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34A	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.75**	< 0.50	< 0.20
MW-34A	05/10/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.20
MW-34A	08/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	< 0.20
MW-34A	11/06/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34A	02/05/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	< 0.20
MW-34A	05/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.91**	< 0.50	< 0.20
MW-34A	08/13/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34A	02/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.20
MW-34A	08/19/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.20
MW-34A	02/05/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.20
MW-34A	08/11/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	< 0.20
MW-34A	02/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**2.3**	< 0.50	< 0.20
MW-34A	08/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	< 0.20
MW-34A	02/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**1.4**	< 0.50	< 0.20
MW-34A	08/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	**1.3 U**
MW-34A	03/01/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34A	08/23/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	< 0.20
MW-34A	02/12/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**0.96**	< 0.50	< 0.20
MW-34A Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 2.3	< 0.50 - 2.8	< 0.20 - < 2.0
MW-34B	02/25/11	ORG	< 1.0	< 1.0	< 1.0	**5.1**	< 1.0	**560**	< 1.0	< 1.0	< 1.0	**1.3**	**1.6**	< 1.0	< 1.0	**75**
MW-3400B	02/25/11	FD	< 1.0	< 1.0	< 1.0	**6.2**	< 1.0	**650**	< 1.0	**1.1**	< 1.0	**1.5**	**1.9**	< 1.0	< 1.0	**61**
MW-34B	02/25/11	SPT	< 1	< 1	< 1	**4.0**	< 1	**590**	< 1	< 1	< 1	**1.0**	**1.0**	< 1	< 1	**78**
MW-34B	03/10/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**4.1**
MW-3400B	03/10/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.7**	**4.3**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-34B	03/10/11	SPT	< 1	< 1	< 1	< 1	< 1	**12 E**	< 1	< 1	< 1	< 1	< 1	< 1	**2.0**	**6.0**
MW-34B-1 [c]	03/15/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**28 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	**4.9**
MW-34B-1 [c]	03/15/11	SPT	< 1	< 1	< 1	< 1	< 1	**18 E**	< 1	< 1	< 1	< 1	< 1	< 1	**1.0**	**7.0**
MW-34B-2 [d]	03/15/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	**NA**
MW-34B-3 [e]	03/15/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**30**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	**NA**
MW-34B-4 [f]	03/15/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.57**	**5.0**
MW-34B	03/29/11	ORG	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	**27 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	**9.4 E**
MW-3400B	03/29/11	FD	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	**37 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	**9.4 E**
MW-34B	03/29/11	SPT	< 1	< 1	< 1	< 1	< 1	**31 E**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**13 E**
MW-34B	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**21 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	**8.1**
MW-34B	06/21/11	SPT	< 1	< 1	< 1	< 1	< 1	**10 E**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**11**
MW-34B	08/04/11	ORG	< 0.50	< 0.50	< 0.50	**4.8**	**0.71**	**410**	< 0.50	< 0.50	< 0.50	**1.2**	**0.65**	< 0.50	**1.5**	**84 E**
MW-34B	11/02/11	ORG	< 0.50	< 0.50	**0.50**	**6.3**	**1.2**	**502**	< 0.50	< 0.50	< 0.50	**2.1**	**0.70**	< 0.50	< 0.50	**196**
MW-34B	11/02/11	SPT	< 1	< 1	< 1	**4.0**	< 1	**340**	< 1	< 1	**1.0**	< 1	< 1	< 1	< 1	**220**
MW-34B	02/08/12	ORG	< 2.5	< 2.5	< 2.5	**6.0**	< 2.5	**550 E**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**64 E**
MW-3400B	02/08/12	FD	< 2.5	< 2.5	< 2.5	**6.0**	< 2.5	**570 E**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**66 E**
MW-34B	02/08/12	SPT	< 1	< 1	< 1	**3.0**	< 1	**250 E**	< 1	< 1	< 1	**1.0**	< 1	< 1	< 1	**190 E**
MW-34B	05/10/12	ORG	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	**58**
MW-34B	05/10/12	SPT[E]	< 1	< 1	< 1	**1.0**	< 1	**120**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**63**
MW-34B	05/10/12	SPT[C]	< 0.50	< 0.50	< 1.0	**1.6**	< 0.50	**110**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**62**
MW-34B	08/10/12	ORG	< 5.0	< 5.0	< 5.0	**9.8**	< 5.0	**1,100**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**250**
MW-34B	11/07/12	ORG	< 1.0	< 1.0	< 1.0	**7.9**	**1.7**	**590 E**	< 1.0	< 1.0	< 1.0	**2.6**	**1.4**	< 1.0	< 1.0	**260**
MW-34B	11/07/12	SPT	< 0.50	< 0.50	< 1.0	**6.4**	**1.5**	**180 E**	< 1.0	< 1.0	< 1.0	**3.0**	**1.4**	< 10	< 1.0	**320**
MW-34B	01/03/13	ORG	< 1.0	< 1.0	< 1.0	**5.3**	**1.1**	**580**	< 1.0	< 1.0	< 1.0	**1.8**	< 1.0	< 1.0	< 1.0	**68**
MW-3400B	01/03/13	FD	< 1.0	< 1.0	< 1.0	**5.4**	**1.1**	**590**	< 1.0	< 1.0	< 1.0	**1.7**	< 1.0	< 1.0	< 1.0	**74**
MW-34B	02/06/13	ORG	< 1.0	< 1.0	< 1.0	**5.5**	**1.4**	**580**	< 1.0	< 1.0	< 1.0	**1.7**	< 1.0	< 1.0	< 1.0	**180**
MW-3400B	02/06/13	FD	< 1.0	< 1.0	< 1.0	**5.6**	**1.4**	**550**	< 1.0	< 1.0	< 1.0	**1.7**	< 1.0	< 1.0	< 1.0	**170**
MW-34B	02/06/13	SPT	< 0.50	< 0.50	< 1.0	**4.6**	**1.0**	**440**	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 10	< 1.0	**250**
MW-34B	05/14/13	ORG	< 0.50	< 0.50	< 0.50	**3.6**	**0.87**	**300**	< 0.50	< 0.50	< 0.50	**1.3**	**0.65**	< 0.50	< 0.50	**140**
MW-34B	08/13/13	ORG	< 1.0	< 1.0	< 1.0	**4.9**	**1.1**	**540**	< 1.0	< 1.0	< 1.0	**1.8**	**1.3**	< 1.0	< 1.0	**190**
MW-34B	11/13/13	ORG	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	**150**	< 0.50	< 0.50	< 0.50	**1.1**	**0.50**	< 0.50	< 0.50	**73**
MW-34B	02/06/14	ORG	< 0.50	< 0.50	< 0.50	**3.3**	**0.72**	**290**	< 0.50	< 0.50	< 0.50	**1.0**	**0.56**	< 0.50	< 0.50	**130**
MW-3400B	02/06/14	FD	< 0.50	< 0.50	< 0.50	**3.3**	**0.81**	**230**	< 0.50	< 0.50	< 0.50	**0.97**	**0.64**	< 0.50	< 0.50	**110**
MW-34B	02/06/14	SPT	< 1.0	< 1.0	< 2.0	**2.8**	< 1.0	**240**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 20	< 2.0	**120**
MW-34B	05/21/14	ORG	< 0.50	< 0.50	< 0.50	**3.6**	**0.90**	**290**	< 0.50	**0.54**	< 0.50	**1.7**	**0.66**	< 0.50	< 0.50	**110**
MW-34B	08/19/14	ORG	< 0.50	< 0.50	< 0.50	**2.4**	**0.66**	**200**	< 0.50	< 0.50	< 0.50	**1.3**	**0.72**	< 0.50	< 0.50	**99**
MW-34B	11/05/14	ORG	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**210**	< 0.50	< 0.50	< 0.50	**0.97**	**0.66**	< 0.50	< 0.50	**57**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-3400B	11/05/14	FD	< 0.50	< 0.50	< 0.50	**2.1**	**0.55**	**200**	< 0.50	< 0.50	< 0.50	**0.82**	**0.56**	< 0.50	< 0.50	**54**
MW-34B	11/05/14	SPT	< 0.50	< 0.50	< 1.0	**2.0**	< 0.50	**180**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**54**
MW-34B	02/05/15	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**79**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**
MW-34B	05/13/15	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**110**	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	< 0.50	**43**
MW-34B	08/11/15	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**36**	< 0.50	< 0.50	< 0.50	**0.72**	< 0.50	< 0.50	< 0.50	**48**
MW-34B	11/03/15	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**100**	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	< 0.50	< 0.50	**28**
MW-34B	02/04/16	ORG	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	**160**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**30**
MW-34B	05/03/16	ORG	< 0.50	< 0.50	< 0.50	**0.94**	< 0.50	**57**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**30**
MW-3400B	05/03/16	FD	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**73**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**24**
MW-34B	05/03/16	SPT	<1.0	<1.0	<1.0	<1.0	< 0.50	**80**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**27**
MW-34B	08/03/16	ORG	< 0.50	< 0.50	< 0.50	**0.96**	< 0.50	**73**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**
MW-34B	11/08/16	ORG	< 0.50	< 0.50	< 0.50	**0.98**	< 0.50	**90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**
MW-34B	02/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**30**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.2**
MW-34B	05/16/17	ORG	< 0.50	< 0.50	< 0.50	**0.41 J**	< 0.50	**27 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 E
MW-3400B	05/16/17	FD	< 0.50	< 0.50	< 0.50	**0.48 J**	< 0.50	**37 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 E
MW-34B	05/16/17	SPT	< 0.50	< 0.50	< 1.0	**0.39 J**	< 0.50	**26 E**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**9.5 E**
MW-34B	08/08/17	ORG	< 0.50	< 0.50	< 0.50	**0.59**	< 0.50	**46**	< 0.50	**0.27 J**	< 0.50	**0.22 J**	< 0.50	< 0.50	< 0.50	< 2.0 E
MW-3400B	08/08/17	FD	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	**48**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 E
MW-34B	08/08/17	SPT	< 0.50	< 0.50	< 1.0	**0.59 J**	< 0.50	**51**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**13 E**
MW-34B	11/07/17	ORG	< 0.50	< 0.50	**0.24 J**	**2.4**	**0.44 J**	**210 E**	< 0.50	**0.46 J**	< 0.50	**0.70**	**0.82**	< 0.50	< 0.50	**23 E**
MW-3400B	11/07/17	FD	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	**200 E**	< 0.50	**0.43 J**	< 0.50	**0.73**	**0.81**	< 0.50	< 0.50	**25 E**
MW-34B	11/07/17	SPT	< 0.50	< 0.50	< 1.0	**2.4**	**0.38 J**	**380 E**	< 1.0	**0.40 J**	< 1.0	< 1.0	**0.90 J**	< 10	< 1.0	**40 E**
MW-34B	03/01/18	ORG	< 0.50	< 0.50	< 0.50	**0.41 J**	< 0.50	**25**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 E
MW-3400B	03/01/18	FD	< 0.50	< 0.50	< 0.50	**0.33 J**	< 0.50	**31**	< 0.50	< 0.50	< 0.50	< 0.50	**0.21 J**	< 0.50	< 0.50	< 2.0 E
MW-34B	03/01/18	SPT	< 0.50	< 0.50	< 1.0	**0.37 J**	< 0.50	**30**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**5.7 E**
MW-34B	05/08/18	ORG	< 0.50	< 0.50	< 0.50	**0.45 J**	< 0.50	**35**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**
MW-3400B	05/08/18	FD	< 0.50	< 0.50	< 0.50	**0.54**	< 0.50	**30**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**
MW-34B	05/08/18	SPT	< 0.50	< 0.50	< 1.0	**0.57 J**	< 0.50	**48**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**11**
MW-34B	08/23/18	ORG	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	**41**	< 0.50	**0.21 J**	< 0.50	**0.25 J**	**0.16 J**	< 0.50	< 0.50	**11**
MW-3400B	08/23/18	FD	< 0.50	< 0.50	< 0.50	**0.48 J**	< 0.50	**39**	< 0.50	**0.19 J**	< 0.50	**0.22 J**	**0.20 J**	< 0.50	< 0.50	**15**
MW-34B	08/23/18	SPT	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	**37**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**8.2**
MW-34B	11/07/18	ORG	< 0.50	< 0.50	< 0.50	**0.43 J**	< 0.50	**35**	< 0.50	**0.21 J**	< 0.50	**0.20 J**	**0.19 J**	< 0.50	< 0.50	**17**
MW-34B	02/13/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**
MW-34B Historical Range* **			< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 0.50	< 0.50 - 9.8	< 0.50 - 1.4	20 E - 1,100	< 0.50 - < 5.0	< 0.50 - 1.1	< 0.50 - 1.0	< 0.50 - 2.6	< 0.50 - 2.1	< 0.50 - < 5.0	< 0.50 - 2.6	< 2.0 E - 196

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-34C	02/25/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	< 2.0
MW-3400C	02/25/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**	< 2.0
MW-34C	02/25/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-34C	03/10/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.0**	< 0.20
MW-34C	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	< 0.20
MW-34C	03/29/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**3**	< 1
MW-34C	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	< 0.20
MW-34C	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.6**	< 0.20
MW-34C	11/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	05/10/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	08/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	11/06/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	01/03/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	02/06/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	05/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	08/13/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	02/07/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	08/19/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	02/05/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	08/11/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	02/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	08/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	02/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	08/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	03/01/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	08/23/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	02/13/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 9.6	< 0.20 - < 2.0
MW-35A	01/19/11	ORG	< 0.50	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500A	01/19/11	FD	< 0.50	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35A	01/19/11	SPT	< 1	< 1	**50**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35A	02/03/11	ORG	< 0.50	< 0.50	**46 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500A	02/03/11	FD	< 0.50	< 0.50	**49 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35A	02/03/11	SPT	< 1	< 1	**33 E**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35A	03/28/11	ORG	< 0.50	< 0.50	**20**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-35A	06/22/11	ORG	< 0.50	< 0.50	**11**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	08/04/11	ORG	< 0.50	< 0.50	**14**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	11/01/11	ORG	< 0.50	< 0.50	**6.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	02/08/12	ORG	< 0.50	< 0.50	**4.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	05/09/12	ORG	< 0.50	< 0.50	**2.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	08/07/12	ORG	< 0.50	< 0.50	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	11/06/12	ORG	< 0.50	< 0.50	**0.72**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	02/06/13	ORG	< 0.50	< 0.50	**0.74**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	05/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	08/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	02/07/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	02/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	02/28/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A Historical Range* **			< 0.50	< 0.50	< 0.50 - 67	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - < 2.0
MW-35B	01/19/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500B	01/19/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35B	01/19/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35B	02/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500B	02/03/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35B	02/03/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35B	03/28/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	06/22/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	11/01/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	05/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	08/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	11/06/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	02/05/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	05/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	08/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	02/04/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	02/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	02/28/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - < 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-35C	01/19/11	ORG	< 0.50	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500C	01/19/11	FD	< 0.50	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35C	01/19/11	SPT	< 1	< 1	**87**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35C	02/03/11	ORG	< 0.50	< 0.50	**0.59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500C	02/03/11	FD	< 0.50	< 0.50	**0.67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35C	02/03/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35C	03/28/11	ORG	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-3500C	03/28/11	FD	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	06/22/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	11/01/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	05/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	08/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	11/06/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	02/06/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	05/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	08/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	11/12/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	02/04/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	05/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	08/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	11/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	02/04/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	05/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	08/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	11/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	02/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	05/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	08/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	11/08/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	02/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	05/16/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35C	08/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	11/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	02/28/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-35C	05/09/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	08/21/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	11/08/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	02/13/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C Historical Range* **			< 0.50	< 0.50	< 0.50 - 120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - < 2.0
MW-36	01/13/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**	< 0.20
MW-3600	01/13/12	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.0**	< 0.20
MW-36	01/13/12	SPT	< 1	< 1	< 1	< 1	< 1	**2.0**	< 1	< 1	< 1	< 1	< 1	< 1	**4.0**	< 1
MW-36	01/26/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.3**	< 0.20
MW-3600	01/26/12	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.5**	< 0.20
MW-36	01/26/12	SPT	< 1	< 1	< 1	< 1	< 1	**3.0**	< 1	< 1	< 1	< 1	< 1	< 1	**3.0**	< 1
MW-36	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	< 0.20
MW-3600	02/08/12	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**	< 0.20
MW-36	02/08/12	SPT	< 1	< 1	< 1	< 1	< 1	**2.0**	< 1	< 1	< 1	< 1	< 1	< 1	**3.0**	< 1
MW-36	05/10/12	ORG	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	**45**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	**2.8**
MW-36	08/10/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-3600	08/10/12	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-36	08/10/12	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**9.9 E**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	**1.2**	< 1.1
MW-36	11/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.88**	**1.4**
MW-3600	11/07/12	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.59**	**1.4**
MW-36	01/04/13	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**
MW-36	02/07/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**28**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**
MW-3600	02/07/13	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**
MW-36	05/14/13	ORG	< 0.50	< 0.50	< 0.50	**0.55**	< 0.50	**45**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**
MW-36	08/15/13	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.5**
MW-3600	08/15/13	FD	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.5**
MW-36	08/15/13	SPT	< 0.50	< 0.50	< 1.0	**1.2**	< 0.50	**110**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**9.4**
MW-36	11/13/13	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**71**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.2E**
MW-3600	11/13/13	FD	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**71**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.1E**
MW-36	11/13/13	SPT	< 0.50	< 0.50	< 1.0	**1.0**	< 0.50	**97**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**9.1E**
MW-36	02/06/14	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**92**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**
MW-3600	02/06/14	FD	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**89**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**
MW-36	02/06/14	SPT	< 0.50	< 0.50	< 1.0	**1.3**	< 0.50	**110**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**8.3**
MW-36	05/20/14	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**
MW-3600	05/20/14	FD	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**
MW-36	05/20/14	SPT	< 0.50	< 0.50	< 1.0	**1.2**	< 0.50	**130**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**11**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-36	08/20/14	ORG	< 0.50	< 0.50	< 0.50	**0.93**	< 0.50	**86**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.6**
MW-36	11/05/14	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.2**
MW-36	02/05/15	ORG	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**
MW-3600	02/05/15	FD	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**
MW-36	02/05/15	SPT	< 0.50	< 0.50	< 1.0	**1.4**	< 0.50	**130**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**12**
MW-36	05/12/15	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**15**
MW-36	08/12/15	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**8.7**
MW-3600	08/12/15	FD	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**8.7**
MW-36	08/12/15	SPT	< 0.50	< 0.50	<1.0	**1.0**	< 0.50	**120**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**13**
MW-36	11/03/15	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**92**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**5.6**
MW-36	02/02/16	ORG	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	**220**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 2.0
MW-36_1SV	05/03/16	ORG	< 0.50	< 0.50	< 0.50	**0.64**	< 0.50	**57**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**2.9**
MW-36	05/03/16	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**110**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**6.0**
MW-3600	05/03/16	FD	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**5.2**
MW-36	05/03/16	SPT	<1.0	<1.0	<1.0	<1.0	< 0.50	**130**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.3**
MW-36_1SV	08/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.20
MW-36	08/03/16	ORG	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	**66**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**2.6**
MW-3600	08/03/16	FD	< 0.50	< 0.50	< 0.50	**0.83**	< 0.50	**65**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**2.4**
MW-36	08/03/16	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**93**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**5.8**
MW-36_1SV	11/08/16	ORG	< 0.50	< 0.50	< 0.50	**0.79**	< 0.50	**77**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**3.3**
MW-36	11/08/16	ORG	< 0.50	< 0.50	< 0.50	**0.95**	< 0.50	**91**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**4.0**
MW-3600	11/08/16	FD	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**98**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**4.2**
MW-36	11/08/16	SPT	< 0.50	< 0.50	< 1.0	**0.77**	< 0.50	**91**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**6.4**
MW-36_1SV	02/08/17	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**150**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**8.2**
MW-36	02/08/17	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**150**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**8.8**
MW-3600	02/08/17	FD	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**150**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**8.3**
MW-36	02/08/17	SPT	< 0.50	< 0.50	< 1.0	**0.97 J**	< 0.50	**110**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**10**
MW-36_1.5SV	05/17/17	ORG	< 0.50	< 0.50	< 0.50	**0.82**	< 0.50	**80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 2.0
MW-36	05/17/17	ORG	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	**72**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 2.0
MW-36_1.5SV	11/07/17	ORG	< 0.50	< 0.50	< 0.50	**0.91**	< 0.50	**93**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	**7.7**
MW-36	11/07/17	ORG	< 0.50	< 0.50	< 0.50	**0.82**	< 0.50	**87**	< 0.50	< 0.50	< 0.50	**0.24 J**	< 0.50	< 0.50	<0.50	**7.5**
MW-36_1.5SV	03/05/18	ORG	< 0.50	< 0.50	< 0.50	**0.93**	< 0.50	**82**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-36	03/05/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**86**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-36_1.5SV	05/09/18	ORG	< 0.50	< 0.50	< 0.50	**0.87**	< 0.50	**82**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**
MW-36	05/09/18	ORG	< 0.50	< 0.50	< 0.50	**0.99**	< 0.50	**83**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.9**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-36_1.5SV	08/22/18	ORG	< 0.50	< 0.50	< 0.50	**0.64**	< 0.50	**58**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.7**
MW-36	08/22/18	ORG	< 0.50	< 0.50	< 0.50	**0.63**	< 0.50	**59**	< 0.50	< 0.50	< 0.50	**0.21 J**	< 0.50	< 0.50	< 0.50	**4.4**
MW-36_1.5SV	11/08/18	ORG	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**47**	< 0.50	< 0.50	< 0.50	**0.12 J**	< 0.50	< 0.50	< 0.50	**6.8**
MW-36	11/08/18	ORG	< 0.50	< 0.50	< 0.50	**0.54**	< 0.50	**52**	< 0.50	< 0.50	< 0.50	**0.14 J**	< 0.50	< 0.50	< 0.50	**7.3**
MW-36_1.5SV	02/12/19	ORG	< 0.50	< 0.50	< 0.50	**0.92**	< 0.50	**86**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**
MW-36	02/12/19	ORG	< 0.50	< 0.50	< 0.50	**0.89**	< 0.50	**85**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**
MW-36 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 1.9	< 0.50	2.9 - 220	< 0.50	< 0.50	< 0.50	< 0.50 - 0.24 J	< 0.50	< 0.50	<0.50 - 5.9	< 0.20 - 15
MW-37	10/26/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.73**	< 2.0
MW-3700	10/26/12	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 2.0
MW-37	10/26/12	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	**1.4**	< 1.0
MW-37	11/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-3700	11/07/12	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	11/07/12	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0
MW-37	01/03/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.66**	< 0.50	< 0.50	< 0.20
MW-37	01/03/13	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0
MW-37	02/06/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	02/06/13	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0
MW-37	05/15/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-3700	05/15/13	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	05/15/13	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0
MW-37	08/14/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	11/12/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	02/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	05/21/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	11/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	02/04/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	05/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	08/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	11/04/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	02/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	05/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	08/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	11/09/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	02/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-37	05/16/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-37	08/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	03/05/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37	02/13/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-37 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 0.66	< 0.50	<0.50 - 0.73	< 0.20 - < 2.0
MW-38	08/07/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-3800	08/07/13	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	08/07/13	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0
MW-38	08/16/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	11/12/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	02/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	05/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	11/05/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	02/04/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	05/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	08/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	11/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.34**
MW-38	02/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	05/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	08/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	11/08/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	02/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	08/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38	03/05/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-38 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20 - 0.34
MW-39	08/08/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-3900	08/08/13	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-39	08/08/13	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0
MW-39	08/16/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.69**	< 0.20
MW-39	11/12/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.83**	< 0.20
MW-39	02/04/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.59**	< 0.20
MW-39	05/21/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.20
MW-39	08/20/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.99**	< 0.20
MW-39	11/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.64**	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-39	02/04/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-39	05/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.77**	< 0.20
MW-39	08/12/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.20
MW-39	11/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.71**	< 0.20
MW-39	02/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.59**	< 0.20
MW-39	05/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.20
MW-39	08/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-3900	08/03/16	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-39	08/03/16	SPT	< 0.50	< 0.50	<1.0	<1.0	< 0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 10	<1.0	< 1.0
MW-39	11/08/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.66**	< 0.20
MW-39	02/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-39	05/17/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-39	08/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-39	11/07/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-39	03/02/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-39	05/09/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-39	08/21/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-39	11/08/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-39	02/12/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-39 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 1.4	< 0.20 - < 2.0
MW-40	07/18/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-4000	07/18/13	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	07/18/13	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0
MW-40	08/16/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	11/12/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	02/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	05/21/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	08/21/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	11/06/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	02/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	05/13/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	08/13/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	11/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-40	02/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	05/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	08/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-4000	08/04/16	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	08/04/16	SPT	< 0.50	< 0.50	<1.0	<1.0	< 0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 10	<1.0	< 1.0
MW-40	11/08/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	02/09/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	05/17/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-40	08/10/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	11/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	03/01/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	05/10/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	08/23/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40	11/08/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-40 Historical Range* **			< 0.50	< 0.50	< 0.50 - 0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - < 2.0
MW-41-420	08/19/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.49**
MW-4100-420	08/19/14	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.51**
MW-41-420	08/19/14	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**2.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**1.3**
MW-41	09/10/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.49**
MW-4100	09/10/14	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.42**
MW-41	09/10/14	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**1.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0
MW-41	09/24/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-4100	09/24/14	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-41	09/24/14	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0
MW-41	11/05/14	ORG	< 0.50	< 0.50	**0.72**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-41	02/05/15	ORG	< 0.50	< 0.50	**0.64**	**1.1**	< 0.50	**110**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**
MW-41	05/12/15	ORG	< 0.50	< 0.50	**0.56**	< 0.50	< 0.50	**5.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**
MW-4100	05/12/15	FD	< 0.50	< 0.50	**0.55**	< 0.50	< 0.50	**2.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**
MW-41	05/12/15	SPT	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	**4.7**
MW-41	08/13/15	ORG	< 0.50	< 0.50	**0.71**	< 0.50	< 0.50	**0.61**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
MW-41	11/03/15	ORG	< 0.50	< 0.50	**0.66**	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
MW-41	02/04/16	ORG	< 0.50	< 0.50	**0.86**	**0.71**	< 0.50	**64**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**
MW-4100	02/04/16	FD	< 0.50	< 0.50	**0.83**	**0.65**	< 0.50	**60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**
MW-41	02/04/16	SPT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**40**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**7.4**
MW-41	05/03/16	ORG	< 0.50	< 0.50	**0.72**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
MW-41	08/03/16	ORG	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-41	11/09/16	ORG	< 0.50	< 0.50	**0.72**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
MW-41	02/08/17	ORG	< 0.50	< 0.50	**0.60**	**1.3**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**
MW-41	05/17/17	ORG	< 0.50	< 0.50	< 0.50	**0.61**	< 0.50	**41**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-41	08/10/17	ORG	< 0.50	< 0.50	**0.61**	< 0.50	< 0.50	**7.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.57**
MW-41	11/07/17	ORG	< 0.50	< 0.50	**0.52**	**1.2**	< 0.50	**120**	< 0.50	**0.20 J**	< 0.50	**0.39 J**	< 0.50	< 0.50	< 0.50	**18**
MW-41	03/02/18	ORG	< 0.50	< 0.50	**0.57**	**0.63**	< 0.50	**71**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.7**
MW-41	05/10/18	ORG	< 0.50	< 0.50	**0.73**	**0.28 J**	< 0.50	**30**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**
MW-41	08/22/18	ORG	< 0.50	< 0.50	**0.52**	**0.41 J**	< 0.50	**39**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.5**
MW-41	11/08/18	ORG	< 0.50	< 0.50	**0.43 J**	**0.21 J**	< 0.50	**21**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.7**
MW-41	02/14/19	ORG	< 0.50	< 0.50	**0.51**	< 0.50	< 0.50	**14**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**
MW-41 Historical Range* **			< 0.50	< 0.50	< 0.50 - 0.86	< 0.50 - 1.3	< 0.50	< 0.50 - 130	< 0.50	< 0.50 - 0.20 J	< 0.50	< 0.50 - 0.39 J	< 0.50 - 110	< 0.50	< 0.50	< 0.20 - 18
EW-01	06/22/05	ORG	< 0.50	< 0.50	**0.67**	**10**	**2.6**	**750**	< 0.50	**2.5**	< 0.50	**6.5**	**2.1**	< 0.50	< 0.50	**140 E**
EW-100	06/22/05	FD	< 0.50	< 0.50	**0.65**	**11**	**2.6**	**740**	< 0.50	**2.5**	< 0.50	**6.8**	**2.2**	< 0.50	< 0.50	**150 E**
EW-01	06/22/05	SPT	< 1.0	< 1.0	< 1.0	**10**	**2.5**	**600**	< 1.0	**2.2**	< 1.0	**6.3**	**1.9**	< 1.0	< 1.0	**600 E**
EW-01	09/22/05	ORG	< 0.50	< 0.50	< 0.50	**3.0**	< 0.50	**210 E**	< 0.50	**0.59**	< 0.50	**1.5**	**0.58**	< 0.50	< 0.50	**25 E**
EW-100	09/22/05	FD	< 0.50	< 0.50	< 0.50	**3.1**	< 0.50	**77 E**	< 0.50	**0.53**	< 0.50	**1.5**	**0.53**	< 0.50	< 0.50	**24 E**
EW-01	09/22/05	SPT	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**120 E**	< 0.50	**0.5**	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	**73 E**
EW-01	12/19/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**
EW-100	12/19/05	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.74**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.5**
EW-01	03/22/06	ORG	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	**83**
EW-100	03/22/06	FD	< 0.50	< 0.50	< 0.50	**2.0**	**0.90**	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	**78**
EW-01	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**
EW-100	06/21/06	FD	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	**5.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**
EW-01	12/11/06	ORG	**2.0**	< 0.50	< 0.50	**1.6**	< 0.50	**4.3 E**	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	**42**
EW-01	12/11/06	SPT	**2.0**	< 0.50	< 0.50	**1.0**	< 0.50	**68 E**	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	**0.50 U**	**48**
EW-01	03/14/07	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**33**
EW-100	03/14/07	FD	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**90**	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	< 0.50	< 0.50	**30**
EW-01	06/22/07	ORG	< 0.50	< 0.50	**0.57**	< 0.50	< 0.50	**24**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**
EW-01	09/27/07	ORG	< 0.50	< 0.50	< 0.50	**3.8**	**0.90**	< 0.50	< 0.50	**0.73**	< 0.50	**2.1**	**0.56**	< 0.50	< 0.50	**110**
EW-01	12/13/07	ORG	< 0.50	**0.53**	**1.2**	**16**	**4.0**	**820**	**0.52**	**3.3**	< 0.50	**10**	**2.8**	< 0.50	< 0.50	**660**
EW-100	12/13/07	FD	< 0.50	**0.55**	**1.1**	**16**	**4.2**	**710**	< 0.50	**3.4**	< 0.50	**9.7**	**2.7**	< 0.50	< 0.50	**650**
EW-01	12/13/07	SPT	< 0.50	< 0.50	**1.0**	**14**	**3.0**	**740**	< 0.50	**3.0**	< 0.50	**8.7**	**3.0**	< 0.50	< 0.50	**770**
EW-01	06/25/08	ORG	< 0.50	< 0.50	**0.61**	**9.5**	**2.2**	**1,600 E**	< 0.50	**2.6**	< 0.50	**5.7**	**2.0**	< 0.50	**4.6**	**710**
EW-100	06/25/08	FD	< 1.0	< 1.0	< 1.0	**8.8**	**2.2**	**840 E**	**1.1**	**2.6**	< 1.0	**5.7**	**1.8**	< 1.0	**2.8**	**800**
EW-01	06/25/08	SPT	< 5.0	< 5.0	< 5.0	**8.0**	< 5.0	**620 E**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**530**
EW-01	07/08/08	ORG	< 2.5	< 2.5	< 2.5	**8.5**	< 2.5	**720**	< 2.5	**2.6**	< 2.5	**5.5**	< 2.5	< 2.5	< 2.5	**490**
EW-01	07/09/08	ORG	< 0.50	< 0.50	**0.76**	**9.2**	**1.9**	**820**	< 0.50	**2.2**	< 0.50	**5.0**	**1.9**	< 0.50	< 0.50	**410**
EW-01	07/10/08	ORG	< 0.50	< 0.50	< 0.50	**6.1**	**1.5**	**580**	< 0.50	**2.1**	< 0.50	**3.2**	**1.3**	< 0.50	< 0.50	**340**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
EW-01	07/15/08	ORG	< 1.0	< 1.0	< 1.0	**7.0**	**1.8**	**630**	< 1.0	**2.3**	< 1.0	**4.6**	**1.4**	< 1.0	< 1.0	**350**
EW-01	07/16/08	ORG	< 1.0	< 1.0	< 1.0	**7.2**	**1.7**	**1,000**	< 1.0	**1.8**	< 1.0	**3.9**	**1.9**	< 1.0	< 1.0	**320**
EW-01	07/23/08	ORG	< 1.0	< 1.0	< 1.0	**5.2**	**1.2**	**520**	< 1.0	**2.3**	< 1.0	**2.6**	**1.2**	< 1.0	< 1.0	**190**
EW-01	07/30/08	ORG	< 1.0	< 1.0	< 1.0	**5.5**	**1.1**	**360**	< 1.0	**1.2**	< 1.0	**2.6**	**1.0**	< 1.0	< 1.0	**200**
EW-01	08/06/08	ORG	< 1.0	< 1.0	< 1.0	**4.2**	< 1.0	**340**	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	< 1.0	**190**
EW-01	08/25/08	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.62**	**230**	< 0.50	**0.84**	< 0.50	**1.5**	**0.65**	< 0.50	< 0.50	**130**
EW-01	09/24/08	ORG	< 0.50	< 0.50	< 0.50	**2.4**	**0.57**	**180**	< 0.50	**0.94**	< 0.50	**1.2**	**1.3**	< 0.50	< 0.50	**74**
EW-01	10/22/08	ORG	< 0.50	< 0.50	< 0.50	**2.7**	**0.5**	**200**	< 0.50	**0.66**	< 0.50	**1.2**	**0.54**	< 0.50	< 0.50	**120**
EW-01	11/26/08	ORG	< 0.50	< 0.50	< 0.50	**2.9**	**0.65**	**190**	< 0.50	**0.63**	< 0.50	**1.5**	**0.51**	< 0.50	< 0.50	**110**
EW-01	02/25/09	ORG	< 0.50	< 0.50	< 0.50	**4.8**	**0.93**	**360**	< 0.50	< 0.50	< 0.50	**3.0**	**1.0**	< 0.50	< 0.50	**160**
EW-01	03/18/09	ORG	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	**160**	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	**70**
EW-01	04/29/09	ORG	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**150**	< 0.50	**0.60**	< 0.50	**0.86**	< 0.50	< 0.50	< 0.50	**80**
EW-01	05/27/09	ORG	< 0.50	< 0.50	< 0.50	**3.4**	**0.76**	**320**	< 0.50	**0.79**	< 0.50	**1.5**	**0.90**	< 0.50	< 0.50	**150**
EW-01	06/29/09	ORG	< 0.50	< 0.50	< 0.50	**2.2**	**0.53**	**200**	< 0.50	**0.76**	< 0.50	**1.2**	**0.58**	< 0.50	< 0.50	**120**
EW-01	07/22/09	ORG	< 0.50	< 0.50	< 0.50	**3.2**	**0.64**	**260**	< 0.50	**0.66**	< 0.50	**1.3**	**0.62**	< 0.50	< 0.50	**120**
EW-01	08/14/09	ORG	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**190**	< 0.50	< 0.50	< 0.50	**0.98**	< 0.50	< 0.50	< 0.50	**81**
EW-01	09/11/09	ORG	< 0.50	< 0.50	< 0.50	**3.1**	**0.70**	**280**	< 0.50	**0.66**	< 0.50	**1.3**	**0.60**	< 0.50	< 0.50	**120**
EW-01	10/08/09	ORG	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**150**	< 0.50	< 0.50	< 0.50	**0.92**	< 0.50	< 0.50	< 0.50	**87**
EW-01	12/09/09	ORG	< 0.50	< 0.50	**0.65**	**9.2**	**2.1**	**720**	< 0.50	**2.0**	< 0.50	**5.1**	**1.7**	< 0.50	< 0.50	**490**
EW-01	03/05/10	ORG	< 1.0	< 1.0	< 1.0	**6.7**	**1.6**	**500**	< 1.0	**1.9**	< 1.0	**3.2**	**1.6**	< 1.0	< 1.0	**370**
EW-01	06/11/10	ORG	< 1.0	< 1.0	< 1.0	**9.7**	**1.9**	**720**	< 1.0	**1.9**	< 1.0	**4.7**	**1.6**	< 1.0	< 1.0	**400**
EW-01	09/08/10	ORG	< 1.0	< 1.0	< 1.0	**10**	**2.4**	**720**	< 1.0	**2.0**	< 1.0	**4.7**	**2.0**	< 1.0	< 1.0	**370**
EW-01	12/07/10	ORG	< 1.0	< 1.0	< 1.0	**7.5**	**1.4**	**600 E**	< 1.0	**1.4**	< 1.0	**2.7**	**1.2**	< 1.0	< 1.0	**220**
EW-01	12/07/10	SPT	< 5	< 5	< 5	< 5	< 5	**340 E**	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**290**
EW-01	03/24/11	ORG	< 0.50	< 0.50	< 0.50	**2.6**	**0.59**	**200**	< 0.50	**0.82**	< 0.50	**1.3**	**0.54**	< 0.50	< 0.50	**64**
EW-01	06/23/11	ORG	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	**180**	< 0.50	**0.50**	< 0.50	**0.83**	**0.52**	< 0.50	< 0.50	**59**
EW-100	06/23/11	FD	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**180**	< 0.50	< 0.50	< 0.50	**0.96**	< 0.50	< 0.50	< 0.50	**68**
EW-01	08/02/11	ORG	< 0.50	< 0.50	< 0.50	**3.1**	**0.61**	**370**	< 0.50	**0.67**	< 0.50	**1.4**	**0.55**	< 0.50	< 0.50	**80 E**
EW-01	11/01/11	ORG	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**82**	< 0.50	< 0.50	< 0.50	**0.64**	< 0.50	< 0.50	< 0.50	**54**
EW-01	02/06/12	ORG	< 0.50	< 0.50	< 0.50	**0.85**	< 0.50	**59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**
EW-01	05/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	< 0.50	**0.78**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.0**
EW-01	08/06/12	ORG	**1.0**	< 0.50	< 0.50	**1.2**	< 0.50	**94**	< 0.50	< 0.50	< 0.50	**0.56**	< 0.50	< 0.50	< 0.50	**42 E**
EW-0100	08/06/12	FD	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**99**	< 0.50	< 0.50	< 0.50	**0.55**	< 0.50	< 0.50	< 0.50	**44 E**
EW-01	08/06/12	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**64**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**65 E**
EW-01	11/05/12	ORG	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	**190**	< 0.50	< 0.50	< 0.50	**0.75**	< 0.50	< 0.50	< 0.50	**83**
EW-01	02/04/13	ORG	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	**0.67**	< 0.50	< 0.50	< 0.50	**58**
EW-01	05/13/13	ORG	< 0.50	< 0.50	< 0.50	**0.78**	< 0.50	**57**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	**41**
EW-01	08/12/13	ORG	< 0.50	< 0.50	< 0.50	**2.9**	**0.56**	**220**	< 0.50	**0.76**	< 0.50	**0.85**	< 0.50	< 0.50	< 0.50	**81**
EW-01	11/11/13	ORG	< 0.50	< 0.50	< 0.50	**2.8**	< 0.50	**160**	< 0.50	**0.55**	< 0.50	**1.3**	**0.54**	< 0.50	< 0.50	**130**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
EW-01	02/03/14	ORG	< 0.50	< 0.50	< 0.50	**3.5**	**1.1**	**190**	< 0.50	**1.1**	< 0.50	**1.4**	**0.81**	< 0.50	< 0.50	**140**
EW-01	05/20/14	ORG	< 0.50	< 0.50	**0.65**	**7.5**	**2.1**	**500**	< 0.50	**1.6**	< 0.50	**3.7**	**1.2**	**0.61**	< 0.50	**380**
EW-01	08/18/14	ORG	< 2.5	< 2.5	< 2.5	**14**	**4.0**	**950**	< 2.5	**3.8**	< 2.5	**8.4**	**3.1**	< 2.5	< 2.5	**970**
EW-01	11/04/14	ORG	< 2.0	< 2.0	< 2.0	**16**	**4.0**	**960**	< 2.0	**4.3**	< 2.0	**9.0**	**3.3**	< 2.0	< 2.0	**990 E**
EW-0100	11/04/14	FD	< 2.0	< 2.0	< 2.0	**16**	**4.2**	**1,000**	< 2.0	**3.6**	< 2.0	**9.0**	**3.0**	< 2.0	< 2.0	**920 E**
EW-01	11/04/14	SPT	< 0.50	**0.57**	**1.2**	**16**	**3.6**	**720**	< 1.0	**2.3**	< 1.0	**8.8**	**2.7**	< 10	< 1.0	**1,800 E**
EW-01	02/02/15	ORG	< 1.0	< 1.0	< 1.0	**11**	**2.4**	**610**	< 1.0	**2.8**	< 1.0	**5.7**	**2.3**	< 1.0	< 1.0	**340**
EW-0100	02/02/15	FD	< 1.0	< 1.0	< 1.0	**11**	**2.4**	**670**	< 1.0	**2.8**	< 1.0	**5.4**	**2.3**	< 1.0	< 1.0	**350**
EW-01	02/02/15	SPT	< 2.5	< 2.5	< 5.0	**8.6**	< 2.5	**470**	< 5.0	< 5.0	< 5.0	**5.8**	< 5.0	< 50	< 5.0	**360**
EW-01	05/11/15	ORG	< 0.50	< 0.50	< 0.50	**2.8**	**0.73**	**240**	< 0.50	**0.83**	<2.0	**1.6**	**0.67**	<2.0	<2.0	**180**
EW-01	08/10/15	ORG	< 0.50	< 0.50	< 0.50	**7.0**	**1.7**	**560**	< 0.50	**1.7**	<2.0	**3.6**	**1.5**	<2.0	<2.0	**300**
EW-01	11/02/15	ORG	<1.0	<1.0	<1.0	**7.4**	**1.6**	**400**	<1.0	**1.1**	<1.0	**4.2**	**2.1**	<1.0	<1.0	**240**
EW-01	05/02/16	ORG	< 0.50	< 0.50	< 0.50	**3.3**	**0.61**	**250**	< 0.50	**0.78**	< 0.50	**1.5**	< 0.50	< 0.50	< 0.50	**73**
EW-01	08/01/16	ORG	< 0.50	< 0.50	< 0.50	**5.6**	< 0.50	**430**	< 0.50	< 0.50	< 0.50	**1.7**	**0.76**	**0.60**	< 0.50	**90**
EW-01	11/07/16	ORG	< 0.50	< 0.50	< 0.50	**4.5**	**0.70**	**300**	< 0.50	**0.69**	< 0.50	**1.7**	**0.77**	< 0.50	< 0.50	**110**
EW-01	11/07/16	FD	< 0.50	< 0.50	< 0.50	**4.5**	**0.72**	**270**	< 0.50	**0.64**	< 0.50	**1.8**	**0.70**	< 0.50	< 0.50	**100**
EW-01	02/06/17	SPT	< 0.50	< 0.50	< 1.0	**3.9**	**0.60**	**290**	< 1.0	**0.79**	< 1.0	**1.6**	**0.84**	< 1.0	< 1.0	**160**
EW-01	02/06/17	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**75**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**36**
EW-0100	02/06/17	FD	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**
EW-01	02/06/17	SPT	< 0.50	< 0.50	< 1.0	**0.84 J**	< 0.50	**64**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	**46**
EW-01	05/15/17	ORG	< 0.50	< 0.50	**0.23 J**	**2.0**	**0.50**	**120**	< 0.50	**0.55**	< 0.50	**1.1**	**0.49 J**	< 0.50	< 0.50	**110**
EW-0100	05/15/17	FD	< 0.50	< 0.50	**0.24 J**	**1.9**	**0.49 J**	**110**	< 0.50	**0.56**	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	**110**
EW-01	05/15/17	SPT	< 0.50	< 0.50	< 1.0	**2.0**	**0.42 J**	**160**	< 1.0	**0.57 J**	< 1.0	**1.0**	**0.41 J**	< 10	< 1.0	**130**
EW-01	08/07/17	ORG	< 0.50	< 0.50	**0.23 J**	**2.2**	**0.23 J**	**110**	< 0.50	**0.48 J**	< 0.50	**0.67**	< 0.50	< 0.50	< 0.50	**43 E**
EW-0100	08/07/17	FD	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**120**	< 0.50	**0.44 J**	< 0.50	**0.72**	< 0.50	< 0.50	< 0.50	**40 E**
EW-01	08/07/17	SPT	< 0.50	< 0.50	< 1.0	**2.2**	**0.42 J**	**130**	< 1.0	< 1.0	< 1.0	**0.74 J**	**0.44 J**	< 10	< 1.0	**64 E**
EW-01	11/06/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-01	03/19/18	ORG	< 0.50	< 0.50	**0.25 J**	< 0.50	< 0.50	**40**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**
EW-01	05/08/18	ORG	< 0.50	< 0.50	< 0.50	**0.64**	< 0.50	**47**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23**
EW-01	08/24/18	ORG	< 0.50	< 0.50	**0.19 J**	**1.2**	< 0.50	**85**	< 0.50	**0.27 J**	< 0.50	**0.50**	< 0.50	< 0.50	**0.25 J**	**41**
EW-01	11/06/18	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**81**	< 0.50	< 0.50	< 0.50	< 0.50	**0.39 J**	< 0.50	< 0.50	**55**
EW-01	02/13/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**
EW-01 Historical Range* **			< 0.50 - 2.0	< 0.50 - 0.55	< 0.50 - 1.2	< 0.50 - 16	< 0.50 - 4.0	< 0.50 - 1,600 E	< 0.50 - 0.52	< 0.50 - 4.3	< 0.50 - < 2.5	< 0.50 - 10	< 0.50 - 3.3	< 0.50 - 0.61	< 0.50 - 4.6	< 2.0 - 990 E
EW-02	10/30/09	ORG	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	**52**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.85**	**24**
EW-200	10/30/09	FD	< 0.50	< 0.50	< 0.50	**0.73**	< 0.50	**55**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.78**	**23**
EW-02	03/22/10	ORG	< 0.50	< 0.50	< 0.50	**0.92**	< 0.50	**82**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**
EW-02	03/23/10	ORG	< 0.50	< 0.50	< 0.50	**0.94**	< 0.50	**82**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**24**
EW-02	03/24/10	ORG	< 0.50	< 0.50	< 0.50	**0.85**	< 0.50	**74**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
EW-02	03/25/10	ORG	< 0.50	< 0.50	< 0.50	**0.79**	< 0.50	**70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**
EW-02	03/26/10	ORG	< 0.50	< 0.50	< 0.50	**0.83**	< 0.50	**76**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**
EW-02	04/01/10	ORG	< 0.50	< 0.50	< 0.50	**0.88**	< 0.50	**81**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**
EW-02	04/09/10	ORG	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	**85**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31**
EW-02	04/13/10	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	**0.59**	< 0.50	< 0.50	< 0.50	**43**
EW-02	04/23/10	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**91**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**35**
EW-02	05/25/10	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**100**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**38**
EW-02	06/10/10	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 5.0	**40**
EW-02	07/08/10	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**160**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**48**
EW-02	08/02/10	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**150**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**42**
EW-02	09/02/10	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**160**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**42**
EW-02	10/07/10	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**39**
EW-02	11/11/10	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**33**
EW-02	12/07/10	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**
EW-02	01/13/11	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**99**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**
EW-02	02/03/11	ORG	< 0.50	< 0.50	< 0.50	**0.88**	< 0.50	**83**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**
EW-02	03/02/11	ORG	< 0.50	< 0.50	< 0.50	**0.71**	< 0.50	**77**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**
EW-02	04/01/11	ORG	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	**82**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**
EW-02	05/04/11	ORG	< 0.50	< 0.50	< 0.50	**0.79**	< 0.50	**83**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**
EW-02	06/07/11	ORG	< 0.50	< 0.50	< 0.50	**0.65**	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**
EW-02	07/02/11	ORG	< 0.50	< 0.50	< 0.50	**0.73**	< 0.50	**87**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**
EW-02	08/01/11	ORG	< 0.50	< 0.50	< 0.50	**0.91**	< 0.50	**75**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**21**
EW-02	09/09/11	ORG	< 0.50	< 0.50	< 0.50	**0.82**	< 0.50	**90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**
EW-02	10/17/11	ORG	< 0.50	< 0.50	< 0.50	**0.62**	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**
EW-02	11/01/11	ORG	< 0.50	< 0.50	< 0.50	**0.69**	< 0.50	**55**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**
EW-02	12/07/11	ORG	< 0.50	< 0.50	< 0.50	**0.62**	< 0.50	**62**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**
EW-02	01/06/12	ORG	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	**85**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**
EW-02	02/08/12	ORG	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	**54**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.4**
EW-02	03/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**
EW-02	04/16/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**45**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**
EW-02	05/01/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**37**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**
EW-02	06/08/12	ORG	< 0.50	< 0.50	< 0.50	**0.62**	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**
EW-02	07/11/12	ORG	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	**64**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**
EW-02	08/03/12	ORG	< 0.50	< 0.50	< 0.50	**0.55**	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**
EW-02	09/06/12	ORG	< 0.50	< 0.50	< 0.50	**0.58**	< 0.50	**62**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**
EW-02	10/15/12	ORG	< 0.50	< 0.50	< 0.50	**0.74**	< 0.50	**75**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**
EW-02	11/05/12	ORG	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	**63**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**
EW-02	12/10/12	ORG	< 0.50	< 0.50	< 0.50	**0.68**	< 0.50	**72**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**
EW-02	01/04/13	ORG	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	**63**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**
EW-02	02/09/13	ORG	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	**39**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**
EW-02	09/06/12	ORG	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	**50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
EW-02	04/15/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**
EW-02	05/07/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**46**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**
EW-02	06/13/13	ORG	< 0.50	< 0.50	< 0.50	**0.64**	< 0.50	**54**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**
EW-02	07/02/13	ORG	< 0.50	< 0.50	< 0.50	**0.72**	< 0.50	**64**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**
EW-02	08/10/13	ORG	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	**80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**24**
EW-02	09/03/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.7**
EW-02	10/05/13	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**75**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31**
EW-02	11/01/13	ORG	< 0.50	< 0.50	< 0.50	**0.64**	< 0.50	**54**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**28**
EW-02	12/11/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**49**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**
EW-02	01/17/14	ORG	< 0.50	< 0.50	< 0.50	**0.55**	< 0.50	**34**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**21**
EW-02	02/11/14	ORG	< 0.50	< 0.50	< 0.50	**0.63**	< 0.50	**49**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**
EW-02	03/04/14	ORG	< 0.50	< 0.50	< 0.50	**0.59**	< 0.50	**57**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**41**
EW-02	08/18/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**
EW-02	11/03/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.3**
EW-02	02/15/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.8**
EW-02	03/06/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.2**
EW-02	04/02/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**30**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**
EW-02	05/01/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**42**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**
EW-02	06/05/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**48**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**
EW-02	07/14/15	ORG	< 0.50	< 0.50	< 0.50	**0.58**	< 0.50	**59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**
EW-02	08/06/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**48**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**
EW-02	09/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**53**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**
EW-02	10/06/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**40**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**
EW-02	11/05/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**38**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**
EW-02	12/03/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**45**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**
EW-02	12/11/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**53**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**
EW-02	01/07/16	ORG	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**49**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**
EW-02	01/21/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**43**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**
EW-02	02/01/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**48**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**
EW-02	03/03/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**34**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**
EW-02	04/05/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**35**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.2**
EW-02	05/05/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**36**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**
EW-02	06/01/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**
EW-02	06/16/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**36**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.6**
EW-02	07/07/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**30**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.3**
EW-02	07/21/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**38**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.4**
EW-02	08/04/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.5**
EW-02	08/18/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.6**
EW-02	09/08/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.1**
EW-02	09/15/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.2**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
EW-02	10/06/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.6**
EW-02	10/20/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.8**
EW-02	11/01/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**37**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**73 U**
EW-02	11/1716	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.0**
EW-02	12/01/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.2**
EW-02	12/16/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**85 U**
EW-02	01/06/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.5**
EW-02	01/26/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.5**
EW-02	02/03/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.5**
EW-02	02/16/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.1**
EW-02	03/02/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.0**
EW-02	03/16/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	04/06/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**
EW-02	04/20/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	05/04/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**95 U**
EW-02	05/18/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	06/01/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	06/15/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**
EW-02	07/06/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**
EW-02	07/20/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.6**
EW-02	08/03/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	08/17/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	09/01/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.4**
EW-02	09/14/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	10/19/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	10/06/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	11/06/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	11/20/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	12/04/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	12/14/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	01/04/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	01/18/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	02/01/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	02/15/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.7**
EW-02	03/15/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	03/29/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	04/05/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**
EW-02	04/19/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	05/03/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	05/17/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	06/07/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	06/21/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.1**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
EW-02	07/05/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	07/19/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	08/02/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.8**
EW-02	08/16/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	09/11/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	09/20/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.0**
EW-02	10/05/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.0**
EW-02	10/18/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.3**
EW-02	11/01/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.5**
EW-02	11/15/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.4**
EW-02	12/04/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**
EW-02	12/19/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.5**
EW-02	01/03/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	01/24/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	02/07/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02	02/21/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
EW-02 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 1.5	< 0.50	2.3 - 160	< 0.50	< 0.50	< 0.50	< 0.50 - 0.59	< 0.50	< 0.50	< 0.50 - 0.85	< 2.0 - 48
Perched Zone Piezometers																
P-07	06/23/97	ORG	< 1.0	**14**	**8.3**	**154**	< 1.0	**23,300**	**5.1**	**52**	**1,400**	**22**	**39**	< 1.0	< 1.0	NA
P-07	08/16/99	ORG	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	**22,600**	< 1,000	< 1,000	**1,180**	< 1,000	< 1,000	< 1,000	< 1,000	NA
P-07	01/26/00	ORG	**6.0**	< 5.0	< 5.0	**64**	< 5.0	**4,730**	< 5.0	**17**	**270**	**17**	**17**	< 5.0	< 5.0	NA
P-07	05/18/00	ORG	**12**	**7.7**	**5.8**	**98**	**17**	**13,000**	< 5.0	**36**	**355**	**25**	**37**	< 5.0	< 5.0	NA
P-07	05/10/01	ORG	**3.0 J**	**2.0 J**	**3.0 J**	**44**	**11**	**4,100**	< 5.0	**12**	**54**	**14**	**34**	< 5.0	< 5.0	**2,020**
P-07	10/24/01	ORG	< 25	< 25	< 25	< 25	< 25	**930**	< 25	< 25	< 25	< 25	< 25	< 25	< 25	**1,560**
P-07	04/18/02	ORG	< 5.0	< 5.0	< 5.0	**23**	**7.0**	**2,200**	< 5.0	**6.0**	**14**	**7.7**	**9.3**	< 5.0	< 5.0	**2,200 J**
P-07	04/18/02	SPT	**0.90**	**1.1**	**2.1**	**27.2**	**7.1**	**1,360**	**0.9**	**5.4**	**13**	**6.8**	**9.8**	**2.1**	< 0.50	**1,960**
P-07	11/21/02	ORG	**0.82**	< 0.50	**2.1**	**24**	**7.4**	**1,900**	**1.2**	**7.7**	< 0.50	**8.0**	**12**	**3.8**	< 0.50	**2,800**
P-07	06/11/03	ORG	**0.84**	< 0.50	**1.9**	**25**	**7.0**	**1,600**	**0.98**	**7.3**	**7.6**	**7.6**	**10**	**3.8**	< 0.50	**3,100**
P-07	09/25/03	ORG	**0.57**	< 0.50	**1.9**	**17**	< 0.50	**890**	**0.75**	**3.5**	**3.2**	**7.1**	**5.8**	**1.8**	< 0.50	**1,300**
P-07	12/17/03	ORG	**0.68**	**1.0**	**1.8**	**25**	**6.8**	**1,400**	**1.1**	**6.1**	**6.5**	**7.3**	**9.6**	**1.3**	< 1.0	**990**
P-07	03/31/04	ORG	< 5.0	< 5.0	< 5.0	**26**	< 5.0	**2,100**	< 5.0	**7.8**	**6.7**	**6.0**	**11**	< 5.0	< 5.0	**920**
P-07	06/17/04	ORG	< 5.0	< 5.0	< 5.0	**23**	< 5.0	**1,600**	< 5.0	< 5.0	< 5.0	**7.0**	**7.9**	< 5.0	< 5.0	**990**
P-07	12/15/04	ORG	< 5.0	< 5.0	**0.72**	**8.3**	**3.4**	**640**	< 5.0	**1.9**	< 0.50	**3.3**	**3.1**	< 5.0	< 0.50	**360**
P-07	03/23/06	ORG	**1.3**	**3.4**	**3.7**	**45**	**10**	**3,900**	**1.8**	**12**	< 0.50	**6.7**	**16**	**3.4**	< 0.50	**2,100**
P-07	03/23/06	SPT	< 3.0	< 3.0	< 3.0	**30**	< 3.0	**3,200**	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	**1,900 J**
P-07	06/22/06	ORG	< 5.0	< 5.0	< 5.0	**32**	**8.7**	**4,200**	< 5.0	**14**	< 5.0	**6.0**	**18**	< 5.0	< 5.0	**1,400**
P-07	06/22/06	SPT	< 20	< 20	< 20	**30**	< 20	**3,100**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**NA**
P-07	09/28/06	ORG	< 5.0	< 5.0	< 5.0	**44**	< 5.0	**5,300**	< 5.0	**12**	< 5.0	**6.1**	**17**	< 5.0	< 5.0	**2,300**
P-07	12/19/06	ORG	< 1.0	< 1.0	< 1.0	**38**	< 1.0	**3,600**	< 1.0	**13**	< 1.0	< 1.0	**13**	< 1.0	< 1.0	**2,300**
P-07	03/13/07	ORG	**1.1**	**2.4**	**2.8**	**31**	**8.0**	**3,100**	**1.7**	**10**	< 0.50	**7.2**	**13**	**2.4**	< 0.50	**2,300**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Perched Zone Piezometers (Cont'd)																
P-07	03/19/08	ORG	< 2.5	< 2.5	**3.9**	**31**	**8.4**	**3,200**	< 2.5	**8.4**	< 2.5	**7.0**	**11**	**5.2**	< 2.5	**2,300**
P-07	06/27/08	ORG	**0.95**	**2.6**	**3.8 U**	**36**	**11**	**4,500**	**1.9**	**9.4**	< 0.50	**9.3**	**15**	**10**	< 0.50	**2,500**
P-07	09/25/08	ORG	< 5.0	< 5.0	< 5.0	**30**	**6.8**	**3,000**	< 5.0	**7.9**	< 5.0	**7.1**	**17**	**17**	< 5.0	**2,500 B**
P-07	12/18/08	ORG	< 5.0	< 5.0	< 5.0	**30**	**8.0**	**2,800**	< 5.0	**6.8**	< 5.0	**8.2**	**8.4**	< 5.0	< 5.0	**2,600**
P-07	03/17/09	ORG	< 10	< 10	< 10	**40**	< 10	**3,500**	< 10	< 10	< 10	**12**	**14**	< 10	< 10	**2,600**
P-07	06/25/09	ORG	< 10	< 10	< 10	**29**	< 10	**3,100**	< 10	< 10	< 10	**11**	**10**	< 10	< 10	**2,900**
P-07	09/01/09	ORG	< 5.0	< 5.0	< 5.0	**27**	**7.0**	**2,500**	< 5.0	**7.4**	< 5.0	**8.7**	**10**	< 5.0	< 5.0	**2,600**
P-07	12/10/09	ORG	< 5.0	< 5.0	< 5.0	**37**	**8.8**	**3,300**	< 5.0	**9.7**	< 5.0	**11**	**11**	< 5.0	< 5.0	**2,800**
P-07	03/03/10	ORG	< 5.0	< 5.0	< 5.0	**35**	**9.8**	**3,500**	< 5.0	**9.9**	< 5.0	**14**	**12**	< 5.0	< 5.0	**3,100**
P-07	06/11/10	ORG	< 5.0	< 5.0	< 5.0	**33**	**7.4**	**2,400**	< 5.0	**5.6**	< 5.0	**12**	**9.7**	< 5.0	< 5.0	**2,500**
P-07	09/10/10	ORG	< 5.0	< 5.0	< 5.0	**28**	**7.1**	**1,900**	< 5.0	**6.7**	< 5.0	**7.8**	**13**	< 5.0	< 5.0	**2,500**
P-07	12/10/10	ORG	< 5.0	< 5.0	< 5.0	**29**	**6.0**	**2,700**	< 5.0	**7.1**	< 5.0	**9.1**	**8.9**	< 5.0	< 5.0	**2,000**
P-07	03/30/11	ORG	< 5.0	< 5.0	< 5.0	**29**	**7.9**	**2,400**	< 5.0	**9.6**	< 5.0	**12**	**11**	< 5.0	< 5.0	**1,000**
P-07	02/09/12	ORG	< 20	< 20	< 20	**33**	< 20	**2,800**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**2,200**
P-07	02/07/13	ORG	< 2.5	< 2.5	< 2.5	**22**	**6.6**	**1,600**	< 2.5	**4.8**	< 2.5	**7.2**	**5.9**	**2.8**	< 2.5	**1,900**
P-07	02/14/14	ORG	< 2.0	**1.1**	**1.6**	**17**	**4.9**	**1,100**	< 2.0	**5.7**	< 2.0	**5.4**	**4.9**	**3.1**	< 2.0	**1,400**
P-07	02/05/15	ORG	< 2.0	< 2.0	< 2.0	**17**	**4.0**	**1,700**	< 2.0	**5.3**	< 2.0	**6.0**	**6.0**	**5.2**	< 2.0	**1,600**
P-07	02/03/16	ORG	< 2.5	< 2.5	**2.6**	**19**	**4.2**	**1,600**	< 2.5	**3.6**	< 2.5	**4.8**	**3.6**	**4.4**	< 2.5	**1,500**
P-07	02/07/17	ORG	< 2.5	< 2.5	< 2.5	**20**	< 2.5	**2,100**	< 2.5	**4.6**	< 2.5	**5.0**	**6.2**	**6.0**	< 2.5	**1,300**
P-07	02/28/18	ORG	< 2.5	< 2.5	< 2.5	**19**	**4.4**	**1,900**	< 2.5	**5.2**	< 2.5	**4.0**	**4.2**	**5.2**	< 2.5	**370 E**
P-07	02/14/19	ORG	< 5.0	< 5.0	< 5.0	**16**	< 5.0	**1,400**	< 5.0	< 5.0	< 5.0	< 5.0	**6.1**	< 5.0	< 5.0	**1,700**
P-07 Historical Range* **			< 1.0 - 12	< 0.50 - 14	< 1.0 - 8.3	8.3 - 154	< 0.50 - 17	640 - 23,300	< 1.0 - 5.1	< 3.0 - 52	< 0.50 - 1,400	< 1.0 - 25	< 3.0 - 39	< 1.0 - 17	< 0.50	360 - 3,100
P-09	09/25/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	10/08/03	ORG	< 0.50	< 0.50	< 0.50	**0.87**	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/18/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	03/30/04	ORG	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	06/17/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-900	06/17/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.2
P-09	06/17/04	SPT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
P-09	09/21/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.1
P-09	12/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.2
P-09	03/16/05	ORG	< 0.50	< 0.50	< 0.50	**0.65**	< 0.50	**88**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.2
P-09	06/24/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**43 E**	< 0.50	< 0.50	< 0.50	< 0.50	**0.58**	< 0.50	< 0.50	< 2.0
P-09	09/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/20/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.2
P-09	12/20/05	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**
P-09	03/22/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.8**
P-09	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	09/28/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.2

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Perched Zone Piezometers (Cont'd)																
P-09	12/18/06	ORG	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	**37**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	03/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	06/21/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	09/26/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	03/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	06/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	09/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.1**
P-09	06/25/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.7
P-09	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/08/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5
P-09	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	06/10/10	ORG	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	**30**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	09/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/08/10	ORG	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	**21**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	03/30/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.86**
P-09	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.68**
P-09	02/07/13	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
P-09	02/05/14	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.56**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.35**
P-09	02/04/15	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.29**
P-09	02/02/16	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
P-09	02/08/17	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
P-09	02/28/18	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.8**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**
P-09	02/20/19	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.7**	< 0.50	**0.28 J**	< 0.50	< 0.50	**0.11 J**	< 0.50	< 0.50	**0.43**
P-09 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 0.87	< 0.50	0.56 - 130	< 0.50	< 0.50-0.40 J	< 0.50	< 0.50	< 0.50 - 0.58	< 0.50	< 0.50	< 0.20 - 7.1
MW-6-W-104	01/16/97	ORG	< 1.0	**12**	**33**	**500**	< 1.0	**19,000**	**24**	**89**	**2,800**	**223**	**73**	< 1.0	< 1.0	NA
MW-9-113-PW	03/21/97	ORG	< 1.0	**10**	**15**	**210**	< 1.0	**27,300**	**8.2**	**65**	**4,500**	**120**	**48**	**11**	< 1.0	NA
Quality Assurance/Quality Control Samples																
TB-051115	05/11/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-051215	05/12/15	TB-SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-051315	05/13/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-06052015	06/05/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-071415	07/14/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-080615	08/06/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-081015	08/10/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-081115	08/11/15	TB-SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-081215	08/12/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Quality Assurance/Quality Control Samples (Cont'd)																
TB-081315	08/13/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-081315	08/13/15	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
TB-082015	08/20/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-090315A	09/03/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-100615	10/06/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110215	11/02/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110215B	11/02/15	TB-SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-110315	11/03/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110415	11/04/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110515	11/05/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-110415	11/04/15	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
TB-120315	12/03/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-121115	12/11/15	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-010716	01/07/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-012116	01/21/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020316	02/03/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020316B	02/03/16	TB-SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-020416	02/04/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-020416	02/04/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
RB-020416A	02/04/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
TB-030316	03/03/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-040516	04/05/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-050216	05/02/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-050316	05/03/16	TB-SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-050516	05/05/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-060116	06/01/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-070716	06/16/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-070716	07/07/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-072116	07/21/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-080116	08/01/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-080216	08/02/16	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
TB-080216B	08/02/16	TB	< 0.50	< 0.50	<1.0	<1.0	< 0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 10	<1.0	NA
TB-080316A	08/03/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-080416	08/04/16	TB-SPT	< 0.50	< 0.50	<1.0	<1.0	< 0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 10	<1.0	NA
TB-090816	09/08/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-091516	09/15/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-100616	10/16/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-102016	10/20/16	TB	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-110116	11/01/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Quality Assurance/Quality Control Samples (Cont'd)																
TB-110716A	11/07/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110716B	11/07/16	TB-SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-110816	11/08/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-111716	11/17/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-120116	12/01/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-121616	12/16/16	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-010617	01/06/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-012617	01/26/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020317	02/03/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020617A	02/06/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020617B	02/06/17	TB-SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
RB-020717	02/07/17	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020817	02/08/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-020817	02/08/17	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020917	02/09/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-030217	03/02/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-031617	03/16/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-040617	04/06/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-042017	04/20/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-050417	05/04/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-051517A	05/15/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-051517B	05/15/17	TB	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-051717	05/17/17	TB	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-051817	05/18/17	TB	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-060117	06/01/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-061517	06/15/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-070617	07/06/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-072017	07/20/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-080317	08/03/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-080717A	08/07/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-080717B	08/07/17	TB-SPT	< 0.50	< 0.50	<1.0	<1.0	< 0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 10	<1.0	NA
RB-080817	08/08/17	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.76**
TB-080917	08/09/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-080917	08/09/17	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
TB-081017	08/10/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-081717	08/17/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-090117	09/01/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-091417	09/14/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (–/5)	1,2-DCA (–/–)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (–/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Quality Assurance/Quality Control Samples (Cont'd)																
TB-101917	10/19/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110617	11/06/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110717	11/07/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-110717	11/07/17	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
TB-110817	11/08/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-112017	11/20/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-120417	12/04/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-121417	12/14/17	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-010418	01/04/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-011818	01/18/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020118	02/01/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-021518	02/15/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-022718A	02/27/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-022718B	02/27/18	TB-SPT	< 0.50	< 0.50	<1.0	<1.0	< 0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 10	<1.0	NA
RB-022718	02/27/18	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**
TB-030118A	03/01/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-030118B	03/01/18	TB-SPT	< 0.50	< 0.50	<1.0	<1.0	< 0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 10	<1.0	NA
TB-030218A	03/02/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-030518	03/05/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-031518	03/15/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-031918	03/19/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-032918	03/29/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-040518	04/05/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-041918	04/19/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-050318	05/03/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-050818A	05/08/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-050818B	05/08/18	TB	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-050818	05/09/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-051018	05/10/18	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
TB-051018	05/10/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-051718	05/17/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-060718	06/07/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-062118	06/21/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-070518	07/05/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-071918	07/19/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-080218	08/02/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-081618	08/16/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-082118A	08/21/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
			Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	1,4-DIOXANE (3*/1**)
Quality Assurance/Quality Control Samples (Cont'd)																
TB-082118B	08/21/18	TB-SPT	< 0.50	< 0.50	<1.0	<1.0	< 0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 10	<1.0	NA
RB-082118A	08/21/18	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-082218	08/22/18	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.63**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
TB-082218	08/22/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-082318A	08/23/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-082318B	08/23/18	TB-SPT	< 0.50	< 0.50	<1.0	<1.0	< 0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 10	<1.0	NA
TB-082418	08/24/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-091118	09/11/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-092018	09/20/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-100518	10/05/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-101818	10/18/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110118	11/01/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110618A	11/06/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110618B	11/06/18	TB-SPT	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
RB-110718	11/07/18	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
TB-110818	11/08/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-111518	11/15/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-113018	11/30/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-120418	12/04/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-121918	12/19/18	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-010319	01/03/19	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-012419	01/24/19	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020719	02/07/19	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-021219A	02/12/19	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-021219B	02/12/19	TB-SPT	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-021319	02/13/19	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-021419A	02/14/19	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-021419B	02/14/19	TB-SPT	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	NA
TB-021519	02/15/19	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-021919	02/19/19	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-022019	02/20/19	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-022019	02/20/19	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
TB-022119	02/21/19	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA

NOTE: Detections are shown in **BOLD** type.

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toluene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)

FOOTNOTES

[a] Reconnaissance groundwater sample; results should be considered qualitative.
[b] Groundwater sample collected after purging two additional casing volumes.
[c] Groundwater sample collected after standard 3 purge volumes.
[d] Groundwater sample collected after 10 purge volumes.
[e] Groundwater sample collected after 30 purge volumes.
[f] Groundwater sample collected after 50 purge volumes.

1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
PCE = Tetrachloroethylene
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane
TCE = Trichloroethylene
TCFM = Trichlorofluoromethane
(<) = Less than; the value is the Limit of Detection for that compound
(--) = Not promulgated

Semi-VOCs = Semivolatile organic compounds
E = Data qualified as estimated in accordance with quality control criteria.
NA = Not analyzed for constituent
FD = Field duplicate sample
J = Data qualified as Estimated; does not meet calibration range acceptance criteria.
ORG = Original sample
QA = Quality Assurance
RB = Rinsate blank sample
SPT = Split sample
TB = Trip blank sample
U = Data qualified as unusable in accordance with quality control criteria.
ug/l = Micrograms per liter
MCL = Maximum contaminant level
* = 1,4-Dioxane Action Level of 3 ug/l
** = California Notification Level for 1,4-dioxane of 1 ug/l
*** = Historical Range determined using original samples exclusively
B = Analyte detected in the associated Method Blank

TABLE 5

OTHER VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

WELL IDENTIFIER	DATE SAMPLED	QUALITY ASSURANCE CODE	COMPOUNDS	CONCENTRATION (micrograms per liter)
Regional Groundwater System Monitor and Extraction Wells				
EW-01	12/11/06	SPT	Methylene chloride	4
EW-01	12/13/07	ORG	Vinyl chloride	0.58
EW-01	12/13/07	FD	Vinyl chloride	0.6
EW-02	12/07/11	ORG	Naphthalene	6.4
EW-02	12/10/12	ORG	Chloromethane	1.2
EW-02	05/19/16	ORG	Chloromethane	0.51
EW-02	08/16/18	ORG	1,1-Dichloropropene	0.90
MW-06	02/20/19	ORG	Chloromethane	0.29 J
MW-08	12/20/05	SPT	Methylene chloride	3
MW-08	06/22/06	ORG	Methylene chloride	0.62
MW-08	06/22/06	FD	Methylene chloride	0.69
MW-08	05/13/15	ORG	Ethylbenzene	0.65
MW-08	05/13/15	ORG	m,p-Xylene	2.2
MW-08	05/13/15	ORG	o-Xylene	0.60
MW-08	08/12/15	ORG	m,p-Xylene	1.1
MW-08	08/12/15	ORG	o-Xylene	0.54
MW-08	11/07/18	SPT	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.2 J
MW-16	04/16/02	SPT	2-butanone	7
MW-16	04/16/02	SPT	Acetone	20
MW-16	06/18/04	ORG	Chlorobenzene	1.0
MW-16	12/10/04	ORG	Methylene chloride	1.3
MW-18	11/19/02	ORG	m,p-Xylene	0.54
MW-18	08/13/15	ORG	m,p-Xylene	1.2
MW-18	08/13/15	ORG	o-Xylene	0.52
MW-18	02/28/18	ORG	Chloromethane	0.44 J
MW-20	08/21/18	SPT	Acetone	7.9 J
MW-20	02/20/19	ORG	Chloromethane	0.26 J
MW-21	09/23/03	FD	1,3-Dichloropropane	0.8
MW-21	12/17/03	ORG	trans-1,2-Dichloroethylene	0.62
MW-21	03/17/05	ORG	trans-1,2-Dichloroethylene	0.57
MW-21	12/11/06	SPT	Acetone	40
MW-21	12/11/06	SPT	Methylene chloride	50 E
MW-21	06/24/11	SPT	1,2,2-trichlorotifluoroethane	2
MW-21	02/03/14	SPT	Methylene chloride	8.4
MW-21	11/06/17	SPT	1,1,2-Trichloro-1,2,2-Trifluoroethane	6.8 J
MW-21	11/06/18	SPT	1,1,2-Trichloro-1,2,2-Trifluoroethane	4.8 J
MW-26C	12/20/07	ORG	1,1-dichloropropene	0.93
MW-26C	08/15/13	ORG	Chlorethane	0.87
MW-27	03/02/18	ORG	Chloromethane	0.86
MW-28	05/27/08	ORG	Vinyl chloride	0.58
MW-28	03/30/11	ORG	Chloromethane	0.91
MW-29	05/11/12	SPT	Tert-Butyl Alcohol	10
MW-29	05/19/16	ORG	Chloromethane	0.61
MW-30B	08/05/11	SPT	1,2,2-trichlorotifluoroethane	2
MW-30B	02/28/18	SPT	n-Butylbenzene	0.26J,U
MW-30B	08/23/18	SPT	Acetone	4.9 J
MW-30B	08/23/18	SPT	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2 J
MW-30B	02/12/19	SPT	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.8 J

TABLE 5

OTHER VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

WELL IDENTIFIER	DATE SAMPLED	QUALITY ASSURANCE CODE	COMPOUNDS	CONCENTRATION (micrograms per liter)
MW-32B_1SV	05/04/16	ORG	Chloromethane	0.60
MW-32B_1SV	05/10/18	ORG	Chloromethane	0.40 J
MW-32B	05/10/18	ORG	Chloromethane	0.49 J
MW-33	05/03/16	ORG	Chloromethane	0.50
MW-34A	02/25/11	SPT	Acetone	6 U
MW-34B	02/25/11	SPT	Acetone	6 U
MW-34B	03/10/11	SPT	Acetone	6 U
MW-3400B	05/16/17	FD	Naphthalene	0.50
MW-34B	03/01/18	SPT	Acetone	38
MW-34B	08/23/18	SPT	Acetone	11 J
MW-34C	02/25/11	SPT	Acetone	7 U
MW-34C	11/02/11	ORG	Chloromethane	0.5
MW-35A	01/19/11	ORG	Bromodichloromethane	4.3
MW-35A	01/19/11	ORG	Bromoform	1.5
MW-35A	01/19/11	ORG	Bromomethane	0.75
MW-35A	01/19/11	ORG	Chloromethane	0.78
MW-35A	01/19/11	ORG	Dibromochloromethane	2.5
MW-35A	01/19/11	FD	Bromodichloromethane	4.0
MW-35A	01/19/11	FD	Bromoform	1.4
MW-35A	01/19/11	FD	Chloromethane	0.73
MW-35A	01/19/11	FD	Dibromochloromethane	2.4
MW-35A	01/19/11	SPT	Bromodichloromethane	3
MW-35A	01/19/11	SPT	Bromoform	2
MW-35A	01/19/11	SPT	Dibromochloromethane	2
MW-35A	02/03/11	ORG	Bromodichloromethane	3.6
MW-35A	02/03/11	ORG	Bromoform	0.65
MW-35A	02/03/11	ORG	Dibromochloromethane	1.7
MW-35A	02/03/11	FD	Bromodichloromethane	4.1
MW-35A	02/03/11	FD	Bromoform	0.69
MW-35A	02/03/11	FD	Dibromochloromethane	2.0
MW-35A	02/03/11	SPT	Bromodichloromethane	2
MW-35A	02/03/11	SPT	Dibromochloromethane	1
MW-35A	03/28/11	ORG	Bromodichloromethane	0.90
MW-35A	06/22/11	ORG	Bromodichloromethane	0.59
MW-35A	11/01/11	ORG	Chloromethane	0.59
MW-35C	01/19/11	ORG	Bromodichloromethane	11 E
MW-35C	01/19/11	ORG	Bromoform	1.1
MW-35C	01/19/11	ORG	Bromomethane	0.52
MW-35C	01/19/11	ORG	Dibromochloromethane	3.6
MW-35C	01/19/11	FD	Bromodichloromethane	10 E
MW-35C	01/19/11	FD	Bromoform	1.1
MW-35C	01/19/11	FD	Bromomethane	0.90
MW-35C	01/19/11	FD	Chloromethane	0.64
MW-35C	01/19/11	FD	Dibromochloromethane	3.5
MW-35C	01/19/11	SPT	Bromodichloromethane	8 E
MW-35C	01/19/11	SPT	Bromoform	1
MW-35C	01/19/11	SPT	Dibromochloromethane	3
MW-36	05/03/16	ORG	Chloromethane	0.96
MW-36	11/08/16	SPT	Acetone	30
MW-41	03/02/18	ORG	Chloromethane	0.43 J
MW-41	02/14/19	ORG	1,1-Dichloropropene	0.70

TABLE 5

OTHER VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

WELL IDENTIFIER	DATE SAMPLED	QUALITY ASSURANCE CODE	COMPOUNDS	CONCENTRATION (micrograms per liter)
Perched Zone Piezometers				
P-07	06/22/06	ORG	Methylene chloride	7.4
P-07	03/13/07	ORG	Vinyl chloride	1.2
P-07	06/27/08	ORG	Vinyl chloride	1.8
P-07	09/25/08	ORG	Vinyl chloride	7.8
P-09	12/20/05	SPT	Methylene chloride	3 U
Perched Zone Grab Samples (From Regional Groundwater System Monitor Well Boring)				
MW-6-W-104	01/16/97	ORG	1,1,1,2-tetrachloroethane	1.6
MW-6-W-104	01/16/97	ORG	1,2-Dichloropropane	2.1
Quality Assurance/Quality Control Samples				
RB-08142013	08/14/13	ORG	Methylene chloride	3.7
RB-08142013B	08/14/13	ORG	Methylene chloride	3.4
TB-021315	02/13/15	TB	Methylene chloride	1.0
TB-110515	11/05/15	TB	Methylene chloride	1.2
TB-121115	12/11/15	TB	Methylene chloride	1.5
TB-072116	07/21/16	TB	Methylene chloride	3.6
TB-080316A	08/03/16	TB	Methylene chloride	2.1
TB-121616	12/16/16	TB	Methylene chloride	1.4
TB-022818B	02/28/18	TB	n-Butylbenzene	0.37 B,J
TB-022818B	02/28/18	TB	4-Chlorotoluene	0.16 J
TB-022818B	02/28/18	TB	p-Isopropyltoluene	0.20 B,J
TB-030118B	03/01/18	TB	n-Butylbenzene	0.26 J
TB-082118B	08/21/18	TB-SPT	Acetone	8.3 J
TB-082118B	08/21/18	TB-SPT	Methylene chloride	1.2 J
RB-082118A	08/21/18	ORG	Chloromethane	0.25 J
TB-021919	02/19/19	TB	Methylene chloride	0.72 J
TB-022019	02/20/19	TB	Methylene chloride	0.63 J
RB-022019	02/20/19	RB	Chloromethane	0.30 J

FOOTNOTES

E = Estimated
FD = Field duplicate sample
ORG = Original sample
SPT = Split sample
U = Unusable

TABLE 6
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLING SCHEDULE

COMPOUND(S) / CONSITITUENT	ANALYTICAL METHOD	SAMPLE CONTAINER	REPORTING DETECTION LIMITS (milligrams per liter)	SAMPLE FREQUENCY AND LOCATION: Daily Samples[1]: Days 1-5 — System Influent (INF)	Post-Filter (PF)	Post-Oxidation (POX)	Carbon Breakthrough (CBT)[3]	Post-Carbon (CEFF)	Weekly Samples[1]: Weeks 1-4 — System Influent (INF)	Post-Filter (PF)	Post-Oxidation (POX)	Carbon Breakthrough (CBT)[3]	Post-Carbon (CEFF)	Monthly Samples: Week 5+ — Extraction Wells (Well ID)[2]	System Influent (INF)	Post-Filter (PF)	Post-Oxidation (POX)	Carbon Breakthrough (CBT)[3]	Post-Carbon (CEFF)	Quarterly Samples: Week 1+ — Extraction Wells (Well ID)[2]	System Influent (INF)	Post-Oxidation (POX)	Post-Carbon (CEFF)
COMPOUNDS/CONSTITUENTS NORMALLY REQUIRED AS PART OF NPDES OR WDR PERMITS, PURSUANT TO CRWQCB REGION 8 ORDER NO. R8-2003-0085																								
Volatile Organic Compounds	EPA 8260B	3 - 40 mL VOA, HCl	QAPP[4]	X		X	X	X	X		X	X	X		X	X		X	X	X				
1,4-Dioxane	EPA 8270 Modified	1 L Amber	0.002	X					X						X	X								
1,4-Dioxane	EPA 8270 SIM	1 L Amber	0.0002			X					X							X						
Total Suspended Solids	SM2540D	250 mL poly	10														X							
Total Dissolved Solids	SM2540C	250 mL poly	10																		X	X	X	X
SELECTED METALS																								
Dissolved Metals (Iron, Manganese, Calcium, Sodium, Magnesium)	EPA 6010B	500 mL poly	QAPP[4]	(a)																	X	X		
Selenium	EPA 6010B	500 mL poly, HNO_3	QAPP[4]																		X	X		
SELECTED INORGANIC CONSTITUENTS																								
Hydroxide Alkalinity	SM2320B	250 mL poly	2.0	(a)													X	X			X	X		
Bicarbonate Alkalinity	SM2320B	250 mL poly	2.0	(a)													X	X			X	X		
Carbonate Alkalinity	SM2320B	250 mL poly	2.0	(a)													X	X			X	X		
Total Alkalinity	SM2320B	250 mL poly	2.0	(a)													X	X			X	X		
BROMATE EVALUATION																								
Bromate	EPA 317.0	125 mL poly	0.0005			X					X							X						
Bromide	EPA 300.0	125 mL poly	0.05	(a)					(a)						X	X								
OTHER CONSTITUENTS/COMPOUNDS																								
Total Organic Carbon	SM5310B	3 - 40 mL VOA, HCl	3.0	(a)													X	X			X	X	X	
Anions (Chloride, Sulfate, Nitrate, Nitrite, and Phosphate)	EPA 300.0	500 mL poly	Varies	(a)																	X	X	X	
Chemical Oxygen Demand	EPA 410.4	125 mL poly, H_2SO_4	5.0	(a)																	X	X	X	
UV Absorption (UVA) @254nm	EPA 415.3	250 mL Amber	N/A		(a)												X				X	X	X	
Field Parameters																								
Dissolve Oxygen (DO)	N/A	N/A	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Electrical Conductance (EC)	N/A	N/A	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Redox Potential	N/A	N/A	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Temperature	N/A	N/A	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
pH	N/A	N/A	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Turbidity	N/A	N/A	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Flow-Meter	N/A	N/A	N/A	X				X	X				X	X	X					X				
Residual Hydrogen Peroxide	N/A	N/A	N/A			(a)	(a)	(a)			X	X	X					X	X	X				

TABLE 6
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLING SCHEDULE

FOOTNOTES

(a) Only one sample to be collected during sampling period.

1 Daily and weekly samples collected during the first month of operation will be repeated after major modifications to system equipment or operating parameters, as detailed in the Workplan.

2 If more than one extraction well is in operation, combined influent samples will be collected in addition to extraction wellhead samples, with the same sampling schedule as the extraction wellheads.

3 Carbon breakthrough will be collected from the effluent of the first carbon unit in series; when breakthrough of the first unit is detected, the breakthrough sample will be collected from the effluent of the second carbon unit in series.

4 QAPP, Quality Assurance Project Plan, Appendix B of Additional Groundwater Assessment Workplan, Hargis + Associates, Inc., April 25, 2003.

CRWQCB = California Regional Water Quality Control Board, Santa Ana Region 8
NPDES = National Pollutant Discharge Elimination System
WDR = Waste Discharge Requirement
N/A = Not applicable
mL = Milliliter
VOA = Volatile organic analysis
HCl = Hydrochloric acid
HNO_3 = Nitric acid
H_2SO_4= Sulfuric acid
nm = Nanometers
EPA = U.S. Environmental Protection Agency
SIM = Selected ion monitoring
SM = Standard Method
L = Liter
poly = High density polyethylene bottle
Amber = Amber glass bottle

TABLE 7

PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM OPERATIONAL SUMMARY

OPERATIONAL PERIOD (MONTH/QUARTER/YEAR)	WELLFIELD PRODUCTION[a] (gallons)	AVERAGE DISCHARGE RATE[b] (gpm)	AVERAGE OPERATIONAL DISCHARGE RATE[c] (gpm)	OPERATIONAL HOURS DURING OPERATIONAL PERIOD	HOURS IN OPERATIONAL PERIOD	% OPERATIONAL
2008[d]	3,659,562	13.8	18.2	3,358	4,416	76%
2009	5,787,848	11.0	18.1	5,319	8,760	61%
2010	14,295,261	27.2	46.4	5,131	8,760	59%
2011	20,456,899	38.9	45.8	7,442	8,760	85%
2012[e]	19,378,122	40.2	47.2	6,850	8,040	85%
2013[f]	21,148,029	40.2	45.7	7,713	8,760	88%
2014[g]	7,690,471	14.6	46.8	2,740	8,760	31%
2015[h]	18,019,312	34.3	47.9	6,275	8,760	72%
2016[i]	21,977,404	41.8	44.2	8,284	8,736	95%
2017[j]	18,364,603	34.6	39.8	7,684	8,835	87%
2018[k]	18,144,835	34.5	38.3	7,889	8,760	90%
Dec-18	1,691,132	39.1	40.5	696	721	97%
Jan-19	1,071,270	21.2	40.7	439	840	52%
Feb-19	1,139,085	30.6	41.8	454	621	73%
1Q2019	3,901,487	29.8	40.9	1,589	2,183	73%
SINCE INCEPTION	172,823,833	30.8	41.0	70,274	93,529	75%

Notes:

(a) Based on Effluent totalizer readings from the Carbon Effluent, which also includes relatively small amounts of monitor well purge water from quarterly sampling events, well installations, and aquifer testing.

(b) Total volume of water treated during the operational period divided by the total number of minutes in that operational period.

(c) Total volume of water treated during the operational period divided by the minutes of operation in that operational period.

(d) Operational period beginning 7/1/2008 (first month of system operation).

(e) 2012 Calendar year is from 1/1/2012 through 11/30/2012.

(f) 2013 Calendar year is from 12/1/2012 through 11/30/2013.

(g) 2014 Calendar year is from 12/1/2013 through 11/30/2014.

(h) 2015 Calendar year is from 12/1/2014 through 11/30/2015.

(i) 2016 Calendar year is from 12/1/2015 through 11/30/2016.

(j) 2017 Calendar year is from 12/1/2016 through 11/30/2017.

(k) 2018 Calendar year is from 12/1/2017 through 11/30/2018.

gpm = gallons per minute

Refer to previous quarterly reports for detail of 2008 through 2014 operational summary.

Treatment of groundwater from extraction well EW-02 initiated in 2010.

Treatment of groundwater from monitor well MW-29 initiated in 2014.

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
1,1,2-Trichloroethane	06/22/05	ug/L	--	--	6.5	--	--	--	--	--	--
(5 ug/L MCL)	09/22/05	ug/L	--	--	1.0	--	--	--	--	--	--
	12/19/05	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/22/06	ug/L	--	--	1.0	--	--	--	--	--	--
	06/21/06	ug/L	--	--	<0.50	--	--	--	--	--	--
	12/11/06	ug/L	--	--	0.8	--	--	--	--	--	--
	03/14/07	ug/L	--	--	<0.50	--	--	--	--	--	--
	06/22/07	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/27/07	ug/L	--	--	2.1	--	--	--	--	--	--
	12/13/07	ug/L	--	--	10	--	--	--	--	--	--
	06/25/08	ug/L	--	--	<5	--	--	--	--	--	--
	07/08/08	ug/L	16	--	5.5	--	10	--	8.1	<0.50	<0.50
	07/09/08	ug/L	17	--	5.0	--	10	--	7.8	<0.50	<0.50
	07/10/08	ug/L	13	--	3.2	--	7.8	--	5.1	<0.50	<0.50
	07/15/08	ug/L	13	--	4.6	--	7.4	3.9	5.4	<0.50	<0.50
	07/16/08	ug/L	14	--	3.9	--	8.8	--	5.7	<0.50	<0.50
	07/23/08	ug/L	13	--	2.6	--	<5	--	4.5	<0.50	<0.50
	07/30/08	ug/L	10	--	2.6	--	<5	--	4.4	<0.50	<0.50
	08/06/08	ug/L	7.7	--	2.0	--	<5	--	4.6	<0.50	<0.50
	08/25/08	ug/L	6.3	--	1.5	--	3.2	--	2.8	<0.50	<0.50
	09/24/08	ug/L	4.8	--	1.2	--	<2.5	--	1.8	<0.50	<0.50
	10/22/08	ug/L	3.0	--	1.2	--	2.3	--	1.5	<0.50	<0.50
	11/26/08	ug/L	2.5	--	1.5	--	2.3	--	1.7	<0.50	<0.50
	02/25/09	ug/L	<2.5	--	3	--	2.3	--	1.9	<0.50	<0.50
	03/18/09	ug/L	2.5	--	1.2	--	1.3	--	1.3	<0.50	<0.50
	04/29/09	ug/L	<2.5	--	0.86	--	1.5	--	1.0	<0.50	<0.50
	05/27/09	ug/L	<2.5	--	1.5	--	1.6	--	1.4	<0.50	<0.50
	06/29/09	ug/L	2.1	--	1.2	--	1.6	--	1.2	<0.50	<0.50
	07/22/09	ug/L	1.9	--	1.3	--	1.6	--	1.2	<0.50	<0.50
	08/14/09	ug/L	<2.5	--	0.98	--	1.6	--	0.97	<0.50	<0.50
	09/11/09	ug/L	<2.5	--	1.3	--	1.7	--	1	<0.50	<0.50
	10/08/09	ug/L	<2.5	--	0.92	--	1.5	--	1.2	<0.50	<0.50
	12/09/09	ug/L	<0.5	--	5.1	--	2.5	--	1.7	<0.50	<0.50
	03/05/10	ug/L	<1.0	--	3.2	--	--	--	--	--	--
	03/22/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	03/23/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	03/24/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	03/25/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	03/26/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	04/01/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	04/09/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	04/13/10	ug/L	--	--	--	0.59	--	--	<0.50	<0.50	<0.50
	04/23/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	05/25/10	ug/L	--	--	--	<0.43	--	--	<0.43	<0.43	<0.43
	06/10/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	06/11/10	ug/L	<2.0	--	4.7	--	--	--	--	--	--
	07/08/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	08/02/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	09/02/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	09/08/10	ug/L	<2.0	--	<1.0	--	--	--	--	--	--
	10/07/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	11/11/10	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	12/06/10	ug/L	7.6	--	--	--	--	--	--	--	--
	12/07/10	ug/L	--	--	2.7	<0.50	--	--	<0.50	<0.50	<0.50
	01/13/11	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	02/03/11	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	03/02/11	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	03/24/11	ug/L	13	--	1.3	--	--	--	--	--	--
	04/01/11	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	05/04/11	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	06/07/11	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	06/23/11	ug/L	12	--	0.83	--	--	--	--	--	--
	07/02/11	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	08/01/11	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	08/02/11	ug/L	11	--	1.4	--	--	--	--	--	--
	09/09/11	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	10/17/11	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	11/01/11	ug/L	11	--	0.64	<0.50	--	--	<0.50	<0.50	<0.50
	12/07/11	ug/L	<10	--	--	<0.50	<5	--	3	<0.50	<0.50
	01/06/12	ug/L	<10	--	--	<0.50	<0.50	--	0.98	<0.50	<0.50
	02/06/12	ug/L	--	--	<0.50	--	--	--	--	--	--
	02/08/12	ug/L	<4	--	--	<0.50	<1	--	0.66	<0.50	<0.50
	03/09/12	ug/L	<4	--	--	<0.50	<1	--	0.58	<0.50	<0.50
	04/16/12	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	05/01/12	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	05/07/12	ug/L	<4	--	<0.50	--	--	--	--	--	--
	06/08/12	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	07/11/12	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	08/03/12	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	08/06/12	ug/L	<5	--	0.56	--	--	--	--	--	--
	09/06/12	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	10/15/12	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	11/05/12	ug/L	6.8	--	0.75	<0.50	--	--	<0.50	<0.50	<0.50
	12/10/12	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	01/04/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	02/04/13	ug/L	12	--	0.67	--	--	--	--	--	--
	02/09/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	03/09/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	04/15/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	05/07/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	05/13/13	ug/L	8.8	--	<0.5	--	--	--	--	--	--
	06/13/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	07/02/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	08/10/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	08/12/13	ug/L	6.1	--	0.85	--	--	--	--	--	--
	09/03/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	10/05/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	11/01/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	11/11/13	ug/L	8.8	--	1.3	--	--	--	--	--	--
	12/11/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	01/17/14	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	02/03/14	ug/L	10	--	1.4	--	--	--	--	--	--
	02/11/14	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	03/04/14	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	05/20/14	ug/L	--	--	3.7	--	--	--	--	--	--
	07/30/14	ug/L	--	--	--	--	--	<0.50	<0.50	--	<0.50
	08/01/14	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	08/04/14	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	08/05/14	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	08/06/14	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	08/07/14	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	08/08/14	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	08/15/14	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	08/18/14	ug/L	7.0	--	8.4	--	--	--	--	--	--
	08/22/14	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	08/29/14	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	09/15/14	ug/L	--	--	--	--	--	--	--	--	<0.50
	11/03/14	ug/L	--	0.89	--	<0.5	<0.50	--	<0.50	<0.50	<0.50
	11/04/14	ug/L	1.5	--	9	--	--	--	--	--	--
	12/11/14	ug/L	--	--	--	--	--	--	--	--	<0.50
	12/18/14	ug/L	--	1.4	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/19/15	ug/L	--	0.78	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/02/15	ug/L	7.6	--	5.7	--	--	--	--	--	--
	02/13/15	ug/L	--	1.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/06/15	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/02/15	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/01/15	ug/L	--	0.95	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/12/15	ug/L	10	--	1.6	--	--	--	--	--	--
	06/05/15	ug/L	--	0.98	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/14/15	ug/L	--	0.99	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/06/15	ug/L	--	1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/11/15	ug/L	8.4	--	3.6	--	--	--	--	--	--
	09/03/15	ug/L	--	0.94	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/15	ug/L	--	1.2	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/02/15	ug/L	7.3	--	4.2	--	--	--	--	--	--
	11/05/15	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/03/15	ug/L	--	1.3	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/11/15	ug/L	--	1.2	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/07/16	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/21/16	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/01/16	ug/L	7.9	0.97	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/18/16	ug/L	--	<1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/03/16	ug/L	--	0.97	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/17/16	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/05/16	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/21/16	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/02/16	ug/L	11	--	1.5	--	--	--	--	--	--
	05/05/16	ug/L	--	1.2	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/19/16	ug/L	--	1.3	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/01/16	ug/L	--	1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/16/16	ug/L	--	1.2	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/07/16	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/21/16	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/01/16	ug/L	11	--	1.7	--	--	--	--	--	--
	08/04/16	ug/L	--	1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/18/16	ug/L	--	0.9	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/08/16	ug/L	--	0.83	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/15/16	ug/L	--	<0.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/16	ug/L	--	0.87	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/20/16	ug/L	--	<0.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/01/16	ug/L	--	0.63	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/08/16	ug/L	9.0	--	1.7	--	--	--	--	--	--
	11/17/16	ug/L	--	0.92	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/01/16	ug/L	--	0.77	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/15/16	ug/L	--	0.93	--	<0.50	--	--	--	--	--
	12/16/16	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	01/06/17	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/26/17	ug/L	--	1.2	--	<0.50	<0.50	--	<0.50	<0.50	<0.50

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SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	02/03/17	ug/L	--	--	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/06/17	ug/L	13	--	<0.50	--	--	--	--	--	--
	02/09/17	ug/L	--	0.90	--	--	--	--	--	--	--
	02/16/17	ug/L	--	0.98	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/02/17	ug/L	--	0.88	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/16/17	ug/L	--	1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/06/17	ug/L	--	0.80	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/20/17	ug/L	--	0.96	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/04/17	ug/L	--	1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/15/17	ug/L	4.9 J	--	1.1	--	--	--	--	--	--
	05/18/17	ug/L	--	0.78	--	<0.50	0.21 J	--	<0.50	<0.50	<0.50
	06/01/17	ug/L	--	0.87	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/15/17	ug/L	--	0.73	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/06/17	ug/L	--	0.77	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/20/17	ug/L	--	0.83	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/03/17	ug/L	--	0.86	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/07/17	ug/L	7.5	--	0.67	--	--	--	--	--	--
	08/17/17	ug/L	--	0.93	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/01/17	ug/L	--	0.81	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/14/17	ug/L	--	0.70	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/17	ug/L	--	0.58	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/19/17	ug/L	--	0.56	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/06/17	ug/L	5.5	<0.50	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/20/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/04/17	ug/L	--	0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/14/17	ug/L	--	<0.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/04/18	ug/L	--	<0.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/18/18	ug/L	--	<0.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/01/18	ug/L	--	0.62	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/15/18	ug/L	--	0.60	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/27/18	ug/L	2.2 J	--	--	--	--	--	--	--	--
	03/15/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	03/19/18	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/29/18	ug/L	--	0.57	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/05/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/19/18	ug/L	--	0.51	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/03/18	ug/L	--	0.53	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/08/18	ug/L	2.6	--	<0.50	--	--	--	--	--	--
	05/17/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	06/07/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	06/21/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	07/05/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	07/19/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/02/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/16/18	ug/L	--	0.53	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/24/18	ug/L	5.6	--	0.50	--	--	--	--	--	--
	09/11/18	ug/L	--	0.53	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	09/20/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/05/18	ug/L	--	0.51	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/18/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/01/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/06/18	ug/L	6.0	--	<0.5	--	--	--	--	--	--
	11/15/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	12/04/18	ug/L	--	0.62	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	12/19/18	ug/L	--	0.58	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	01/03/19	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	01/24/19	ug/L	--	0.52	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/07/19	ug/L	--	0.62	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/13/19	ug/L	8.8	--	<0.5	--	--	--	--	--	--
	02/21/19	ug/L	--	0.66	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
1,1-Dichloroethane	06/22/05	ug/L	--	--	10	--	--	--	--	--	--
(5 ug/L MCL)	09/22/05	ug/L	--	--	3.0	--	--	--	--	--	--
	12/19/05	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/22/06	ug/L	--	--	1.9	--	--	--	--	--	--
	06/21/06	ug/L	--	--	<0.50	--	--	--	--	--	--
	12/11/06	ug/L	--	--	1.6	--	--	--	--	--	--
	03/14/07	ug/L	--	--	1.2	--	--	--	--	--	--
	06/22/07	ug/L	--	--	<0.50	--	--	--	--	--	--
	09/27/07	ug/L	--	--	3.8	--	--	--	--	--	--
	12/13/07	ug/L	--	--	16	--	--	--	--	--	--
	06/25/08	ug/L	--	--	9.5	--	--	--	--	--	--
	07/08/08	ug/L	47	--	8.5	--	23	--	17	<0.50	<0.50
	07/09/08	ug/L	54	--	9.2	--	29	--	18	<0.50	<0.50
	07/10/08	ug/L	38	--	6.1	--	21	--	11	<0.50	<0.50
	07/15/08	ug/L	42	--	7.0	--	22	7.0	11	<0.50	<0.50
	07/16/08	ug/L	47	--	7.2	--	28	--	14	<0.50	<0.50
	07/23/08	ug/L	40	--	5.2	--	23	--	9.0	<0.50	<0.50
	07/30/08	ug/L	41	--	5.5	--	18	--	9.9	<0.50	<0.50
	08/06/08	ug/L	32	--	4.2	--	17	--	14	<0.50	<0.50
	08/25/08	ug/L	21	--	3.0	--	11	--	6.4	<0.50	<0.50
	09/24/08	ug/L	15	--	2.4	--	8.0	--	3.5	<0.50	<0.50
	10/22/08	ug/L	13	--	2.7	--	8.1	--	4.5	<0.50	<0.50
	11/26/08	ug/L	11	--	2.9	--	8.3	--	4.5	0.75	<0.50
	02/25/09	ug/L	6.6	--	4.8	--	5.7	--	3.7	1.1	<0.50
	03/18/09	ug/L	7.7	--	1.8	--	4.4	--	2.8	2.2	<0.50
	04/29/09	ug/L	7.8	--	1.6	--	4.3	--	2.3	2.6	<0.50
	05/27/09	ug/L	8.4	--	3.4	--	5.5	--	4.0	4.0	0.60
	06/29/09	ug/L	7.4	--	2.2	--	4.5	--	3.1	4.3	1.1
	07/22/09	ug/L	8.4	--	3.2	--	5.8	--	3.5	5.4	2.1
	08/14/09	ug/L	8.8	--	2.2	--	5.1	--	3.2	5.0	2.7
	09/11/09	ug/L	8.3	--	3.1	--	5.8	--	2.9	4.8	3.4
	10/08/09	ug/L	9.2	--	2.0	--	5.1	--	3.8	5.4	4.1
	12/09/09	ug/L	1.7	--	9.2	--	4.9	--	3.2	4.6	3.8
	03/05/10	ug/L	2.9	--	6.7	--	--	--	--	--	--
	03/22/10	ug/L	--	--	--	0.92	--	--	0.62	<0.50	<0.50
	03/23/10	ug/L	--	--	--	0.94	--	--	0.67	<0.50	<0.50
	03/24/10	ug/L	--	--	--	0.85	--	--	0.62	<0.50	<0.50
	03/25/10	ug/L	--	--	--	0.79	--	--	0.52	<0.50	<0.50
	03/26/10	ug/L	--	--	--	0.83	--	--	0.66	<0.50	<0.50
	04/01/10	ug/L	--	--	--	0.88	--	--	<0.50	<0.50	<0.50
	04/09/10	ug/L	--	--	--	0.90	--	--	0.77	<0.50	<0.50
	04/13/10	ug/L	--	--	--	1.4	--	--	0.85	<0.50	<0.50
	04/23/10	ug/L	--	--	--	1.0	--	--	0.80	<0.50	<0.50
	05/25/10	ug/L	--	--	--	1.1	--	--	0.87	<0.50	<0.50
	06/10/10	ug/L	--	--	--	1.4	--	--	0.99	<0.50	<0.50
	06/11/10	ug/L	8.6	--	9.7	--	--	--	--	--	--
	07/08/10	ug/L	--	--	--	1.5	--	--	1.2	0.59	<0.50
	08/02/10	ug/L	--	--	--	1.3	--	--	1.0	0.82	<0.50
	09/02/10	ug/L	--	--	--	1.4	--	--	1.0	0.98	0.56
	09/08/10	ug/L	12	--	10	--	--	--	--	--	--
	10/07/10	ug/L	--	--	--	1.4	--	--	1.1	1.1	0.7
	11/11/10	ug/L	--	--	--	1.1	--	--	0.97	1.0	0.86

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	12/06/10	ug/L	25	--	--	--	--	--	--	--	--
	12/07/10	ug/L	--	--	7.5	1.0	--	--	0.81	1.0	0.89
	01/13/11	ug/L	--	--	--	1.0	--	--	0.73	0.99	1.0
	02/03/11	ug/L	--	--	--	0.88	--	--	0.77	0.83	0.94
	03/02/11	ug/L	--	--	--	0.71	--	--	<0.50	0.70	0.83
	03/24/11	ug/L	38	--	2.6	--	--	--	--	--	--
	04/01/11	ug/L	--	--	--	0.76	--	--	0.53	0.69	0.82
	05/04/11	ug/L	--	--	--	0.79	--	--	0.60	0.75	0.82
	06/07/11	ug/L	--	--	--	0.65	--	--	<0.50	0.59	0.70
	06/23/11	ug/L	33	--	2.1	--	--	--	--	--	--
	07/02/11	ug/L	--	--	--	0.73	--	--	0.58	0.71	0.80
	08/01/11	ug/L	--	--	--	0.91	--	--	0.66	0.72	0.81
	08/02/11	ug/L	34	--	3.1	--	--	--	--	--	--
	09/09/11	ug/L	--	--	--	0.82	--	--	0.61	0.64	0.72
	10/17/11	ug/L	--	--	--	0.62	--	--	<0.50	0.52	0.56
	11/01/11	ug/L	29	--	1.6	0.69	--	--	0.52	0.55	0.56
	12/07/11	ug/L	43	--	--	0.62	12	--	8.4	2.6	0.71
	01/06/12	ug/L	15	--	--	0.53	4	--	3.9	3.8	3.2
	02/06/12	ug/L	--	--	0.85	--	--	--	--	--	--
	02/08/12	ug/L	8.5	--	--	0.53	2.8	--	2.0	2.4	2.5
	03/09/12	ug/L	8.6	--	--	<0.50	2.5	--	2.0	2.2	2.3
	04/16/12	ug/L	--	--	--	<0.50	--	--	<0.50	0.73	1.2
	05/01/12	ug/L	--	--	--	<0.50	--	--	<0.50	0.56	0.89
	05/07/12	ug/L	6.5	--	<0.50	--	--	--	--	--	--
	06/08/12	ug/L	--	--	--	0.62	--	--	<0.50	0.64	0.83
	07/11/12	ug/L	--	--	--	0.53	--	--	<0.50	0.53	0.63
	08/03/12	ug/L	--	--	--	0.55	--	--	<0.50	0.63	0.75
	08/06/12	ug/L	10	--	1.2	--	--	--	--	--	--
	09/06/12	ug/L	--	--	--	0.58	--	--	<0.50	0.51	0.61
	10/15/12	ug/L	--	--	--	0.74	--	--	0.52	0.50	0.58
	11/05/12	ug/L	24	--	1.8	0.52	--	--	<0.50	<0.50	<0.50
	12/10/12	ug/L	--	--	--	0.68	--	--	<0.50	0.50	0.56
	01/04/13	ug/L	--	--	--	0.6	--	--	<0.50	<0.50	<0.50
	02/04/13	ug/L	33	--	1.9	--	--	--	--	--	--
	02/09/13	ug/L	--	--	--	0.52	--	--	<0.50	<0.50	0.53
	03/09/13	ug/L	--	--	--	--	--	--	--	--	<5.0
	03/09/13	ug/L	--	--	--	0.60	--	--	<0.50	<0.50	<0.50
	04/15/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	05/07/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	<0.50
	05/13/13	ug/L	23	--	0.78	--	--	--	--	--	--
	06/13/13	ug/L	--	--	--	0.64	--	--	<0.50	<0.50	<0.50
	07/02/13	ug/L	--	--	--	0.72	--	--	0.53	0.5	<0.50
	08/10/13	ug/L	--	--	--	0.76	--	--	0.54	0.52	0.53
	08/12/13	ug/L	21	--	2.9	--	--	--	--	--	--
	09/03/13	ug/L	--	--	--	<0.50	--	--	<0.50	<0.50	0.57
	10/05/13	ug/L	--	--	--	1.0	--	--	0.72	0.76	0.69
	11/01/13	ug/L	--	--	--	0.64	--	--	<0.50	<0.50	<0.50
	11/11/13	ug/L	21	--	2.8	--	--	--	--	--	--
	12/11/13	ug/L	--	--	--	<0.50	--	--	<0.50	0.58	0.58
	01/17/14	ug/L	--	--	--	0.55	--	--	<0.50	<0.50	<0.50
	02/03/14	ug/L	29	--	3.5	--	--	--	--	--	--
	02/11/14	ug/L	--	--	--	0.63	--	--	<0.50	0.50	<0.50
	03/04/14	ug/L	--	--	--	0.59	--	--	<0.50	<0.50	<0.50
	05/20/14	ug/L	--	--	7.5	--	--	--	--	--	--
	07/30/14	ug/L	--	--	--	--	--	<0.50	<0.50	--	0.52
	08/01/14	ug/L	--	--	--	--	<0.50	--	<0.50	0.51	0.62

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	08/04/14	ug/L	--	--	--	--	<0.50	--	<0.50	0.59	0.7
	08/05/14	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	0.7
	08/06/14	ug/L	--	--	--	--	<0.50	--	<0.50	0.59	0.68
	08/07/14	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	0.51
	08/08/14	ug/L	--	--	--	--	<0.50	--	<0.50	0.52	0.62
	08/15/14	ug/L	--	--	--	--	<0.50	--	<0.50	0.57	0.63
	08/18/14	ug/L	18	1.9	14	<0.50	--	--	--	--	--
	08/22/14	ug/L	--	--	--	--	<0.50	--	<0.50	0.68	0.71
	08/29/14	ug/L	--	--	--	--	<0.50	--	<0.50	0.68	0.82
	11/03/14	ug/L	--	2.6	--	<0.50	0.65	--	0.61	<0.50	<0.50
	11/04/14	ug/L	4.6	--	16	--	--	--	--	--	--
	12/18/14	ug/L	--	5.0	--	<0.50	1.2	--	<0.50	<0.50	<0.50
	01/19/15	ug/L	--	2.5	--	<0.50	0.70	--	0.50	<0.50	<0.50
	02/02/15	ug/L	17	--	11	--	--	--	--	--	--
	02/13/15	ug/L	--	4.4	--	<0.50	1.2	--	0.66	<0.50	<0.50
	03/06/15	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/02/15	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/01/15	ug/L	--	0.95	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/12/15	ug/L	10	--	1.6	--	--	--	--	--	--
	06/05/15	ug/L	--	0.98	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/14/15	ug/L	--	0.99	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/06/15	ug/L	--	1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/11/15	ug/L	8.4	--	3.6	--	--	--	--	--	--
	09/03/15	ug/L	--	0.94	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/15	ug/L	--	1.2	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/02/15	ug/L	7.3	--	4.2	--	--	--	--	--	--
	11/05/15	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/03/15	ug/L	--	3.7	--	<0.50	<0.50	--	<0.50	0.56	0.69
	12/11/15	ug/L	--	5.3	--	<0.50	1.3	--	0.75	0.62	0.86
	01/07/16	ug/L	--	4.3	--	0.50	1.1	--	0.72	0.62	0.75
	01/21/16	ug/L	--	4	--	<0.50	1.1	--	0.65	0.7	0.84
	02/01/16	ug/L	25	4.6	--	<0.50	1.3	--	0.85	0.81	0.78
	02/18/16	ug/L	--	4.3	--	<0.50	1.3	--	0.82	0.79	0.91
	03/03/16	ug/L	--	3.0	--	<0.50	0.9	--	0.51	0.53	0.54
	03/17/16	ug/L	--	3.9	--	<0.50	1.0	--	0.64	0.65	0.71
	04/05/16	ug/L	--	3.9	--	<0.50	1.2	--	0.65	0.62	0.62
	04/21/16	ug/L	--	3.3	--	<0.50	1.1	--	0.63	0.67	0.68
	05/02/16	ug/L	22	--	3.3	--	--	--	--	--	--
	05/05/16	ug/L	--	3.6	--	<0.50	1.0	--	0.68	<0.50	<0.50
	05/19/16	ug/L	--	3.8	--	<0.50	1.0	--	0.8	<0.50	<0.50
	06/01/16	ug/L	--	3.5	--	<0.50	0.95	--	0.69	<0.50	<0.50
	06/16/16	ug/L	--	3.2	--	<0.50	0.94	--	0.71	<0.50	<0.50
	07/07/16	ug/L	--	3.3	--	<0.50	0.96	--	0.61	<0.50	<0.50
	07/21/16	ug/L	--	4.1	--	<0.50	1.1	--	0.71	<0.50	<0.50
	08/01/16	ug/L	27	--	5.6	--	--	--	--	--	--
	08/04/16	ug/L	--	3.3	--	<0.50	1.0	--	0.57	0.51	<0.50
	08/18/16	ug/L	--	2.6	--	<0.50	0.69	--	<0.50	<0.50	<0.50
	09/08/16	ug/L	--	2.9	--	<0.50	0.74	--	<0.50	0.58	0.53
	09/15/16	ug/L	--	2.4	--	<0.50	0.76	--	<0.50	0.58	0.52
	10/06/16	ug/L	--	2.7	--	<0.50	0.87	--	0.58	0.62	0.73
	10/20/16	ug/L	--	2.2	--	<0.50	0.73	--	<0.50	0.54	0.59
	11/01/16	ug/L	--	2.6	--	<0.50	0.85	--	0.57	0.62	0.61
	11/08/16	ug/L	24	--	4.5	--	--	--	--	--	--
	11/17/16	ug/L	--	3.1	--	<0.50	0.83	--	0.56	0.61	0.67
	12/01/16	ug/L	--	2.2	--	<0.50	0.65	--	<0.50	0.61	0.52
	12/15/16	ug/L	--	3.1	--	<0.50	--	--	--	--	--

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	12/16/16	ug/L	--	--	--	--	1.1	--	<0.50	0.56	0.65
	01/06/17	ug/L	--	3.5	--	<0.50	1.1	--	0.59	0.65	0.66
	01/26/17	ug/L	--	3.1	--	<0.50	1.1	--	<0.50	<0.50	<0.50
	02/03/17	ug/L	--	--	--	<0.50	<0.50	--	<0.50	0.51	0.58
	02/06/17	ug/L	32	--	1.1	--	--	--	--	--	--
	02/09/17	ug/L	--	2.9	--	--	--	--	--	--	--
	02/16/17	ug/L	--	2.9	--	<0.50	0.79	--	<0.50	<0.50	0.54
	03/02/17	ug/L	--	2.5	--	<0.50	0.81	--	0.52	<0.50	0.53
	03/16/17	ug/L	--	2.4	--	<0.50	0.82	--	<0.50	<0.50	<0.50
	04/06/17	ug/L	--	2.3	--	<0.50	0.61	--	<0.50	<0.50	<0.50
	04/20/17	ug/L	--	2.4	--	<0.50	0.70	--	<0.50	<0.50	<0.50
	05/04/17	ug/L	--	2.7	--	<0.50	0.67	--	<0.50	<0.50	<0.50
	05/15/17	ug/L	15	--	2.0	--	--	--	--	--	--
	05/18/17	ug/L	--	2.0	--	<0.50	0.50	--	0.25 J	<0.50	<0.50
	06/01/17	ug/L	--	2.4	--	<0.50	0.63	--	<0.50	<0.50	<0.50
	06/15/17	ug/L	--	1.9	--	<0.50	0.50	--	<0.50	<0.50	<0.50
	07/06/17	ug/L	--	2.2	--	<0.50	0.61	--	<0.50	<0.50	<0.50
	07/20/17	ug/L	--	2.3	--	<0.50	0.60	--	<0.50	<0.50	<0.50
	08/03/17	ug/L	--	2.8	--	<0.50	0.71	--	<0.50	<0.50	<0.50
	08/07/17	ug/L	24	--	2.2	--	--	--	--	--	--
	08/17/17	ug/L	--	2.3	--	<0.50	0.61	--	<0.50	<0.50	<0.50
	09/01/17	ug/L	--	2.0	--	<0.50	0.56	--	<0.50	<0.50	<0.50
	09/14/17	ug/L	--	1.7	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/17	ug/L	--	1.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/19/17	ug/L	--	1.6	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/06/17	ug/L	15	0.77	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/20/17	ug/L	--	1.3	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/04/17	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/14/17	ug/L	--	1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/04/18	ug/L	--	1.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/18/18	ug/L	--	0.82	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/01/18	ug/L	--	1.7	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/15/18	ug/L	--	1.4	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/27/18	ug/L	8.0	--	--	--	--	--	--	--	--
	03/15/18	ug/L	--	1.6	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	03/19/18	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/29/18	ug/L	--	1.4	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/05/18	ug/L	--	1.3	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/19/18	ug/L	--	1.3	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/03/18	ug/L	--	1.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/08/18	ug/L	9.2	--	0.64	--	--	--	--	--	--
	05/17/18	ug/L	--	1.4	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	06/07/18	ug/L	--	1.3	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	06/21/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	07/05/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	07/19/18	ug/L	--	0.85	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/02/18	ug/L	--	1.3	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/16/18	ug/L	--	1.4	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/24/18	ug/L	14	--	1.2	--	--	--	--	--	--
	09/11/18	ug/L	--	1.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	09/20/18	ug/L	--	1.4	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/05/18	ug/L	--	1.4	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/18/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/01/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/06/18	ug/L	13	--	1.3	--	--	--	--	--	--
	11/15/18	ug/L	--	1.3	--	<0.5	<0.5	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	12/04/18	ug/L	--	1.8	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	12/19/18	ug/L	--	1.6	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	01/03/19	ug/L	--	1.3	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	01/24/19	ug/L	--	1.7	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/07/19	ug/L	--	1.7	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/13/19	ug/L	16	--	<0.5	--	--	--	--	--	--
	02/21/19	ug/L	--	1.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
1,1-Dichloroethene	06/22/05	ug/L	--	--	750	--	--	--	--	--	--
(6 ug/L MCL)	09/22/05	ug/L	--	--	210 E	--	--	--	--	--	--
	12/19/05	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/22/06	ug/L	--	--	1.0	--	--	--	--	--	--
	06/21/06	ug/L	--	--	4.2	--	--	--	--	--	--
	12/11/06	ug/L	--	--	4.3 E	--	--	--	--	--	--
	03/14/07	ug/L	--	--	90	--	--	--	--	--	--
	06/22/07	ug/L	--	--	24	--	--	--	--	--	--
	09/27/07	ug/L	--	--	<0.50	--	--	--	--	--	--
	12/13/07	ug/L	--	--	820	--	--	--	--	--	--
	06/25/08	ug/L	--	--	1,600 E	--	--	--	--	--	--
	07/08/08	ug/L	3500	--	720	--	2100	--	46.00	<0.5	<0.50
	07/09/08	ug/L	4200	--	820	--	3000	--	5.0	0.50	<0.50
	07/10/08	ug/L	3800	--	580	--	2000	--	0.83	<0.5	<0.50
	07/15/08	ug/L	3500	--	630	--	2100	400	<0.5	<0.5	<0.50
	07/16/08	ug/L	4800	--	1000	--	2800	--	0.87	<0.5	<0.50
	07/23/08	ug/L	3500	--	520	--	2100	--	0.73	<0.5	<0.50
	07/30/08	ug/L	3400	--	360	--	1400	--	1.6	<0.5	<0.50
	08/06/08	ug/L	1500	--	340	--	1500	--	12.00	<0.5	<0.50
	08/25/08	ug/L	1800	--	230	--	1100	--	25.00	<0.5	<0.50
	09/24/08	ug/L	1200	--	180	--	610	--	0.65	<0.5	<0.50
	10/22/08	ug/L	1200	--	200	--	730	--	11.00	<0.5	<0.50
	11/26/08	ug/L	1100	--	190	--	730	--	2.50	<0.5	<0.50
	02/25/09	ug/L	720	--	360	--	570	--	2.50	<0.5	<0.50
	03/18/09	ug/L	900	--	160	--	460	--	<0.5	<0.5	<0.50
	04/29/09	ug/L	860	--	150	--	470	--	<0.5	<0.5	<0.50
	05/27/09	ug/L	940	--	320	--	590	--	<0.5	<0.5	<0.50
	06/29/09	ug/L	860	--	200	--	510	--	<0.5	<0.5	<0.50
	07/22/09	ug/L	870	--	260	--	580	--	<0.5	<0.5	<0.50
	08/14/09	ug/L	900	--	190	--	540	--	<0.5	<0.5	<0.50
	09/11/09	ug/L	1100	--	280	--	610	--	<0.5	<0.5	<0.50
	10/08/09	ug/L	830	--	150	--	600	--	<0.5	<0.5	<0.50
	12/09/09	ug/L	200	--	720	--	400	--	1.8	<0.5	<0.50
	03/05/10	ug/L	370	--	500	--	--	--	--	--	--
	03/22/10	ug/L	--	--	--	82	--	--	<0.5	<0.5	<0.5
	03/23/10	ug/L	--	--	--	82	--	--	<0.5	<0.5	<0.5
	03/24/10	ug/L	--	--	--	74	--	--	<0.5	<0.5	<0.5
	03/25/10	ug/L	--	--	--	70	--	--	<0.5	<0.5	<0.5
	03/26/10	ug/L	--	--	--	76	--	--	<0.5	<0.5	<0.5
	04/01/10	ug/L	--	--	--	81	--	--	<0.5	<0.5	<0.5
	04/09/10	ug/L	--	--	--	85	--	--	<0.5	<0.5	<0.5
	04/13/10	ug/L	--	--	--	120	--	--	<0.5	<0.5	<0.5
	04/23/10	ug/L	--	--	--	91	--	--	<0.5	<0.5	<0.5
	05/25/10	ug/L	--	--	--	100	--	--	<0.19	<0.19	<0.19
	06/10/10	ug/L	--	--	--	120	--	--	<0.5	<0.5	<0.5
	06/11/10	ug/L	800	--	720	--	--	--	--	--	--
	07/08/10	ug/L	--	--	--	160	--	--	<0.5	<0.5	<0.5
	08/02/10	ug/L	--	--	--	150	--	--	<0.5	<0.5	<0.5
	09/02/10	ug/L	--	--	--	160	--	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	09/08/10	ug/L	1000	--	720	--	--	--	--	--	--
	10/07/10	ug/L	--	--	--	140	--	--	<0.5	<0.5	<0.5
	11/11/10	ug/L	--	--	--	140	--	--	<0.5	<0.5	<0.5
	12/06/10	ug/L	2300	--	--	--	--	--	--	--	--
	12/07/10	ug/L	--	--	600	130	--	--	<0.5	<0.5	<0.5
	01/13/11	ug/L	--	--	--	99	--	--	<0.5	<0.5	<0.5
	02/03/11	ug/L	--	--	--	83	--	--	<0.5	<0.5	<0.5
	03/02/11	ug/L	--	--	--	77	--	--	0.50	<0.5	<0.5
	03/24/11	ug/L	2800	--	200	--	--	--	--	--	--
	04/01/11	ug/L	--	--	--	82	--	--	<0.5	<0.5	<0.5
	05/04/11	ug/L	--	--	--	83	--	--	<0.5	<0.5	<0.5
	06/07/11	ug/L	--	--	--	67	--	--	0.54	<0.5	<0.5
	06/23/11	ug/L	2700	--	180	--	--	--	--	--	--
	07/02/11	ug/L	--	--	--	87	--	--	<0.5	<0.5	<0.5
	08/01/11	ug/L	--	--	--	75	--	--	<0.5	<0.5	<0.5
	08/02/11	ug/L	2400	--	370	--	--	--	--	--	--
	09/09/11	ug/L	--	--	--	90	--	--	<0.5	<0.5	<0.5
	10/17/11	ug/L	--	--	--	67	--	--	<0.5	<0.5	<0.5
	11/01/11	ug/L	1600	--	82	55	--	--	<0.5	<0.5	<0.5
	12/07/11	ug/L	3200	--	--	62	850	--	1.60	<0.5	<0.5
	01/06/12	ug/L	1400	--	--	85	450	--	<0.5	<0.5	<0.5
	02/06/12	ug/L	--	--	59	--	--	--	--	--	--
	02/08/12	ug/L	520	--	--	54	300	--	<0.5	<0.5	<0.5
	03/09/12	ug/L	860	--	--	59	210	--	<0.5	<0.5	<0.5
	04/16/12	ug/L	--	--	--	45	--	--	<0.5	<0.5	<0.5
	05/01/12	ug/L	--	--	--	37	--	--	<0.5	<0.5	<0.5
	05/07/12	ug/L	490	--	18	--	--	--	--	--	--
	06/08/12	ug/L	--	--	--	67	--	--	<0.5	<0.5	<0.5
	07/11/12	ug/L	--	--	--	64	--	--	<0.5	<0.5	0.75
	08/03/12	ug/L	--	--	--	67	--	--	<0.5	<0.5	<0.5
	08/06/12	ug/L	1300	--	94	--	--	--	--	--	--
	09/06/12	ug/L	--	--	--	62	--	--	<0.5	<0.5	<0.5
	10/15/12	ug/L	--	--	--	75	--	--	<0.5	<0.5	<0.5
	11/05/12	ug/L	2000	--	190	63	--	--	<0.5	<0.5	<0.5
	12/10/12	ug/L	--	--	--	72	--	--	<0.5	<0.5	<0.5
	01/04/13	ug/L	--	--	--	63	--	--	<0.5	<0.5	<0.5
	02/04/13	ug/L	1900	--	130	--	--	--	--	--	--
	02/09/13	ug/L	--	--	--	39	--	--	<0.5	<0.5	<0.5
	03/09/13	ug/L	--	--	--	50	--	--	<0.5	<0.5	<0.5
	04/15/13	ug/L	--	--	--	32	--	--	<0.5	<0.5	<0.5
	05/07/13	ug/L	--	--	--	46	--	--	<0.5	<0.5	<0.5
	05/13/13	ug/L	1600	--	57	--	--	--	--	--	--
	05/29/13	ug/L	--	--	--	--	--	--	--	--	<0.5
	06/13/13	ug/L	--	--	--	54	--	--	<0.5	<0.5	<0.5
	07/02/13	ug/L	--	--	--	64	--	--	<0.5	<0.5	<0.5
	08/10/13	ug/L	--	--	--	80	--	--	<0.5	<0.5	<0.5
	08/12/13	ug/L	1500	--	220	--	--	--	--	--	--
	09/03/13	ug/L	--	--	--	26	--	--	<0.5	<0.5	<0.5
	10/05/13	ug/L	--	--	--	75	--	--	0.92	<0.5	<0.5
	11/01/13	ug/L	--	--	--	54	--	--	<0.5	<0.5	<0.5
	11/11/13	ug/L	1000	--	160	--	--	--	--	--	--
	12/11/13	ug/L	--	--	--	49	--	--	<0.5	<0.5	<0.5
	01/17/14	ug/L	--	--	--	34	--	--	1.30	<0.5	<0.5
	02/03/14	ug/L	1300	--	190	--	--	--	--	--	--
	02/11/14	ug/L	--	--	--	49	--	--	<0.5	<0.5	<0.5
	03/04/14	ug/L	--	--	--	57	--	--	<0.5	<0.5	<0.5

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HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	05/20/14	ug/L	--	--	500	--	--	--	--	--	--
	07/30/14	ug/L	--	--	--	--	--	27	<0.5	--	<0.5
	08/01/14	ug/L	--	--	--	--	21	--	<0.5	<0.5	<0.5
	08/04/14	ug/L	--	--	--	--	30	--	<0.5	<0.5	<0.5
	08/05/14	ug/L	--	--	--	--	28	--	<0.5	<0.5	<0.5
	08/06/14	ug/L	--	--	--	--	28	--	<0.5	<0.5	<0.5
	08/07/14	ug/L	--	--	--	--	30	--	0.54	<0.5	<0.5
	08/08/14	ug/L	--	--	--	--	23	--	<0.5	<0.5	<0.5
	08/15/14	ug/L	--	--	--	--	36	--	2.20	0.57	<0.5
	08/18/14	ug/L	1200	--	950	--	--	--	--	--	--
	08/22/14	ug/L	--	--	--	--	23	--	<0.5	<0.5	<0.5
	08/29/14	ug/L	--	--	--	--	34	--	2.80	0.61	<0.5
	09/15/14	ug/L	--	--	--	--	--	--	--	--	<0.5
	11/03/14	ug/L	--	240	--	22	66	--	0.87	<0.5	<0.5
	11/04/14	ug/L	350	--	960	--	--	--	--	--	--
	12/11/14	ug/L	--	--	--	--	--	--	--	--	<0.5
	12/18/14	ug/L	--	580	--	24	120	--	<0.50	<0.50	<0.50
	01/19/15	ug/L	--	200	--	25	55	--	<0.50	<0.50	<0.50
	02/02/15	ug/L	1100	--	610	--	--	--	--	--	--
	02/13/15	ug/L	--	460	--	20	110	--	<0.50	<0.50	<0.50
	03/06/15	ug/L	--	300	--	22	88	--	<0.50	<0.50	<0.50
	04/02/15	ug/L	--	290	--	30	62	--	<0.50	<0.50	<0.50
	05/01/15	ug/L	--	360	--	42	97	--	<0.50	<0.50	<0.50
	05/12/15	ug/L	1800	--	240	--	--	--	--	--	--
	06/05/15	ug/L	--	370	--	48	110	--	<0.50	<0.50	<0.50
	07/14/15	ug/L	--	360	--	59	110	--	<0.50	<0.50	<0.50
	08/06/15	ug/L	--	330	--	48	120	--	<0.50	<0.50	<0.50
	08/11/15	ug/L	1300	--	560	--	--	--	--	--	--
	09/03/15	ug/L	--	390	--	53	110	--	<0.50	<0.50	<0.50
	10/06/15	ug/L	--	360	--	40	100	--	<0.50	<0.50	<0.50
	11/02/15	ug/L	920	--	400	--	--	--	--	--	--
	11/05/15	ug/L	--	350	--	38	66	--	<0.50	<0.50	<0.50
	12/03/15	ug/L	--	450	--	45	48	--	<0.50	<0.50	<0.50
	12/11/15	ug/L	--	480	--	53	110	--	<0.50	<0.50	<0.50
	01/07/16	ug/L	--	440	--	49	120	--	<0.50	<0.50	<0.50
	01/21/16	ug/L	--	410	--	43	110	--	<0.50	<0.50	<0.50
	02/01/16	ug/L	1700	500	--	48	130	--	<0.50	<0.50	<0.50
	02/18/16	ug/L	--	290	--	35	86	--	<0.50	<0.50	<0.50
	03/03/16	ug/L	--	330	--	34	81	--	<0.50	<0.50	<0.50
	03/17/16	ug/L	--	420	--	35	120	--	<0.50	<0.50	<0.50
	04/05/16	ug/L	--	330	--	35	98	--	<0.50	<0.50	<0.50
	04/21/16	ug/L	--	340	--	31	95	--	<0.50	<0.50	<0.50
	05/02/16	ug/L	1400	--	250	--	--	--	--	--	--
	05/05/16	ug/L	--	380	--	36	97	--	<0.50	<0.50	<0.50
	05/19/16	ug/L	--	430	--	41	110	--	<0.50	<0.50	<0.50
	06/01/16	ug/L	--	250	--	31	71	--	<0.50	<0.50	<0.50
	06/16/16	ug/L	--	240	--	36	75	--	<0.50	<0.50	<0.50
	07/07/16	ug/L	--	310	--	30	88	--	<0.50	<0.50	<0.50
	07/21/16	ug/L	--	410	--	38	84	--	<0.50	<0.50	<0.50
	08/01/16	ug/L	1500	--	430	--	--	--	--	--	--
	08/04/16	ug/L	--	250	--	25	79	--	<0.50	<0.50	<0.50
	08/18/16	ug/L	--	250	--	26	63	--	<0.50	<0.50	<0.50
	09/08/16	ug/L	--	340	--	31	83	--	<0.50	<0.50	<0.50
	09/15/16	ug/L	--	250	--	27	70	--	<0.50	<0.50	<0.50
	10/06/16	ug/L	--	280	--	31	79	--	<0.50	<0.50	<0.50
	10/20/16	ug/L	--	240	--	23	73	--	<0.50	<0.50	<0.50

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	11/01/16	ug/L	--	360	--	37	82	--	<0.50	<0.50	<0.50
	11/08/16	ug/L	1400	--	300	--	--	--	--	--	--
	11/17/16	ug/L	--	260	--	25	74	--	<0.50	<0.50	<0.50
	12/01/16	ug/L	--	220	--	20	67	--	<0.50	<0.50	<0.50
	12/15/16	ug/L	--	340	--	20	--	--	--	--	--
	12/16/16	ug/L	--	--	--	--	85	--	<0.50	<0.50	<0.50
	01/06/17	ug/L	--	260	--	17	85	--	<0.50	<0.50	<0.50
	01/26/17	ug/L	--	330	--	9.4	95	--	<0.50	<0.50	<0.50
	02/03/17	ug/L	--	--	--	16	15	--	<0.50	<0.50	<0.50
	02/06/17	ug/L	2300	--	75	--	--	--	--	--	--
	02/09/17	ug/L	--	320	--	--	--	--	--	--	--
	02/16/17	ug/L	--	220	--	16	82	--	<0.50	<0.50	<0.50
	03/02/17	ug/L	--	250	--	14	87	--	<0.50	<0.50	<0.50
	03/16/17	ug/L	--	250	--	4.6	88	--	<0.50	<0.50	<0.50
	04/06/17	ug/L	--	190	--	10	55	--	<0.50	<0.50	<0.50
	04/20/17	ug/L	--	220	--	12	58	--	<0.50	<0.50	<0.50
	05/04/17	ug/L	--	240	--	15	60	--	<0.50	<0.50	<0.50
	05/15/17	ug/L	1200	--	120	--	--	--	--	--	--
	05/18/17	ug/L	--	210	--	14	51	--	<0.50	<0.50	<0.50
	06/01/17	ug/L	--	220	--	18	58	--	<0.50	<0.50	<0.50
	06/15/17	ug/L	--	190	--	16	46	--	<0.50	<0.50	<0.50
	07/06/17	ug/L	--	230	--	19	69	--	<0.50	<0.50	<0.50
	07/20/17	ug/L	--	240	--	19	76	--	<0.50	<0.50	<0.50
	08/03/17	ug/L	--	250	--	16	67	--	<0.50	<0.50	<0.50
	08/07/17	ug/L	1700	--	110	--	--	--	--	--	--
	08/17/17	ug/L	--	160	--	14	59	--	<0.50	<0.50	<0.50
	09/01/17	ug/L	--	200	--	11	53	--	<0.50	<0.50	<0.50
	09/14/17	ug/L	--	160	--	8.5	47	--	<0.50	<0.50	<0.50
	10/06/17	ug/L	--	140	--	7.8	39	--	<0.50	<0.50	<0.50
	10/19/17	ug/L	--	130	--	8.2	39	--	<0.50	<0.50	<0.50
	11/06/17	ug/L	1500	110	2.4	5.8	23	--	<0.50	<0.50	<0.50
	11/20/17	ug/L	--	120	--	5.7	25	--	<0.50	<0.50	<0.50
	12/04/17	ug/L	--	110	--	5.4	26	--	<0.50	<0.50	<0.50
	12/14/17	ug/L	--	99	--	5.8	24	--	<0.50	<0.50	<0.50
	01/04/18	ug/L	--	140	--	8.8	30	--	<0.50	<0.50	<0.50
	01/18/18	ug/L	--	85	--	5.4	22	--	<0.50	<0.50	<0.50
	02/01/18	ug/L	--	170	--	10	38	--	<0.50	<0.50	<0.50
	02/15/18	ug/L	--	140	--	8.7	28	--	<0.50	<0.50	<0.50
	02/27/08	ug/L	740	--	--	--	--	--	--	--	--
	03/15/18	ug/L	--	110	--	2.3	23	--	<0.5	<0.5	<0.5
	03/19/18	ug/L	--	--	40	--	--	--	--	--	--
	03/29/18	ug/L	--	120	--	8.0	29	--	<0.5	<0.5	<0.5
	04/05/18	ug/L	--	120	--	8.2	27	--	<0.5	<0.5	<0.5
	04/19/18	ug/L	--	120	--	9.3	26	--	<0.5	<0.5	<0.5
	05/03/18	ug/L	--	100	--	10	27	--	<0.5	<0.5	<0.5
	05/08/18	ug/L	710	--	47	--	--	--	--	--	--
	05/17/18	ug/L	--	120	--	12	34	--	<0.5	<0.5	<0.5
	06/07/18	ug/L	--	130	--	12	30	--	<0.5	<0.5	<0.5
	06/21/18	ug/L	--	110	--	13	32	--	<0.5	<0.5	<0.5
	07/05/18	ug/L	--	110	--	12	31	--	<0.5	<0.5	<0.5
	07/19/18	ug/L	--	170	--	16	37	--	<0.5	<0.5	<0.5
	08/02/18	ug/L	--	110	--	12	31	--	<0.5	<0.5	<0.5
	08/16/18	ug/L	--	120	--	12	32	--	<0.5	<0.5	<0.5
	08/24/18	ug/L	920	--	85	--	--	--	--	--	--
	09/11/18	ug/L	--	110	--	13	34	--	<0.5	<0.5	<0.5
	09/20/18	ug/L	--	120	--	12	35	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	10/05/18	ug/L	--	110	--	11	33	--	<0.5	<0.5	<0.5
	10/18/18	ug/L	--	--	--	11	11	--	<0.5	<0.5	<0.5
	11/01/18	ug/L	--	--	--	12	12	--	<0.5	<0.5	<0.5
	11/06/18	ug/L	880	--	81	--	--	--	--	--	--
	11/15/18	ug/L	--	120	--	17	52	--	<0.5	<0.5	<0.5
	12/04/18	ug/L	--	150	--	16	61	--	<0.5	<0.5	<0.5
	12/19/18	ug/L	--	130	--	11	40	--	<0.5	<0.5	<0.5
	01/03/19	ug/L	--	100	--	10	36	--	<0.5	<0.5	<0.5
	01/24/19	ug/L	--	150	--	9.8	42	--	<0.5	<0.5	<0.5
	02/07/19	ug/L	--	150	--	8.8	44	--	<0.5	<0.5	<0.5
	02/13/19	ug/L	840	--	29	--	--	--	--	--	--
	02/21/19	ug/L	--	140	--	9.8	41	--	<0.5	<0.5	<0.5
1,2-Dichloroethane	06/22/05	ug/L	--	--	2.6	--	--	--	--	--	--
(0.5 ug/L MCL)	09/22/05	ug/L	--	--	<0.5	--	--	--	--	--	--
	12/19/05	ug/L	--	--	<0.5	--	--	--	--	--	--
	03/22/06	ug/L	--	--	<0.5	--	--	--	--	--	--
	06/21/06	ug/L	--	--	<0.5	--	--	--	--	--	--
	12/11/06	ug/L	--	--	<0.5	--	--	--	--	--	--
	03/14/07	ug/L	--	--	<0.50	--	--	--	--	--	--
	06/22/07	ug/L	--	--	<0.50	--	--	--	--	--	--
	09/27/07	ug/L	--	--	0.9	--	--	--	--	--	--
	12/13/07	ug/L	--	--	4.0	--	--	--	--	--	--
	06/25/08	ug/L	--	--	2.2	--	--	--	--	--	--
	07/08/08	ug/L	<10	--	<2.5	--	3.8	--	2.7	<0.5	<0.50
	07/09/08	ug/L	<10	--	1.9	--	<5	--	2.4	<0.5	<0.50
	07/10/08	ug/L	5.2	--	1.5	--	3.1	--	1.4	<0.5	<0.50
	07/15/08	ug/L	<5.0	--	1.8	--	<5	--	1.5	<0.5	<0.50
	07/16/08	ug/L	5.5	--	1.7	--	<5	--	1.5	<0.5	<0.50
	07/23/08	ug/L	<10	--	1.2	--	<5	--	1.2	<0.5	<0.50
	07/30/08	ug/L	<10	--	1.1	--	<5	--	1.3	<0.5	<0.50
	08/06/08	ug/L	<5.0	--	<1.0	--	<5	--	2.1	<0.5	<0.50
	08/25/08	ug/L	<5.0	--	0.62	--	<2.5	--	0.79	<0.5	<0.50
	09/24/08	ug/L	<2.5	--	0.57	--	<2.5	--	0.51	<0.5	<0.50
	10/22/08	ug/L	<2.5	--	0.50	--	<1	--	<0.5	<0.5	<0.50
	11/26/08	ug/L	<2.5	--	0.65	--	1.0	--	0.62	<0.5	<0.50
	02/25/09	ug/L	<2.5	--	0.93	--	<1	--	0.50	<0.5	<0.50
	03/18/09	ug/L	<2.5	--	<0.5	--	<1	--	<0.5	<0.5	<0.50
	04/29/09	ug/L	<2.5	--	<0.5	--	<1	--	<0.5	<0.5	<0.50
	05/27/09	ug/L	<2.5	--	0.76	--	<1	--	0.50	<0.5	<0.50
	06/29/09	ug/L	0.81	--	0.53	--	0.68	--	0.50	0.53	<0.50
	07/22/09	ug/L	<1	--	0.64	--	<1	--	<0.5	0.57	<0.50
	08/14/09	ug/L	<2.5	--	<0.5	--	<1	--	<0.5	0.59	<0.50
	09/11/09	ug/L	<2.5	--	0.7	--	<1	--	<0.5	0.62	<0.50
	10/08/09	ug/L	<2.5	--	<0.5	--	<1	--	<0.5	0.66	<0.50
	12/09/09	ug/L	<0.5	--	2.1	--	1.10	--	0.61	0.57	<0.50
	03/05/10	ug/L	<1.0	--	1.6	--	--	--	--	--	--
	03/22/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/23/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/24/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/25/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/26/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/01/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/09/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/13/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/23/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/25/10	ug/L	--	--	--	<0.16	--	--	<0.16	<0.16	<0.16

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	06/10/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/11/10	ug/L	<2.0	--	1.9	--	--	--	--	--	--
	07/08/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/02/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	09/02/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	09/08/10	ug/L	<2.0	--	2.4	--	--	--	--	--	--
	10/07/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/11/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	12/06/10	ug/L	<5.0	--	--	--	--	--	--	--	--
	12/07/10	ug/L	--	--	1.4	<0.5	--	--	<0.5	<0.5	<0.5
	01/13/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/03/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/02/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/24/11	ug/L	5.7	--	0.59	--	--	--	--	--	--
	04/01/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/04/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/07/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/23/11	ug/L	5.0	--	<0.5	--	--	--	--	--	--
	07/02/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/01/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/02/11	ug/L	<5	--	0.61	--	--	--	--	--	--
	09/09/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/17/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/01/11	ug/L	4.9	--	<0.5	<0.5	--	--	<0.5	<0.5	<0.5
	12/07/11	ug/L	<10	--	--	<0.5	<5	--	1.30	<0.5	<0.5
	01/06/12	ug/L	<10	--	--	<0.5	0.58	--	<0.5	<0.5	<0.5
	02/06/12	ug/L	--	--	<0.5	--	--	--	--	--	--
	02/08/12	ug/L	<4	--	--	<0.5	<1	--	<0.5	<0.5	<0.5
	03/09/12	ug/L	<4	--	--	<0.5	<1	--	<0.5	<0.5	<0.5
	04/16/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/01/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/07/12	ug/L	<4	--	<0.5	--	--	--	--	--	--
	06/08/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	07/11/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/03/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/06/12	ug/L	<5	--	<0.5	--	--	--	--	--	--
	09/06/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/15/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/05/12	ug/L	<5	--	<0.5	<0.5	--	--	<0.5	<0.5	<0.5
	12/10/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	01/04/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/04/13	ug/L	5.8	--	<0.5	--	--	--	--	--	--
	02/09/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/09/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/15/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/07/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/13/13	ug/L	3.4	--	<0.5	--	--	--	--	--	--
	05/29/13	ug/L	--	--	--	--	--	--	--	--	<0.5
	06/13/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/17/13	ug/L	--	--	--	--	--	--	--	--	--
	07/02/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	07/03/13	ug/L	--	--	--	--	--	--	--	--	--
	08/10/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/12/13	ug/L	3.5	--	0.56	--	--	--	--	--	--
	09/03/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/05/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	11/01/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/11/13	ug/L	4.2	--	<0.5	--	--	--	--	--	--
	12/11/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	01/17/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/03/14	ug/L	7.2	--	1.1	--	--	--	--	--	--
	02/11/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/04/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/20/14	ug/L	--	--	2.1	--	--	--	--	--	--
	07/30/14	ug/L	--	--	--	--	--	<0.5	<0.5	--	<0.5
	08/01/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/04/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/05/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/06/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/07/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/08/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/15/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/18/14	ug/L	3.4	--	4.0	--	--	--	--	--	--
	08/22/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/29/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	09/15/14	ug/L	--	--	--	--	--	--	--	--	<0.5
	11/03/14	ug/L	--	0.55	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/04/14	ug/L	0.72	--	4.0	--	--	--	--	--	--
	12/11/14	ug/L	--	--	--	--	--	--	--	--	<0.5
	12/18/14	ug/L	--	0.86	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/19/15	ug/L	--	0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/02/15	ug/L	2.8	--	2.4	--	--	--	--	--	--
	02/13/15	ug/L	--	0.94	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/06/15	ug/L	--	300	--	22	88	--	<0.50	<0.50	<0.50
	04/02/15	ug/L	--	290	--	30	62	--	<0.50	<0.50	<0.50
	05/01/15	ug/L	--	360	--	42	97	--	<0.50	<0.50	<0.50
	05/12/15	ug/L	1800	--	240	--	--	--	--	--	--
	06/05/15	ug/L	--	370	--	48	110	--	<0.50	<0.50	<0.50
	07/14/15	ug/L	--	360	--	59	110	--	<0.50	<0.50	<0.50
	08/06/15	ug/L	--	330	--	48	120	--	<0.50	<0.50	<0.50
	08/11/15	ug/L	1300	--	560	--	--	--	--	--	--
	09/03/15	ug/L	--	390	--	53	110	--	<0.50	<0.50	<0.50
	10/06/15	ug/L	--	360	--	40	100	--	<0.50	<0.50	<0.50
	11/02/15	ug/L	920	--	400	--	--	--	--	--	--
	11/05/15	ug/L	--	350	--	38	66	--	<0.50	<0.50	<0.50
	12/03/15	ug/L	--	0.82	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/11/15	ug/L	--	0.79	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/07/16	ug/L	--	0.79	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/21/16	ug/L	--	0.85	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/01/16	ug/L	<5.0	0.88	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/18/16	ug/L	--	<1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/03/16	ug/L	--	0.65	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/17/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/05/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/21/16	ug/L	--	0.64	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/02/16	ug/L	3.6	--	0.61	--	--	--	--	--	--
	05/05/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/19/16	ug/L	--	0.74	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/01/16	ug/L	--	0.62	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/16/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/07/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/21/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	08/01/16	ug/L	4.2	--	<0.50	--	--	--	--	--	--
	08/04/16	ug/L	--	0.57	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/18/16	ug/L	--	0.51	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/08/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/15/16	ug/L	--	0.52	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/16	ug/L	--	0.51	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/20/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/01/16	ug/L	--	0.62	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/08/16	ug/L	3.2	--	0.7	--	--	--	--	--	--
	11/17/16	ug/L	--	0.53	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/01/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/15/16	ug/L	--	<0.50	--	<0.50	--	--	--	--	--
	12/16/16	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	01/06/17	ug/L	--	0.70	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/26/17	ug/L	--	0.68	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/03/17	ug/L	--	--	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/06/17	ug/L	4.9	--	<0.50	--	--	--	--	--	--
	02/09/17	ug/L	--	0.65	--	--	--	--	--	--	--
	02/16/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/02/17	ug/L	--	0.53	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/16/17	ug/L	--	0.51	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/06/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/20/17	ug/L	--	0.57	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/04/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/15/17	ug/L	<5.0	--	0.50	--	--	--	--	--	--
	05/18/17	ug/L	--	0.40 J	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/01/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/15/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/06/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/20/17	ug/L	--	0.52	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/03/17	ug/L	--	0.56	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/07/17	ug/L	3.3 J	--	0.23 J	--	--	--	--	--	--
	08/17/17	ug/L	--	0.57	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/01/17	ug/L	--	0.51	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/14/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/19/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/06/17	ug/L	<5.0	<0.50	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/20/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/04/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/14/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/04/18	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/18/18	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/01/18	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/15/18	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/27/18	ug/L	<2.5	--	--	--	--	--	--	--	--
	03/15/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	03/19/18	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/29/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/05/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/19/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/03/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/08/18	ug/L	<2.5	--	<0.50	--	--	--	--	--	
	05/17/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	06/07/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	06/21/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	07/05/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	07/19/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/02/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/16/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/24/18	ug/L	<2.5	--	<0.5	--	--	--	--	--	--
	09/11/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	09/20/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/05/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/18/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/01/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/06/18	ug/L	2.4 J	--	<0.5	--	--	--	--	--	--
	11/15/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	12/04/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	12/19/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	01/03/19	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	01/24/19	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/07/19	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/13/19	ug/L	3.3	--	<0.5	--	--	--	--	--	--
	02/21/19	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	06/22/05	ug/L	--	--	<0.5	--	--	--	--	--	--
(6 ug/L MCL)	09/22/05	ug/L	--	--	<0.5	--	--	--	--	--	--
	12/19/05	ug/L	--	--	<0.5	--	--	--	--	--	--
	03/22/06	ug/L	--	--	<0.5	--	--	--	--	--	--
	06/21/06	ug/L	--	--	<0.5	--	--	--	--	--	--
	12/11/06	ug/L	--	--	<0.5	--	--	--	--	--	--
	03/14/07	ug/L	--	--	<0.5	--	--	--	--	--	--
	06/22/07	ug/L	--	--	<0.5	--	--	--	--	--	--
	09/27/07	ug/L	--	--	<0.5	--	--	--	--	--	--
	12/13/07	ug/L	--	--	0.52	--	--	--	--	--	--
	06/25/08	ug/L	--	--	<0.5	--	--	--	--	--	--
	07/08/08	ug/L	<10	--	<2.5	--	0.95	--	<0.5	<0.5	<0.50
	07/09/08	ug/L	<10	--	<0.50	--	<5	--	<0.5	<0.5	<0.50
	07/10/08	ug/L	<5.0	--	<0.50	--	0.90	--	<0.5	<0.5	<0.50
	07/15/08	ug/L	<5.0	--	<1.0	--	<5	0.57	<0.5	<0.5	<0.50
	07/16/08	ug/L	<5.0	--	<1.0	--	<5	--	<0.5	<0.5	<0.50
	07/23/08	ug/L	<10	--	<1.0	--	<5	--	<0.5	<0.5	<0.50
	07/30/08	ug/L	<10	--	<1.0	--	<5	--	<0.5	<0.5	<0.50
	08/06/08	ug/L	<5.0	--	<1.0	--	<5	--	<0.5	<0.5	<0.50
	08/25/08	ug/L	<5.0	--	<0.50	--	<2.5	--	<0.5	<0.5	<0.50
	09/24/08	ug/L	<2.5	--	<0.50	--	<2.5	--	<0.5	<0.5	<0.50
	10/22/08	ug/L	<2.5	--	<0.50	--	<1	--	<0.5	<0.5	<0.50
	11/26/08	ug/L	<2.5	--	<0.50	--	<1	--	<0.5	<0.5	<0.50
	02/25/09	ug/L	<2.5	--	<0.5	--	<1	--	<0.5	<0.5	<0.50
	03/18/09	ug/L	<2.5	--	<0.5	--	<1	--	<0.5	<0.5	<0.50
	04/29/09	ug/L	<2.5	--	<0.5	--	<1	--	<0.5	<0.5	<0.50
	05/27/09	ug/L	<2.5	--	<0.5	--	<1	--	<0.5	<0.5	<0.50
	06/29/09	ug/L	0.63	--	<0.5	--	<0.5	--	<0.5	<0.5	<0.50
	07/22/09	ug/L	1.0	--	<0.5	--	<1	--	<0.5	<0.5	<0.50
	08/14/09	ug/L	<2.5	--	<0.5	--	<1	--	<0.5	<0.5	<0.50
	09/11/09	ug/L	<2.5	--	<0.5	--	<1	--	<0.5	<0.5	<0.50
	10/08/09	ug/L	<2.5	--	<0.5	--	<1	--	<0.5	<0.5	<0.50
	12/09/09	ug/L	<0.5	--	<0.5	--	<1	--	<0.5	<0.5	<0.50
	03/05/10	ug/L	<1	--	<1	--	--	--	--	--	--
	03/22/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/23/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/24/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	03/25/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/26/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/01/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/09/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/13/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/23/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/25/10	ug/L	--	--	--	<0.15	--	--	<0.15	<0.15	<0.15
	06/10/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/11/10	ug/L	<2.0	--	<1	--	--	--	--	--	--
	07/08/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/02/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	09/02/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	09/08/10	ug/L	<2.0	--	<1	--	--	--	--	--	--
	10/07/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/11/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	12/06/10	ug/L	<5.0	--	--	--	--	--	--	--	--
	12/07/10	ug/L	--	--	<1	<0.5	--	--	<0.5	<0.5	<0.5
	01/13/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/03/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/02/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/24/11	ug/L	<0.5	--	<0.5	--	--	--	--	--	--
	04/01/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/04/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/07/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/23/11	ug/L	<0.5	--	<0.5	--	--	--	--	--	--
	07/02/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/01/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/02/11	ug/L	<0.5	--	<0.5	--	--	--	--	--	--
	09/09/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/17/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/01/11	ug/L	<2.5	--	<0.5	<0.5	--	--	<0.5	<0.5	<0.5
	12/07/11	ug/L	<10	--	--	<0.5	<5	--	<0.5	<0.5	<0.5
	01/06/12	ug/L	<10	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/06/12	ug/L	--	--	<0.5	--	--	--	--	--	--
	02/08/12	ug/L	<4	--	--	<0.5	<1	--	<0.5	<0.5	<0.5
	03/09/12	ug/L	<4	--	--	<0.5	<1	--	<0.5	<0.5	<0.5
	04/16/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/01/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/07/12	ug/L	<4	--	<0.5	--	--	--	--	--	--
	06/08/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	07/11/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/03/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/06/12	ug/L	<5	--	<1	--	--	--	--	--	--
	09/06/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/15/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/05/12	ug/L	<5	--	<0.5	<0.5	--	--	<0.5	<0.5	<0.5
	12/10/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	01/04/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/04/13	ug/L	<2.5	--	<0.5	--	--	--	--	--	--
	02/09/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/09/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/15/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/07/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/13/13	ug/L	<2.5	--	<0.5	--	--	--	--	--	--
	06/13/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	07/02/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	08/10/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/12/13	ug/L	<2.5	--	<0.5	--	--	--	--	--	--
	09/03/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/05/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/01/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/11/13	ug/L	<2.5	--	<0.5	--	--	--	--	--	--
	12/11/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	01/17/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/03/14	ug/L	<2.5	--	<0.5	--	--	--	--	--	--
	02/11/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/04/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/20/14	ug/L	--	--	<0.5	--	--	--	--	--	--
	08/01/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/04/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/05/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/06/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/07/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/08/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/15/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/18/14	ug/L	<2.5	--	<2.5	--	--	--	--	--	--
	08/22/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/29/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	09/15/14	ug/L	--	--	--	--	--	--	--	--	<0.5
	11/03/14	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/04/14	ug/L	1.1	--	<1	--	--	--	--	--	--
	12/18/14	ug/L	--	0.60	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/19/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/02/15	ug/L	<2.0	--	<1.0	--	--	--	--	--	--
	02/13/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/06/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/02/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/01/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/12/15	ug/L	<2.5	--	<0.50	--	--	--	--	--	--
	06/05/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/14/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/06/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/11/15	ug/L	<2.5	--	<1.0	--	--	--	--	--	--
	09/03/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/02/15	ug/L	<2.0	--	<1.0	--	--	--	--	--	--
	11/05/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/03/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/11/15	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/07/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/21/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/01/16	ug/L	<5.0	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/18/16	ug/L	--	<1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/03/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/17/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/05/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/21/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/02/16	ug/L	<2.0	--	<0.5	--	--	--	--	--	--
	05/05/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/19/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/01/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/16/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	07/07/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/21/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/01/16	ug/L	<2.5	--	<0.50	--	--	--	--	--	--
	08/04/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/18/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/08/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/15/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/20/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/01/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/08/16	ug/L	<2.5	--	<0.50	--	--	--	--	--	--
	11/17/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/01/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/15/16	ug/L	--	<0.50	--	<0.50	--	--	--	--	--
	12/16/16	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	01/06/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/26/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/03/17	ug/L	--	--	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/06/17	ug/L	<2.5	--	<0.50	--	--	--	--	--	--
	02/09/17	ug/L	--	<0.50	--	--	--	--	--	--	--
	02/16/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/02/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/16/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/06/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/20/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/04/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/15/17	ug/L	<5.0	--	<0.50	--	--	--	--	--	--
	05/18/17	ug/L	--	0.20 J	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/01/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/15/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/06/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/20/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/03/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/07/17	ug/L	<5.0	--	<0.50	--	--	--	--	--	--
	08/17/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/01/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/14/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/19/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/06/17	ug/L	<5.0	<0.50	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/20/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/04/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/14/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/04/18	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/18/18	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/01/18	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/15/18	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/27/18	ug/L	<2.5	--	--	--	--	--	--	--	--
	03/15/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	03/19/18	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/29/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/05/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/19/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/03/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/08/18	ug/L	<2.5	--	<0.5	--	--	--	--	--	--
	05/17/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	06/07/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	06/21/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	07/05/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	07/19/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/02/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/16/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/24/18	ug/L	<2.5	--	<0.5	--	--	--	--	--	--
	09/11/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	09/20/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/05/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/18/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/01/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/06/18	ug/L	1.2 J	--	<0.5	--	--	--	--	--	--
	11/15/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	12/04/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	12/19/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	01/03/19	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	01/24/19	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/07/19	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/13/19	ug/L	<2.5	--	<0.5	--	--	--	--	--	--
	02/21/19	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
Tetrachloroethene	06/22/05	ug/L	--	--	2.5	--	--	--	--	--	--
(5 ug/L MCL)	09/22/05	ug/L	--	--	0.59	--	--	--	--	--	--
	12/19/05	ug/L	--	--	<0.5	--	--	--	--	--	--
	03/22/06	ug/L	--	--	<0.5	--	--	--	--	--	--
	06/21/06	ug/L	--	--	<0.5	--	--	--	--	--	--
	12/11/06	ug/L	--	--	<0.5	--	--	--	--	--	--
	03/14/07	ug/L	--	--	<0.5	--	--	--	--	--	--
	06/22/07	ug/L	--	--	<0.5	--	--	--	--	--	--
	09/27/07	ug/L	--	--	0.73	--	--	--	--	--	--
	12/13/07	ug/L	--	--	3.3	--	--	--	--	--	--
	06/25/08	ug/L	--	--	2.6	--	--	--	--	--	--
	07/08/08	ug/L	11	--	2.6	--	7.1	--	0.84	<0.5	<0.50
	07/09/08	ug/L	10	--	2.2	--	6.6	--	0.51	<0.5	<0.50
	07/10/08	ug/L	12	--	2.1	--	6.3	--	<0.5	<0.5	<0.50
	07/15/08	ug/L	12	--	2.3	--	<5	1.8	<0.5	<0.5	<0.50
	07/16/08	ug/L	10	--	1.8	--	<5	--	<0.5	<0.5	<0.50
	07/23/08	ug/L	<10	--	2.3	--	5.8	--	<0.5	<0.5	<0.50
	07/30/08	ug/L	<10	--	1.2	--	<5	--	<0.5	<0.5	<0.50
	08/06/08	ug/L	7	--	<1.0	--	<5	--	0.66	<0.5	<0.50
	08/25/08	ug/L	5.1	--	0.84	--	3.0	--	<0.5	<0.5	<0.50
	09/24/08	ug/L	3.4	--	0.94	--	<2.5	--	<0.5	<0.5	<0.50
	10/22/08	ug/L	3.2	--	0.66	--	2.0	--	<0.5	<0.5	<0.50
	11/26/08	ug/L	2.6	--	0.63	--	1.9	--	<0.5	<0.5	<0.50
	02/25/09	ug/L	<2.5	--	1.1	--	1.6	--	<0.5	<0.5	<0.50
	03/18/09	ug/L	<2.5	--	<0.5	--	1.3	--	<0.5	<0.5	<0.50
	04/29/09	ug/L	<2.5	--	0.6	--	1.3	--	<0.5	<0.5	<0.50
	05/27/09	ug/L	<2.5	--	0.79	--	1.3	--	<0.5	<0.5	<0.50
	06/29/09	ug/L	2.1	--	0.76	--	1.2	--	<0.5	<0.5	<0.50
	07/22/09	ug/L	1.6	--	0.66	--	1.1	--	<0.5	<0.5	<0.50
	08/14/09	ug/L	<2.5	--	<0.5	--	1.1	--	<0.5	<0.5	<0.50
	09/11/09	ug/L	<2.5	--	0.66	--	1.2	--	<0.5	<0.5	<0.50
	10/08/09	ug/L	<2.5	--	<0.5	--	1.1	--	<0.5	<0.5	<0.50
	12/09/09	ug/L	<0.5	--	2.0	--	1.1	--	<0.5	<0.5	<0.50
	03/05/10	ug/L	<1.0	--	1.9	--	--	--	--	--	--
	03/22/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	03/23/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/24/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/25/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/26/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/01/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/09/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/13/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/23/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/25/10	ug/L	--	--	--	<0.19	--	--	<0.19	<0.19	<0.19
	06/10/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/11/10	ug/L	<2.0	--	1.9	--	--	--	--	--	--
	07/08/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/02/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	09/02/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	09/08/10	ug/L	<2.0	--	2.0	--	--	--	--	--	--
	10/07/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/11/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	12/06/10	ug/L	<5.0	--	--	--	--	--	--	--	--
	12/07/10	ug/L	--	--	1.4	<0.5	--	--	<0.5	<0.5	<0.5
	01/13/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/03/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/02/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/24/11	ug/L	8.7	--	0.82	--	--	--	--	--	--
	04/01/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/04/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/07/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/23/11	ug/L	5.8	--	0.5	--	--	--	--	--	--
	07/02/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/01/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/02/11	ug/L	5.6	--	0.67	--	--	--	--	--	--
	09/09/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/17/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/01/11	ug/L	5.6	--	<0.5	<0.5	--	--	<0.5	<0.5	<0.5
	12/07/11	ug/L	<10	--	--	<0.5	<5	--	<0.5	<0.5	<0.5
	01/06/12	ug/L	<10	--	--	<0.5	1.2	--	<0.5	<0.5	<0.5
	02/06/12	ug/L	--	--	<0.5	--	--	--	--	--	--
	02/08/12	ug/L	<4	--	--	<0.5	<1	--	<0.5	<0.5	<0.5
	03/09/12	ug/L	<4	--	--	<0.5	<1	--	<0.5	<0.5	<0.5
	04/16/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/01/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/07/12	ug/L	<4	--	0.78	--	--	--	--	--	--
	06/08/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	07/11/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/03/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/06/12	ug/L	<5	--	<0.5	--	--	--	--	--	--
	09/06/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/15/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/05/12	ug/L	6.1	--	<0.5	<0.5	--	--	<0.5	<0.5	<0.5
	12/10/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	01/04/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/04/13	ug/L	5.1	--	<0.5	--	--	--	--	--	--
	02/09/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/09/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/15/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/07/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/13/13	ug/L	4.5	--	<0.5	--	--	--	--	--	--

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	05/29/13	ug/L	--	--	--	--	--	--	--	--	<0.5
	06/13/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/17/13	ug/L	--	--	--	--	--	--	--	--	--
	07/02/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	07/03/13	ug/L	--	--	--	--	--	--	--	--	--
	08/10/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/12/13	ug/L	3.4	--	0.76	--	--	--	--	--	--
	09/03/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/05/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/01/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/11/13	ug/L	3.3	--	0.55	--	--	--	--	--	--
	12/11/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	01/17/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/03/14	ug/L	5.2	--	1.1	--	--	--	--	--	--
	02/11/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/04/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/20/14	ug/L	--	--	1.6	--	--	--	--	--	--
	07/30/14	ug/L	--	--	--	--	--	<0.5	<0.5	--	<0.5
	08/01/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/04/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/05/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/06/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/07/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/08/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/15/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/18/14	ug/L	3.6	--	3.8	--	--	--	--	--	--
	08/22/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/29/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	09/15/14	ug/L	--	--	--	--	--	--	--	--	<0.5
	11/03/14	ug/L	--	0.78	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/04/14	ug/L	0.85	--	4.3	--	--	--	--	--	--
	12/11/14	ug/L	--	--	--	--	--	--	--	--	<0.5
	12/18/14	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/19/15	ug/L	--	0.97	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/02/15	ug/L	3.3	--	2.8	--	--	--	--	--	--
	02/13/15	ug/L	--	1.3	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/06/15	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/02/15	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/01/15	ug/L	--	0.98	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/12/15	ug/L	5.0	--	0.83	--	--	--	--	--	--
	06/05/15	ug/L	--	1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/14/15	ug/L	--	0.76	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/06/15	ug/L	--	1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/11/15	ug/L	3.8	--	1.7	--	--	--	--	--	--
	09/03/15	ug/L	--	0.97	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/15	ug/L	--	0.87	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/02/15	ug/L	2.3	--	1.1	--	--	--	--	--	--
	11/05/15	ug/L	--	0.89	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/03/15	ug/L	--	1.2	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/11/15	ug/L	--	1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/07/16	ug/L	--	0.96	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/21/16	ug/L	--	0.95	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/01/16	ug/L	<5.0	0.92	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/18/16	ug/L	--	<1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/03/16	ug/L	--	0.87	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/17/16	ug/L	--	1.00	--	<0.50	<0.50	--	<0.50	<0.50	<0.50

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	04/05/16	ug/L	--	0.90	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/21/16	ug/L	--	0.94	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/02/16	ug/L	4.1	--	0.78	--	--	--	--	--	--
	05/05/16	ug/L	--	0.96	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/19/16	ug/L	--	0.97	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/01/16	ug/L	--	0.96	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/16/16	ug/L	--	1.1	--	<0.50	0.87	--	<0.50	<0.50	<0.50
	07/07/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/21/16	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/01/16	ug/L	4.5	--	<0.50	--	--	--	--	--	--
	08/04/16	ug/L	--	0.88	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/18/16	ug/L	--	0.63	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/08/16	ug/L	--	0.67	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/15/16	ug/L	--	0.71	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/16	ug/L	--	0.82	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/20/16	ug/L	--	0.81	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/01/16	ug/L	--	0.84	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/08/16	ug/L	2.6	--	0.69	--	--	--	--	--	--
	11/17/16	ug/L	--	0.65	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/01/16	ug/L	--	0.53	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/15/16	ug/L	--	0.59	--	<0.50	--	--	--	--	--
	12/16/16	ug/L	--	--	--	--	<0.50	--	<0.50	<0.50	<0.50
	01/06/17	ug/L	--	0.60	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/26/17	ug/L	--	0.84	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/03/17	ug/L	--	--	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/06/17	ug/L	6.0	--	<0.50	--	--	--	--	--	--
	02/09/17	ug/L	--	0.70	--	--	--	--	--	--	--
	02/16/17	ug/L	--	0.70	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/02/17	ug/L	--	0.72	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/16/17	ug/L	--	0.85	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/06/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/20/17	ug/L	--	0.88	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/04/17	ug/L	--	0.97	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/15/17	ug/L	4.1 J	--	0.55	--	--	--	--	--	--
	05/18/17	ug/L	--	0.77	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/01/17	ug/L	--	0.63	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/15/17	ug/L	--	0.70	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/06/17	ug/L	--	0.66	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/20/17	ug/L	--	0.71	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/03/17	ug/L	--	0.77	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/07/17	ug/L	5.4	--	0.48 J	--	--	--	--	--	--
	08/17/17	ug/L	--	0.84	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/01/17	ug/L	--	0.83	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	09/14/17	ug/L	--	0.98	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/17	ug/L	--	0.52	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/19/17	ug/L	--	<0.50	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/06/17	ug/L	5.8	0.57	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/20/17	ug/L	--	0.56	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/04/17	ug/L	--	0.59	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/14/17	ug/L	--	0.60	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/04/18	ug/L	--	<0.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/18/18	ug/L	--	<0.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/01/18	ug/L	--	0.52	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/15/18	ug/L	--	<0.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/27/18	ug/L	3.2	--	--	--	--	--	--	--	--
	03/15/18	ug/L	--	0.62	--	<0.5	<0.5	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	03/19/18	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/29/18	ug/L	--	0.57	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/05/18	ug/L	--	0.57	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/19/18	ug/L	--	0.55	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/03/18	ug/L	--	0.58	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/08/18	ug/L	2.6	--	<0.5	--	--	--	--	--	--
	05/17/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	06/07/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	06/21/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	07/05/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	07/19/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/02/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/16/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/24/18	ug/L	3.0	--	0.27 J	--	--	--	--	--	--
	09/11/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	09/20/18	ug/L	--	0.52	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/05/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/18/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/01/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/06/18	ug/L	3.4	--	<0.5	--	--	--	--	--	--
	11/15/18	ug/L	--	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	12/04/18	ug/L	--	0.50	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	12/19/18	ug/L	--	< 0.50	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	01/03/19	ug/L	--	< 0.50	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	01/24/19	ug/L	--	0.59	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/07/19	ug/L	--	< 0.50	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/13/19	ug/L	3.0	--	< 0.50	--	--	--	--	--	--
	02/21/19	ug/L	--	< 0.50	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
Trichloroethene	06/22/05	ug/L	--	--	1.9	--	--	--	--	--	--
(5 ug/L MCL)	09/22/05	ug/L	--	--	<0.5	--	--	--	--	--	--
	12/19/05	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/22/06	ug/L	--	--	<0.50	--	--	--	--	--	--
	06/21/06	ug/L	--	--	<0.50	--	--	--	--	--	--
	12/11/06	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/14/07	ug/L	--	--	<0.50	--	--	--	--	--	--
	06/22/07	ug/L	--	--	<0.50	--	--	--	--	--	--
	09/27/07	ug/L	--	--	0.56	--	--	--	--	--	--
	12/13/07	ug/L	--	--	2.8	--	--	--	--	--	--
	06/25/08	ug/L	--	--	2	--	--	--	--	--	--
	07/08/08	ug/L	26	--	<2.5	--	13	--	0.57	<0.5	<0.50
	07/09/08	ug/L	25	--	1.9	--	15	--	<0.5	<0.5	<0.50
	07/10/08	ug/L	23	--	1.3	--	12	--	<0.5	<0.5	<0.50
	07/15/08	ug/L	30	--	1.4	--	14	--	<0.5	<0.5	<0.50
	07/16/08	ug/L	26	--	1.9	--	15	--	<0.5	<0.5	<0.50
	07/23/08	ug/L	24	--	1.2	--	12	--	<0.5	<0.5	<0.50
	07/30/08	ug/L	20	--	1.0	--	9.0	--	<0.5	<0.5	<0.50
	08/06/08	ug/L	19	--	<1.0	--	10	--	<0.5	<0.5	<0.50
	08/25/08	ug/L	16	--	0.65	--	8.7	--	<0.5	<0.5	<0.50
	09/24/08	ug/L	16	--	1.3	--	3.8	--	<0.5	<0.5	<0.50
	10/22/08	ug/L	14	--	0.54	--	7.3	--	<0.5	<0.5	<0.50
	11/26/08	ug/L	12	--	0.51	--	8.4	--	<0.5	<0.5	<0.50
	02/25/09	ug/L	12	--	1.0	--	6.7	--	<0.5	<0.5	<0.50
	03/18/09	ug/L	11	--	<0.5	--	5.6	--	<0.5	<0.5	<0.50
	04/29/09	ug/L	14	--	<0.5	--	6.7	--	<0.5	<0.5	<0.50
	05/27/09	ug/L	14	--	0.9	--	7.2	--	<0.5	<0.5	<0.50
	06/29/09	ug/L	17	--	0.58	--	8.1	--	<0.5	<0.5	<0.50

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	07/22/09	ug/L	16	--	0.62	--	7.7	--	<0.5	<0.5	<0.50
	08/14/09	ug/L	18	--	<0.5	--	8.7	--	<0.5	<0.5	<0.50
	09/11/09	ug/L	14	--	0.6	--	7.5	--	<0.5	<0.5	<0.50
	10/08/09	ug/L	19	--	<0.5	--	9.4	--	<0.5	<0.5	<0.50
	12/09/09	ug/L	12	--	1.7	--	7.4	--	<0.5	<0.5	<0.50
	03/05/10	ug/L	14	--	1.6	--	--	--	--	--	--
	03/22/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/23/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/24/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/25/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/26/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/01/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/09/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/13/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/23/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/25/10	ug/L	--	--	--	<0.15	--	--	<0.15	<0.15	<0.15
	06/10/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/11/10	ug/L	22	--	1.6	--	--	--	--	--	--
	07/08/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/02/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	09/02/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	09/08/10	ug/L	21	--	2.0	--	--	--	--	--	--
	10/07/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/11/10	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	12/06/10	ug/L	23	--	--	--	--	--	--	--	--
	12/07/10	ug/L	--	--	1.2	<0.5	--	--	<0.5	<0.5	<0.5
	01/13/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/03/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/02/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/24/11	ug/L	23	--	0.54	--	--	--	--	--	--
	04/01/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/04/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/07/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/23/11	ug/L	24	--	0.52	--	--	--	--	--	--
	07/02/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/01/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/02/11	ug/L	24	--	0.55	--	--	--	--	--	--
	09/09/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/17/11	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/01/11	ug/L	22	--	<0.5	<0.5	--	--	<0.5	<0.5	<0.5
	12/07/11	ug/L	20	--	--	<0.5	<5	--	<0.5	<0.5	<0.5
	01/06/12	ug/L	13	--	--	<0.5	4.3	--	<0.5	<0.5	<0.5
	02/06/12	ug/L	--	--	<0.5	--	--	--	--	--	--
	02/08/12	ug/L	11	--	--	<0.5	3.4	--	<0.5	<0.5	<0.5
	03/09/12	ug/L	14	--	--	<0.5	3.8	--	<0.5	<0.5	<0.5
	04/16/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/01/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/07/12	ug/L	11	--	<0.5	--	--	--	--	--	--
	06/08/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	07/11/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/03/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/06/12	ug/L	12	--	<0.5	--	--	--	--	--	--
	09/06/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/15/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/05/12	ug/L	16	--	<0.5	<0.5	--	--	<0.5	<0.5	<0.5
	12/10/12	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	01/04/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/04/13	ug/L	19	--	<0.5	--	--	--	--	--	--
	02/09/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/09/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	04/15/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/07/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/13/13	ug/L	15	--	<0.5	--	--	--	--	--	--
	05/29/13	ug/L	--	--	--	--	--	--	--	--	<0.5
	06/13/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	06/17/13	ug/L	--	--	--	--	--	--	--	--	--
	07/02/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/10/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	08/12/13	ug/L	19	--	<0.5	--	--	--	--	--	--
	09/03/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	10/05/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/01/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	11/11/13	ug/L	13	--	0.54	--	--	--	--	--	--
	12/11/13	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	01/17/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	02/03/14	ug/L	17	--	0.81	--	--	--	--	--	--
	02/11/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	03/04/14	ug/L	--	--	--	<0.5	--	--	<0.5	<0.5	<0.5
	05/20/14	ug/L	--	--	1.2	--	--	--	--	--	--
	07/30/14	ug/L	--	--	--	--	--	<0.5	<0.5	--	<0.5
	08/01/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/04/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/05/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/06/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/07/14	ug/L	--	--	--	--	0.60	--	<0.5	<0.5	<0.5
	08/08/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/15/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/18/14	ug/L	18	--	3.1	--	--	--	--	--	--
	08/22/14	ug/L	--	--	--	--	<0.5	--	<0.5	<0.5	<0.5
	08/29/14	ug/L	--	--	--	--	0.65	--	<0.5	<0.5	<0.5
	09/15/14	ug/L	--	--	--	--	--	--	--	--	<0.5
	11/03/14	ug/L	--	4.6	--	<0.5	0.97	--	<0.5	<0.5	<0.5
	11/04/14	ug/L	19	--	3.3	--	--	--	--	--	--
	12/11/14	ug/L	--	--	--	--	--	--	--	--	<0.5
	12/18/14	ug/L	--	6.3	--	<0.50	1.4	--	<0.50	<0.50	<0.50
	01/19/15	ug/L	--	3.4	--	<0.50	0.79	--	<0.50	<0.50	<0.50
	02/02/15	ug/L	18	--	2.3	--	--	--	--	--	--
	02/13/15	ug/L	--	4.8	--	<0.50	1.4	--	<0.50	<0.50	<0.50
	03/06/15	ug/L	--	3.7	--	<0.50	1.0	--	<0.50	<0.50	<0.50
	04/02/15	ug/L	--	4.1	--	<0.50	0.7	--	<0.50	<0.50	<0.50
	05/01/15	ug/L	--	3.6	--	<0.50	0.92	--	<0.50	<0.50	<0.50
	05/12/15	ug/L	18	--	0.67	--	--	--	--	--	--
	06/05/15	ug/L	--	3.5	--	<0.50	0.82	--	<0.50	<0.50	<0.50
	07/14/15	ug/L	--	3.8	--	<0.50	0.94	--	<0.50	<0.50	<0.50
	08/06/15	ug/L	--	3.7	--	<0.50	1.0	--	<0.50	<0.50	<0.50
	08/11/15	ug/L	21	--	1.5	--	--	--	--	--	--
	09/03/15	ug/L	--	3.8	--	<0.50	0.92	--	<0.50	<0.50	<0.50
	10/06/15	ug/L	--	3.6	--	<0.50	0.93	--	<0.50	<0.50	<0.50
	11/02/15	ug/L	16	--	2.1	--	--	--	--	--	--
	11/05/15	ug/L	--	3.2	--	<0.50	0.54	--	<0.50	<0.50	<0.50
	12/03/15	ug/L	--	4.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/11/15	ug/L	--	3.6	--	<0.50	0.81	--	<0.50	<0.50	<0.50

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	01/07/16	ug/L	--	2.6	--	<0.50	0.58	--	<0.50	<0.50	<0.50
	01/21/16	ug/L	--	2.6	--	<0.50	0.53	--	<0.50	<0.50	<0.50
	02/01/16	ug/L	17	2.5	--	<0.50	0.53	--	<0.50	<0.50	<0.50
	02/18/16	ug/L	--	2.8	--	<0.50	0.71	--	<0.50	<0.50	<0.50
	03/03/16	ug/L	--	2.9	--	<0.50	0.70	--	<0.50	<0.50	<0.50
	03/17/16	ug/L	--	2.7	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/05/16	ug/L	--	2.5	--	<0.50	0.64	--	<0.50	<0.50	<0.50
	04/21/16	ug/L	--	2.7	--	<0.50	0.81	--	<0.50	<0.50	<0.50
	05/02/16	ug/L	20	--	<0.50	--	--	--	--	--	--
	05/05/16	ug/L	--	2.6	--	<0.50	0.67	--	<0.50	<0.50	<0.50
	05/19/16	ug/L	--	2.8	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/01/16	ug/L	--	2.8	--	<0.50	0.67	--	<0.50	<0.50	<0.50
	06/16/16	ug/L	--	2.5	--	<0.50	0.69	--	<0.50	<0.50	<0.50
	07/07/16	ug/L	--	3.1	--	<0.50	0.80	--	<0.50	<0.50	<0.50
	07/21/16	ug/L	--	2.8	--	<0.50	0.69	--	<0.50	<0.50	<0.50
	08/01/16	ug/L	20	--	0.76	--	--	--	--	--	--
	08/04/16	ug/L	--	3.1	--	<0.50	0.78	--	<0.50	<0.50	<0.50
	08/18/16	ug/L	--	2.5	--	<0.50	0.58	--	<0.50	<0.50	<0.50
	09/08/16	ug/L	--	2.7	--	<0.50	0.65	--	<0.50	<0.50	<0.50
	09/15/16	ug/L	--	2.5	--	<0.50	0.66	--	<0.50	<0.50	<0.50
	10/06/16	ug/L	--	2.7	--	<0.50	0.71	--	<0.50	<0.50	<0.50
	10/20/16	ug/L	--	2.2	--	<0.50	0.57	--	<0.50	<0.50	<0.50
	11/01/16	ug/L	--	2.7	--	<0.50	0.69	--	<0.50	<0.50	<0.50
	11/08/16	ug/L	18	--	0.77	--	--	--	--	--	--
	11/17/16	ug/L	--	2.7	--	<0.50	0.74	--	<0.50	<0.50	<0.50
	12/01/16	ug/L	--	2.00	--	<0.50	0.55	--	<0.50	<0.50	<0.50
	12/15/16	ug/L	--	2.1	--	<0.50	--	--	--	--	--
	12/16/16	ug/L	--	--	--	--	0.57	--	<0.50	<0.50	<0.50
	01/06/17	ug/L	--	1.7	--	<0.50	0.53	--	<0.50	<0.50	<0.50
	01/26/17	ug/L	--	1.8	--	<0.50	0.55	--	<0.50	<0.50	<0.50
	02/03/17	ug/L	--	--	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/06/17	ug/L	16	--	<0.50	--	--	--	--	--	--
	02/09/17	ug/L	--	2.7	--	--	--	--	--	--	--
	02/16/17	ug/L	--	1.7	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/02/17	ug/L	--	1.4	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	03/16/17	ug/L	--	1.6	--	<0.50	0.53	--	<0.50	<0.50	<0.50
	04/06/17	ug/L	--	1.4	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/20/17	ug/L	--	1.2	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/04/17	ug/L	--	1.3	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/15/17	ug/L	12	--	0.49 J	--	--	--	--	--	--
	05/18/17	ug/L	--	1.6	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/01/17	ug/L	--	1.4	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	06/15/17	ug/L	--	1.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/06/17	ug/L	--	1.7	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/20/17	ug/L	--	1.9	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/03/17	ug/L	--	2.0	--	<0.50	0.55	--	<0.50	<0.50	<0.50
	08/07/17	ug/L	14	--	<0.50	--	--	--	--	--	--
	08/17/17	ug/L	--	2.1	--	<0.50	0.57	--	<0.50	<0.50	<0.50
	09/01/17	ug/L	--	1.9	--	<0.50	0.55	--	<0.50	<0.50	<0.50
	09/14/17	ug/L	--	1.9	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/17	ug/L	--	1.2	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/19/17	ug/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/06/17	ug/L	10	1.0	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/20/17	ug/L	--	1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/04/17	ug/L	--	0.7	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/14/17	ug/L	--	1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	01/04/18	ug/L	--	0.9	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	01/18/18	ug/L	--	0.8	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/01/18	ug/L	--	1.4	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/15/18	ug/L	--	1.5	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	02/27/18	ug/L	8.8	--	--	--	--	--	--	--	--
	03/15/18	ug/L	--	1.2	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	03/19/18	ug/L	--	--	<0.50	--	--	--	--	--	--
	03/29/18	ug/L	--	1.3	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/05/18	ug/L	--	1.2	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	04/19/18	ug/L	--	1.2	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/03/18	ug/L	--	1.3	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	05/08/18	ug/L	11	--	<0.50	--	--	--	--	--	--
	05/17/18	ug/L	--	1.3	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	06/07/18	ug/L	--	1.2	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	06/21/18	ug/L	--	1.2	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	07/05/18	ug/L	--	1.2	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	07/19/18	ug/L	--	1.4	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/02/18	ug/L	--	1.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/16/18	ug/L	--	1.6	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	08/24/18	ug/L	16	--	<0.50	--	--	--	--	--	--
	09/11/18	ug/L	--	1.6	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	09/20/18	ug/L	--	1.7	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/05/18	ug/L	--	1.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	10/18/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/01/18	ug/L	--	--	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	11/06/18	ug/L	15	--	0.39 J	--	--	--	--	--	--
	11/15/18	ug/L	--	1.8	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	12/04/18	ug/L	--	1.9	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	12/19/18	ug/L	--	1.8	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	01/03/19	ug/L	--	1.5	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	01/24/19	ug/L	--	1.8	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/07/19	ug/L	--	1.7	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
	02/13/19	ug/L	12	--	<0.5	--	--	--	--	--	--
	02/21/19	ug/L	--	1.6	--	<0.5	<0.5	--	<0.5	<0.5	<0.5
1,4-Dioxane	06/22/05	ug/L	--	--	140 E	--	--	--	--	--	--
(1 ug/L California Notification Level)	09/22/05	ug/L	--	--	25 E	--	--	--	--	--	--
	12/19/05	ug/L	--	--	5.1	--	--	--	--	--	--
	03/22/06	ug/L	--	--	83	--	--	--	--	--	--
	06/21/06	ug/L	--	--	25	--	--	--	--	--	--
	12/11/06	ug/L	--	--	42	--	--	--	--	--	--
	03/14/07	ug/L	--	--	33	--	--	--	--	--	--
	06/22/07	ug/L	--	--	15	--	--	--	--	--	--
	09/27/07	ug/L	--	--	110	--	--	--	--	--	--
	12/13/07	ug/L	--	--	660	--	--	--	--	--	--
	06/25/08	ug/L	--	--	710	--	--	--	--	--	--
	07/08/08	ug/L	410	--	490	--	460	--	35	--	--
	07/09/08	ug/L	360	--	410	--	360	--	13	--	--
	07/10/08	ug/L	330	--	340	--	310	--	6.4	--	--
	07/15/08	ug/L	290	--	350	--	320	220	3.4	--	--
	07/16/08	ug/L	310	--	320	--	350	--	3.7	--	--
	07/23/08	ug/L	220	--	190	--	220	--	5.2	--	--
	07/30/08	ug/L	230	--	200	--	220	--	6.3	--	--
	08/06/08	ug/L	230	--	190	--	200	--	18	--	6.8
	08/25/08	ug/L	150	--	130	--	140	--	10	--	<0.50
	09/24/08	ug/L	100	--	74	--	91	--	<2	--	--
	10/22/08	ug/L	95	--	120	--	120	--	6.4	--	--

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	11/26/08	ug/L	74	--	110	--	91	--	4.5	--	--
	02/25/09	ug/L	83	--	160	--	120	--	6.4	--	--
	03/18/09	ug/L	54	--	70	--	69	--	2.0	--	--
	04/29/09	ug/L	65	--	80	--	74	--	2.9	--	--
	05/27/09	ug/L	71	--	150	--	110	--	2.5	--	--
	06/29/09	ug/L	68	--	120	--	87	--	2.4	--	--
	07/22/09	ug/L	65	--	120	--	100	--	<2	--	--
	08/14/09	ug/L	72	--	81	--	80	--	2.0	--	--
	09/11/09	ug/L	63	--	120	--	90	--	2.6	--	--
	10/08/09	ug/L	76	--	87	--	82	--	<2	--	--
	12/09/09	ug/L	11	--	490	--	180	--	4.3	--	--
	03/05/10	ug/L	21	--	370	--	--	--	--	--	--
	03/22/10	ug/L	--	--	--	22	--	--	<2	--	--
	03/23/10	ug/L	--	--	--	24	--	--	<2	--	--
	03/24/10	ug/L	--	--	--	25	--	--	<2	--	--
	03/25/10	ug/L	--	--	--	22	--	--	<2	--	--
	03/26/10	ug/L	--	--	--	19	--	--	6.1	--	--
	04/01/10	ug/L	--	--	--	29	--	--	<2	--	--
	04/09/10	ug/L	--	--	--	31	--	--	<2	--	--
	04/13/10	ug/L	--	--	--	43	--	--	<2	--	--
	04/23/10	ug/L	--	--	--	35	--	--	<2	--	--
	05/25/10	ug/L	--	--	--	38	--	--	<1.9	--	--
	06/10/10	ug/L	--	--	--	40	--	--	<2	--	--
	06/11/10	ug/L	40	--	400	--	--	--	--	--	--
	07/08/10	ug/L	--	--	--	48	--	--	<2	--	--
	08/02/10	ug/L	--	--	--	42	--	--	<2	--	--
	09/02/10	ug/L	--	--	--	42	--	--	<2	--	--
	09/08/10	ug/L	74	--	370	--	--	--	--	--	--
	10/07/10	ug/L	--	--	--	39	--	--	<2	--	--
	11/11/10	ug/L	--	--	--	33	--	--	<2	--	--
	12/06/10	ug/L	250	--	--	--	--	--	--	--	--
	12/07/10	ug/L	--	--	220	29	--	--	<2	--	--
	01/13/11	ug/L	--	--	--	29	--	--	6.4	--	--
	02/03/11	ug/L	--	--	--	22	--	--	<2	--	--
	03/02/11	ug/L	--	--	--	16	--	--	0.43	--	--
	03/24/11	ug/L	93	--	64	--	--	--	--	--	--
	04/01/11	ug/L	--	--	--	16	--	--	0.36	--	--
	05/04/11	ug/L	--	--	--	19	--	--	0.35	--	--
	06/07/11	ug/L	--	--	--	20	--	--	0.91	--	0.73
	06/23/11	ug/L	400	30	59	--	--	--	--	--	--
	07/02/11	ug/L	--	--	--	18	--	--	0.46	--	--
	08/01/11	ug/L	--	--	--	21	--	--	0.56	--	--
	08/02/11	ug/L	360	--	80	--	--	--	--	--	--
	09/09/11	ug/L	--	--	--	20	--	--	0.49	--	0.50
	10/17/11	ug/L	--	--	--	19	--	--	0.36	--	--
	11/01/11	ug/L	390	--	54	22	--	--	0.33	--	--
	12/07/11	ug/L	450	--	--	20	120	--	5.2	--	3.4
	01/06/12	ug/L	120	--	--	15	42	--	1.1	--	--
	02/06/12	ug/L	--	--	11	--	--	--	--	--	--
	02/08/12	ug/L	33	--	--	6.4	10	--	0.64	--	--
	03/09/12	ug/L	61	--	--	12	25	--	0.85	--	0.84
	04/16/12	ug/L	--	--	--	14	--	--	0.27	--	--
	05/01/12	ug/L	--	--	--	13	--	--	<0.2	--	--
	05/07/12	ug/L	23	--	7.0	--	--	--	--	--	--
	06/08/12	ug/L	--	--	--	19	--	--	2.2	--	1.9
	07/11/12	ug/L	--	--	--	19	--	--	1.4	--	--

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	08/03/12	ug/L	--	--	--	16	--	--	<0.2	--	--
	08/06/12	ug/L	60	--	42	--	--	--	--	--	--
	09/06/12	ug/L	--	--	--	11	--	--	<0.2	--	<0.2
	10/15/12	ug/L	--	--	--	18	--	--	<0.2	--	--
	11/05/12	ug/L	240	--	83	12	--	--	<0.2	--	--
	12/10/12	ug/L	--	--	--	17	--	--	<0.2	--	0.13
	01/04/13	ug/L	--	--	--	10	--	--	<0.2	--	--
	02/04/13	ug/L	480	--	58	--	--	--	--	--	--
	02/09/13	ug/L	--	--	--	25	--	--	<0.2	--	--
	03/09/13	ug/L	--	--	--	18	--	--	<0.2	--	<0.2
	04/15/13	ug/L	--	--	--	13	--	--	0.33	--	--
	05/07/13	ug/L	--	--	--	22	--	--	0.66	--	--
	05/13/13	ug/L	450	--	41	--	--	--	--	--	--
	06/13/13	ug/L	--	--	--	25	--	--	0.89	--	1.1
	06/17/13	ug/L	--	--	--	--	--	--	--	--	--
	07/02/13	ug/L	--	--	--	27	--	--	0.98	--	--
	08/10/13	ug/L	--	--	--	24	--	--	0.86	--	--
	08/12/13	ug/L	370	--	81	--	--	--	--	--	--
	09/03/13	ug/L	--	--	--	9.7	--	--	0.72	--	1.3
	10/05/13	ug/L	--	--	--	31	--	--	1.4	--	--
	11/01/13	ug/L	--	--	--	28	--	--	0.70	--	--
	11/11/13	ug/L	430	--	130	--	--	--	--	--	--
	12/11/13	ug/L	--	--	--	22	--	--	0.47	--	0.61
	01/17/14	ug/L	--	--	--	21	--	--	4.6	--	--
	02/03/14	ug/L	390	--	140	--	--	--	--	--	--
	02/11/14	ug/L	--	--	--	26	--	--	0.99	--	--
	03/04/14	ug/L	--	--	--	41	--	--	0.68	--	1
	05/20/14	ug/L	--	--	380	--	--	--	--	--	--
	07/30/14	ug/L	--	--	--	--	--	8.3	0.66	--	0.81
	08/01/14	ug/L	--	--	--	--	9.7	--	1.0	--	--
	08/04/14	ug/L	--	--	--	--	12	--	2.2	--	--
	08/05/14	ug/L	--	--	--	--	11	--	0.80	--	--
	08/06/14	ug/L	--	--	--	--	11	--	2.1	--	--
	08/07/14	ug/L	--	--	--	--	11	--	1.8	--	--
	08/08/14	ug/L	--	--	--	--	8.8	--	2.0	--	--
	08/15/14	ug/L	--	--	--	--	13	--	9.8	--	--
	08/18/14	ug/L	360	--	970	--	--	--	--	--	--
	08/22/14	ug/L	--	--	--	--	8.5	--	1.2	--	--
	08/29/14	ug/L	--	--	--	--	15	--	11	--	--
	09/15/14	ug/L	--	--	--	--	--	--	--	--	<0.2
	11/03/14	ug/L	--	97	--	6.3	27	--	11.0	--	--
	11/04/14	ug/L	54	--	1800	--	--	--	--	--	--
	11/19/14	ug/L	--	--	--	--	--	32	<0.2	--	--
	12/11/14	ug/L	--	--	--	--	--	--	--	--	2.1
	12/18/14	ug/L	--	140	--	5.7	33	--	<0.20	--	2.3
	01/19/15	ug/L	--	90	--	12	32	--	0.28	--	0.34
	02/02/15	ug/L	290	--	340	--	--	--	--	--	--
	02/13/15	ug/L	--	180	--	7.8	48	--	1.6	--	0.55
	03/06/15	ug/L	--	120	--	9.2	40	--	<0.20	--	0.39
	04/02/15	ug/L	--	140	--	12	30	--	<0.20	--	0.38
	05/01/15	ug/L	--	130	--	16	40	--	0.62	--	0.54
	05/12/15	ug/L	350	--	180	--	--	--	--	--	--
	06/05/15	ug/L	--	130	--	18	38	--	0.28	--	0.67
	07/14/15	ug/L	--	110	--	19	40	--	0.65	--	0.77
	08/06/15	ug/L	--	130	--	20	43	--	0.57	--	0.9
	08/11/15	ug/L	250	--	300	--	--	--	--	--	--

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	09/03/15	ug/L	--	150	--	17	40	--	0.26	--	0.31
	10/06/15	ug/L	--	130	--	17	46	--	0.43	--	0.39
	11/02/15	ug/L	380	--	240	--	--	--	--	--	--
	11/05/15	ug/L	--	120	--	10	20	--	<0.20	--	<0.20
	12/03/15	ug/L	--	170	--	18	27	--	0.25	--	<0.20
	12/11/15	ug/L	--	100	--	12	31	--	<0.20	<0.20	<0.20
	01/07/16	ug/L	--	110	--	13	33	--	<0.20	--	<0.20
	01/21/16	ug/L	--	110	--	14	38	--	<0.20	<0.20	<0.20
	02/01/16	ug/L	270	110	--	12	31	--	<0.20	--	<0.20
	02/18/16	ug/L	--	100	--	7.7	20	--	<0.20	<0.20	<0.20
	03/03/16	ug/L	--	120	--	11	27	--	<0.2	--	<0.2
	03/17/16	ug/L	--	140	--	11	33	--	<0.2	<0.2	<0.2
	04/05/16	ug/L	--	91	--	7.2	27	--	<0.2	--	<0.2
	04/21/16	ug/L	--	94	--	7.5	24	--	<0.2	<0.2	1.8
	05/02/16	ug/L	220	--	73	--	--	--	--	--	0.42
	05/05/16	ug/L	--	94	--	15	37	--	<0.2	<0.2	<0.2
	05/19/16	ug/L	--	68	--	9.9	33	--	<0.2	<0.2	<0.2
	06/01/16	ug/L	--	110	--	12	33	--	0.2	<0.2	<0.2
	06/16/16	ug/L	--	82	--	7.6	24	--	<0.2	<0.2	<0.2
	07/07/16	ug/L	--	95	--	7.3	25	--	<0.2	<0.2	<0.2
	07/21/16	ug/L	--	81	--	8.4	21	--	<0.2	<0.2	<0.2
	08/01/16	ug/L	250	--	90	--	--	--	--	--	--
	08/04/16	ug/L	--	77	--	6.5	21	--	<0.2	<0.2	<0.2
	08/18/16	ug/L	--	86	--	9.6	26	--	<0.2	<0.2	<0.2
	09/08/16	ug/L	--	77	--	8.1	20	--	<0.2	<0.2	<0.2
	09/15/16	ug/L	--	78	--	7.2	19	--	<0.2	<0.2	<0.2
	10/06/16	ug/L	--	72	--	9.6	22	--	<0.2	<0.2	<0.2
	10/20/16	ug/L	--	71	--	7.8	22	--	<0.2	2.7	2.8
	11/01/16	ug/L	--	73	--	6.6	20	--	<0.2	<0.2	<0.2
	11/08/16	ug/L	220	--	110	--	--	--	--	--	--
	11/17/16	ug/L	--	79	--	7.0	23	--	<0.2	<0.2	<0.2
	12/01/16	ug/L	--	85	--	6.1	24	--	<0.2	<0.2	<0.2
	12/15/16	ug/L	--	85	--	6.3	--	--	--	--	--
	12/16/16	ug/L	--	--	--	--	28	--	<0.2	<0.2	<0.2
	01/06/17	ug/L	--	110	--	4.5	27	--	<0.2	<0.2	<0.2
	01/26/17	ug/L	--	130	--	3.5	36	--	<0.2	<0.2	<0.2
	02/03/17	ug/L	--	--	--	4.5	3.3	--	<0.2	<0.2	<0.2
	02/06/17	ug/L	230	--	36	--	--	--	--	--	--
	02/09/17	ug/L	--	110	--	--	--	--	--	--	--
	02/16/17	ug/L	--	81	--	6.1	21	--	<0.2	<0.2	<0.2
	03/02/17	ug/L	--	78	--	5.0	21	--	<0.2	<0.2	<0.2
	03/16/17	ug/L	--	95	--	<2.0	<2.0	--	<0.2	<0.2	<0.2
	04/06/17	ug/L	--	55	--	2.4	15	--	<0.2	<0.2	<0.2
	04/20/17	ug/L	--	67	--	<2.0	20	--	<0.2	<0.2	<0.2
	05/04/17	ug/L	--	2.7 U	--	95 U	21	--	<0.2	<0.2	<0.2
	05/15/17	ug/L	140	--	110	--	--	--	--	--	--
	05/18/17	ug/L	--	87	--	<2.0	16	--	<2.0	<2.0	<2.0
	06/01/17	ug/L	--	75	--	< 2.0	27	--	<0.2	<0.2	<0.2
	06/15/17	ug/L	--	72	--	5.9	17	--	<0.2	<0.2	<0.2
	07/06/17	ug/L	--	75	--	17	28	--	<0.2	<0.2	<0.2
	07/20/17	ug/L	--	79	--	4.6	19	--	<0.2	<0.2	<0.2
	08/03/17	ug/L	--	73	--	< 2.0	21	--	<0.2	<0.2	<0.2
	08/07/17	ug/L	180	--	43	--	--	--	--	--	--
	08/17/17	ug/L	--	68	--	<2.0	18	--	<0.2	<0.2	<0.2
	09/01/17	ug/L	--	73	--	4.4	20	--	<0.2	<0.2	<0.2
	09/14/17	ug/L	--	82	--	<2.0	22	--	<0.2	<0.2	<0.2

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	10/06/17	ug/L	--	59	--	<2.0	14	--	<0.2	<0.2	<0.2
	10/19/17	ug/L	--	44	--	<2.0	11	--	<0.2	<0.2	<0.2
	11/06/17	ug/L	120 E	31	<2.0	<2.0	<2.0	--	0.32	0.61	<0.2
	11/20/17	ug/L	--	47	--	<2.0	9.9	--	<0.2	<0.2	<0.2
	12/04/17	ug/L	--	42	--	<2.0	11	--	<0.2	<0.2	<0.2
	12/14/17	ug/L	--	53	--	<2.0	10	--	<0.2	<0.2	<0.2
	01/04/18	ug/L	--	32	--	<2.0	7.2	--	<0.2	<0.2	<0.2
	01/18/18	ug/L	--	31	--	<2.0	7.5	--	<0.2	<0.2	<0.2
	02/01/18	ug/L	--	44	--	<2.0	6.8	--	<0.2	<0.2	<0.2
	02/15/18	ug/L	--	55	--	2.7	12	--	<0.2	<0.2	<0.2
	02/27/18	ug/L	49	--	--	--	--	--	--	--	--
	03/15/18	ug/L	--	40	--	<2.0	8.3	--	<0.2	<0.2	<0.2
	03/19/18	ug/L	--	--	14	--	--	--	--	--	--
	03/29/18	ug/L	--	66	--	<2.0	13	--	<0.2	<0.2	<0.2
	04/05/18	ug/L	--	31	--	3.1	7.2	--	<0.2	<0.2	<0.2
	04/19/18	ug/L	--	27	--	<2.0	7.1	--	<0.2	<0.2	<0.2
	05/03/18	ug/L	--	43	--	<2.0	9.4	--	<0.2	<0.2	<0.2
	05/08/18	ug/L	73	--	23	--	--	--	--	--	--
	05/17/18	ug/L	--	47	--	<2.0	8.3	--	<0.2	<0.2	<0.2
	06/07/18	ug/L	--	44	--	<2.0	13	--	<0.2	<0.2	<0.2
	06/21/18	ug/L	--	47	--	7.1	16	--	<0.2	<0.2	<0.2
	07/05/18	ug/L	--	56	--	<2.0	15	--	<0.2	<0.2	<0.2
	07/19/18	ug/L	--	61	--	<2.0	14	--	<0.2	<0.2	<0.2
	08/02/18	ug/L	--	65	--	6.8	16	--	<0.2	<0.2	<0.2
	08/16/18	ug/L	--	62	--	<2.0	14	--	<0.2	<0.2	<0.2
	09/11/18	ug/L	--	70	--	<2.0	21	--	<0.2	<0.2	<0.2
	09/14/18	ug/L	200	--	41	--	--	--	--	--	--
	09/20/18	ug/L	--	72	--	7	18	--	<0.2	<0.2	<0.2
	10/05/18	ug/L	--	97	--	9	22	--	<0.2	<0.2	<0.2
	10/18/18	ug/L	--	--	--	6.3	8	--	<0.2	<0.2	<0.2
	11/01/18	ug/L	--	--	--	7.5	7.5	--	<0.2	<0.2	<0.2
	11/06/18	ug/L	310	--	55	--	--	--	--	--	--
	11/15/18	ug/L	--	140	--	8.4	35	--	<0.2	<0.2	<0.2
	12/04/18	ug/L	--	72	--	5.1	24	--	<0.2	<0.2	<0.2
	12/19/18	ug/L	--	91	--	3.5	18	--	<0.2	<0.2	<0.2
	01/03/19	ug/L	--	110	--	<2.0	25	--	<0.2	<0.2	<0.2
	01/24/19	ug/L	--	110	--	<2.0	29	--	<0.2	<0.2	<0.2
	02/07/19	ug/L	--	93	--	<2.0	23	--	<0.2	<0.2	<0.2
	02/13/19	ug/L	670	--	17	--	--	--	--	--	--
	02/21/19	ug/L	--	120	--	<2.0	25	--	<0.2	<0.2	<0.2
Bromide	07/08/08	ug/L	1100	--	600	--	830	680	800	--	590
	07/09/08	ug/L	830	--	460	--	610	--	610	--	610
	07/10/08	ug/L	820	--	470	--	640	--	600	--	620
	07/15/08	ug/L	890	--	450	--	680	690	610	--	760
	07/16/08	ug/L	640	--	490	--	830	--	600	--	600
	07/23/08	ug/L	910	--	670	--	1100	--	830	--	960
	07/30/08	ug/L	3100	--	1300	--	2400	--	2600	--	2700
	08/06/08	ug/L	910	--	560	--	590	--	590	--	780
	08/25/08	ug/L	870	--	390	--	620	--	590	--	580
	09/24/08	ug/L	710	--	320	--	510	--	490	--	550
	10/22/08	ug/L	970	--	610	--	750	--	700	--	700
	11/26/08	ug/L	1100	--	740	--	1000	--	1000	--	880
	02/25/09	ug/L	2000	--	410	--	580	--	580	--	570
	03/18/09	ug/L	900	--	440	--	670	--	660	--	610
	04/29/09	ug/L	960	--	380	--	650	--	650	--	720
	05/27/09	ug/L	1000	--	380	--	660	--	670	--	680

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	06/29/09	ug/L	1200	--	300	--	560	--	630	--	650
	07/22/09	ug/L	1100	--	430	--	870	--	820	--	830
	08/14/09	ug/L	1600	--	480	--	1100	--	1100	--	1100
	09/11/09	ug/L	970	--	490	--	620	--	590	--	1000
	10/08/09	ug/L	1100	--	420	--	910	--	770	--	820
	12/09/09	ug/L	1400	--	540	--	920	--	880	--	980
	03/22/10	mg/L	--	--	--	0.36	--	--	0.35	--	0.36
	03/23/10	mg/L	--	--	--	0.36	--	--	0.35	--	0.33
	03/24/10	mg/L	--	--	--	0.34	--	--	0.33	--	0.32
	03/25/10	mg/L	--	--	--	0.32	--	--	0.32	--	0.32
	03/26/10	mg/L	--	--	--	0.33	--	--	0.31	--	0.31
	04/01/10	mg/L	--	--	--	0.36	--	--	0.31	--	0.34
	04/09/10	mg/L	--	--	--	0.31	--	--	0.30	--	0.29
	04/13/10	mg/L	--	--	--	0.37	--	--	0.33	--	0.32
	04/23/10	mg/L	--	--	--	0.30	--	--	0.38	--	0.3
	05/25/10	mg/L	--	--	--	0.45	--	--	0.33	--	0.34
	06/10/10	mg/L	--	--	--	0.34	--	--	0.33	--	0.33
	07/08/10	mg/L	--	--	--	0.30	--	--	0.33	--	0.33
	08/02/10	mg/L	--	--	--	0.27	--	--	0.28	--	0.28
	09/02/10	mg/L	--	--	--	0.25	--	--	0.27	--	0.23
	10/07/10	mg/L	--	--	--	0.25	--	--	0.26	--	0.25
	11/11/10	mg/L	--	--	--	0.20	--	--	0.19	--	0.18
	12/07/10	mg/L	--	--	--	0.28	--	--	0.27	--	0.28
	01/13/11	mg/L	--	--	--	0.25	--	--	0.24	--	0.26
	02/03/11	mg/L	--	--	--	0.22	--	--	0.22	--	0.22
	03/02/11	mg/L	--	--	--	0.23	--	--	0.23	--	0.22
	04/01/11	mg/L	--	--	--	0.16	--	--	0.15	--	0.16
	05/04/11	mg/L	--	--	--	3.0	--	--	3.00	--	3.2
	06/07/11	mg/L	--	--	--	3.2	--	--	3.30	--	3.2
	07/02/11	mg/L	--	--	--	0.64	--	--	0.65	--	0.64
	08/01/11	mg/L	--	--	--	2.3	--	--	2.30	--	2.3
	09/09/11	mg/L	--	--	--	0.48	--	--	0.50	--	0.52
	10/17/11	mg/L	--	--	--	0.48	--	--	0.47	--	0.47
	11/01/11	mg/L	--	--	--	0.43	--	--	0.42	--	0.43
	12/07/11	mg/L	0.51	--	--	0.15	0.23	--	0.24	--	0.23
	01/06/12	mg/L	3.5	--	--	0.80	1.4	--	1.50	--	1.4
	02/08/12	mg/L	1.1	--	--	0.23	0.46	--	0.43	--	0.44
	03/09/12	mg/L	1.2	--	--	0.21	0.44	--	0.44	--	0.44
	04/16/12	mg/L	--	--	--	0.19	--	--	0.19	--	0.21
	05/01/12	mg/L	--	--	--	0.28	--	--	0.28	--	0.31
	06/08/12	mg/L	--	--	--	0.19	--	--	0.19	--	0.18
	07/11/12	mg/L	--	--	--	0.19	--	--	0.19	--	0.19
	08/03/12	mg/L	--	--	--	0.52	--	--	0.50	--	0.19
	09/06/12	mg/L	--	--	--	0.19	--	--	0.19	--	0.21
	10/15/12	mg/L	--	--	--	0.20	--	--	0.20	--	0.19
	11/05/12	mg/L	--	--	--	0.20	--	--	0.20	--	0.19
	12/10/12	mg/L	--	--	--	0.18	--	--	0.17	--	0.17
	01/04/13	mg/L	--	--	--	0.07	--	--	0.21	--	0.22
	02/09/13	mg/L	--	--	--	0.19	--	--	0.21	--	0.19
	03/09/13	mg/L	--	--	--	0.21	--	--	0.23	--	0.21
	04/15/13	mg/L	--	--	--	0.22	--	--	0.20	--	0.21
	05/07/13	mg/L	--	--	--	0.19	--	--	0.20	--	0.18
	06/13/13	mg/L	--	--	--	0.21	--	--	0.21	--	0.21
	07/02/13	mg/L	--	--	--	0.17	--	--	0.18	--	0.19
	08/10/13	mg/L	--	--	--	0.17	--	--	0.15	--	0.14
	09/03/13	mg/L	--	--	--	0.46	--	--	0.46	--	0.46

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	10/05/13	mg/L	--	--	--	0.21	--	--	0.20	--	0.23
	11/01/13	mg/L	--	--	--	0.22	--	--	0.23	--	0.23
	12/11/13	mg/L	--	--	--	0.22	--	--	0.21	--	0.2
	01/17/14	mg/L	--	--	--	0.21	--	--	0.21	--	0.21
	02/11/14	mg/L	--	--	--	0.24	--	--	0.22	--	0.2
	03/04/14	mg/L	--	--	--	0.21	--	--	0.18	--	0.19
	08/01/14	mg/L	--	--	--	--	<0.05	--	--	--	--
	08/08/14	mg/L	--	--	--	--	0.41	--	--	--	--
	11/03/14	mg/L	--	0.47	--	0.22	0.27	--	--	--	--
	12/18/14	mg/L	--	<0.01	--	<0.01	<0.01	--	--	--	--
	01/19/15	mg/L	--	0.54	--	0.27	0.33	--	--	--	--
	02/13/15	mg/L	--	0.48	--	0.19	0.25	--	--	--	--
	03/06/15	mg/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	04/02/15	mg/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/01/15	mg/L	--	0.95	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	05/12/15	mg/L	10	--	1.6	--	--	--	--	--	--
	06/05/15	mg/L	--	0.98	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	07/14/15	mg/L	--	0.99	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/06/15	mg/L	--	1.0	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	08/11/15	mg/L	8.4	--	3.6	--	--	--	--	--	--
	09/03/15	mg/L	--	0.94	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	10/06/15	mg/L	--	1.2	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	11/02/15	mg/L	7.3	--	4.2	--	--	--	--	--	--
	11/05/15	mg/L	--	1.1	--	<0.50	<0.50	--	<0.50	<0.50	<0.50
	12/03/15	mg/L	--	0.66	--	0.31	0.32	--	--	--	--
	01/07/16	mg/L	--	0.56	--	0.24	0.31	--	--	--	--
	02/01/16	mg/L	--	0.41	--	0.20	0.24	--	--	--	--
	03/03/16	mg/L	--	0.46	--	0.23	0.22	--	--	--	--
	04/05/16	mg/L	--	0.48	--	0.23	0.28	--	--	--	--
	05/05/16	mg/L	--	0.43	--	0.22	0.27	--	--	--	--
	06/01/16	mg/L	--	0.88	--	0.43	0.48	--	--	--	--
	07/07/16	mg/L	--	0.66	--	0.32	0.29	--	--	--	--
	08/04/16	mg/L	--	0.52	--	0.24	0.3	--	--	--	--
	09/08/16	mg/L	--	0.35	--	0.34	0.38	--	--	--	--
	10/06/16	mg/L	--	0.26	--	0.15	0.17	--	--	--	--
	11/01/16	mg/L	--	0.26	--	0.12	0.15	--	--	--	--
	12/01/16	mg/L	--	0.18	--	0.10	0.11	--	--	--	--
	01/06/17	mg/L	--	43	--	22	25	--	--	--	--
	02/03/17	mg/L	--	--	--	0.42	0.42	--	--	--	--
	03/02/17	mg/L	--	0.94	--	0.63	0.71	--	--	--	--
	04/06/17	mg/L	--	0.33	--	0.18	0.22	--	--	--	--
	05/04/17	mg/L	--	0.51	--	0.27	0.32	--	--	--	--
	06/01/17	mg/L	--	0.35	--	0.21	0.23	--	--	--	--
	07/06/17	mg/L	--	0.41	--	0.20	0.27	--	--	--	--
	08/03/17	mg/L	--	0.35	--	0.18	0.22	--	--	--	--
	09/01/17	mg/L	--	0.43	--	< 0.25	0.29	--	--	--	--
	10/06/17	mg/L	--	0.30	--	0.18	0.19	--	--		
	11/06/17	mg/L	--	0.32	--	0.21	0.23	--	--	--	--
	12/04/17	mg/L	--	0.26	--	0.17	0.18	--	--	--	--
	01/04/18	mg/L	--	0.32	--	0.20	0.23	--	--	--	--
	02/01/18	mg/L	--	0.33	--	0.19	0.21	--	--	--	--
	03/15/18	mg/L	--	0.33	--	0.18	0.21	--	--	--	--
	04/05/18	mg/L	--	0.40	--	0.20	0.23	--	--		
	05/03/18	mg/L	--	0.37	--	0.21	0.23	--	--	--	--
	06/07/18	mg/L	--	0.59	--	0.35	0.39	--	--	--	--
	07/05/18	mg/L	--	0.39	--	0.21	0.25	--	--	--	--

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	08/02/18	mg/L	--	0.44	--	0.25	0.28	--	--	--	--
	09/11/18	mg/L	--	0.47	--	0.26	0.3	--	--	--	--
	10/05/18	mg/L	--	0.66	--	0.32	0.37	--	--	--	--
	11/01/18	mg/L	--	--	--	0.26	0.26	--	--	--	--
	12/04/18	mg/L	--	0.48	--	0.26	0.32	--	--	--	--
	01/03/19	mg/L	--	0.46	--	0.26	0.30	--	--	--	--
	02/07/19	mg/L	--	0.43	--	0.24	0.29	--	--	--	--
Bromate	06/22/05	ug/L	--	--	500	--	--	--	--	--	--
(10 ug/L MCL)	07/08/08	ug/L	<4	--	<4	--	<4	<0.50	<4	--	<4
	07/09/08	ug/L	<4	--	<4	--	<4	--	19	--	<4
	07/10/08	ug/L	<4	--	<4	--	6.0	--	44	--	18
	07/15/08	ug/L	<4	--	<4	--	<4	<4	77	--	<4
	07/16/08	ug/L	<4	--	<4	--	<4	--	61	--	47
	07/23/08	ug/L	<4	--	<4	--	<4	--	<4	--	63
	07/30/08	ug/L	<4	--	<4	--	<4	--	<4	--	23
	08/06/08	ug/L	<4	--	<4	--	<4	--	5.0	--	<4
	08/25/08	ug/L	<5.0	--	<5.0	--	<5.0	--	7.8	--	17
	09/24/08	ug/L	<0.50	--	<0.50	--	<0.50	--	59	--	39
	10/22/08	ug/L	<0.50	--	<0.50	--	<5.0	--	<25	--	<5
	10/23/08	ug/L	<4	--	0.61	--	<4	--	--	--	--
	11/26/08	ug/L	<4	--	<4	--	<4	--	<4	--	<4
	02/25/09	ug/L	<4	--	<4	--	<4	--	5.0	--	<4
	03/18/09	ug/L	<4	--	<4	--	<4	--	22	--	7.0
	04/29/09	ug/L	<4	--	<4	--	6.0	--	31	--	34
	05/27/09	ug/L	<4	--	<4	--	<4	--	24	--	26
	06/29/09	ug/L	<4	--	<4	--	<4	--	18	--	15
	07/22/09	ug/L	<4	--	<4	--	<4	--	15	--	26
	08/14/09	ug/L	<4	--	<4	--	<4	--	<4	--	39
	09/11/09	ug/L	<4	--	<4	--	<4	--	9.0	--	22
	10/08/09	ug/L	<4	--	<4	--	<4	--	17	--	24
	12/09/09	ug/L	<4	--	<4	--	<4	--	18	--	23
	03/22/10	ug/L	--	--	--	<0.9	--	--	13.1	--	4.2
	03/23/10	ug/L	--	--	--	<0.5	--	--	16.4	--	30.1
	03/24/10	ug/L	--	--	--	<0.5	--	--	10.5	--	12.4
	03/25/10	ug/L	--	--	--	<0.5	--	--	11.6	--	10.3
	03/26/10	ug/L	--	--	--	<0.5	--	--	8.7	--	5.3
	04/01/10	ug/L	--	--	--	<0.5	--	--	12.7	--	<0.5
	04/09/10	ug/L	--	--	--	<0.5	--	--	9.6	--	10.5
	04/13/10	ug/L	--	--	--	<0.5	--	--	7.3	--	8.4
	04/23/10	ug/L	--	--	--	<0.5	--	--	7.4	--	7.0
	05/25/10	ug/L	--	--	--	<0.5	--	--	6.8	--	7.0
	06/10/10	ug/L	--	--	--	<0.5	--	--	7.7	--	6.6
	07/08/10	ug/L	--	--	--	0.6	--	--	7.3	--	6.7
	08/02/10	ug/L	--	--	--	<0.5	--	--	6.8	--	6.8
	09/02/10	ug/L	--	--	--	<0.5	--	--	7.0	--	7.3
	10/07/10	ug/L	--	--	--	<0.5	--	--	10.9	--	7.1
	11/11/10	ug/L	--	--	--	<0.5	--	--	7.0	--	11
	12/07/10	ug/L	--	--	--	<0.5	--	--	4.8	--	3.5
	01/13/11	ug/L	--	--	--	<0.5	--	--	9.3	--	7.9
	02/03/11	ug/L	--	--	--	<0.5	--	--	7.2	--	7.0
	03/02/11	ug/L	--	--	--	<0.5	--	--	10	--	8.4
	04/01/11	ug/L	--	--	--	<0.5	--	--	7.9	--	7.3
	05/04/11	ug/L	--	--	--	<0.5	--	--	8.6	--	8.0
	06/07/11	ug/L	--	--	--	<0.5	--	--	8.0	--	3.2
	07/02/11	ug/L	--	--	--	<0.5	--	--	6.5	--	4.1
	08/01/11	ug/L	--	--	--	<0.5	--	--	6.4	--	5.5

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	09/09/11	ug/L	--	--	--	<0.5	--	--	8.1	--	11.9
	10/17/11	ug/L	--	--	--	<0.5	--	--	9.9	--	9.1
	11/01/11	ug/L	--	--	--	<0.5	--	--	12	--	7.9
	12/07/11	ug/L	<0.5	--	--	<0.5	<0.5	--	12	--	9.3
	01/06/12	ug/L	0.7	--	--	<0.5	1.0	--	14	--	7.3
	02/08/12	ug/L	<0.5	--	--	<0.5	<0.5	--	14	--	7.3
	03/09/12	ug/L	<0.5	--	--	<0.5	<0.5	--	12	--	12
	04/16/12	ug/L	--	--	--	<0.5	--	--	6.0	--	7.1
	05/01/12	ug/L	--	--	--	<0.5	--	--	8.0	--	6.3
	06/08/12	ug/L	--	--	--	<0.5	--	--	7.0	--	3.1
	07/11/12	ug/L	--	--	--	<0.5	--	--	5.0	--	4.2
	08/03/12	ug/L	--	--	--	<0.5	--	--	5.7	--	5.4
	09/06/12	ug/L	--	--	--	<0.5	--	--	6.7	--	7.1
	10/15/12	ug/L	--	--	--	<0.5	--	--	7.7	--	8.4
	11/05/12	ug/L	--	--	--	<0.5	--	--	5.4	--	6.7
	12/10/12	ug/L	--	--	--	<0.5	--	--	8.0	--	5.5
	01/04/13	ug/L	--	--	--	0.3	--	--	9.0	--	7.5
	02/09/13	ug/L	--	--	--	0.4	--	--	9.0	--	6.6
	03/09/13	ug/L	--	--	--	0.4	--	--	8.0	--	6.6
	04/15/13	ug/L	--	--	--	<0.3	--	--	7.0	--	5.0
	05/07/13	ug/L	--	--	--	0.3	--	--	9.0	--	6.1
	06/17/13	ug/L	--	--	--	<0.3	--	--	5.0	--	4.9
	07/03/13	ug/L	--	--	--	<0.3	--	--	5.0	--	4.2
	08/10/13	ug/L	--	--	--	0.3	--	--	6.0	--	5.1
	09/03/13	ug/L	--	--	--	0.3	--	--	5.0	--	4.8
	10/05/13	ug/L	--	--	--	0.3	--	--	8.0	--	6.2
	11/01/13	ug/L	--	--	--	0.4	--	--	6.0	--	4.9
	12/11/13	ug/L	--	--	--	0.4	--	--	8.0	--	6.5
	01/17/14	ug/L	--	--	--	0.3	--	--	5.0	--	5.0
	02/11/14	ug/L	--	--	--	0.3	--	--	6.0	--	5.7
	03/04/14	ug/L	--	--	--	0.6	--	--	5.0	--	5.1
	08/01/14	ug/L	--	--	--	--	--	--	1.1	--	--
	08/04/14	ug/L	--	--	--	--	--	--	1.0	--	--
	08/05/14	ug/L	--	--	--	--	--	--	0.3	--	--
	08/06/14	ug/L	--	--	--	--	--	--	1.0	--	--
	08/07/14	ug/L	--	--	--	--	--	--	0.3	--	--
	08/08/14	ug/L	--	--	--	--	--	--	0.4	--	--
	08/15/14	ug/L	--	--	--	--	--	--	2.0	--	--
	08/22/14	ug/L	--	--	--	--	--	--	0.6	--	--
	08/29/14	ug/L	--	--	--	--	--	--	0.6	--	--
	11/03/14	ug/L	--	--	--	--	--	--	0.4	--	--
	12/18/14	ug/L	--	--	--	--	--	--	<0.3	--	--
	01/19/15	ug/L	--	--	--	--	--	--	<0.3	--	--
	02/13/15	ug/L	--	--	--	--	--	--	<0.3	--	--
	03/06/15	ug/L	--	--	--	--	--	--	<0.3	--	--
	04/02/15	ug/L	--	--	--	--	--	--	<0.3	--	--
	05/01/15	ug/L	--	--	--	--	--	--	0.7	--	--
	06/05/15	ug/L	--	--	--	--	--	--	0.5	--	--
	07/14/15	ug/L	--	--	--	--	--	--	<0.3	--	--
	08/06/15	ug/L	--	--	--	--	--	--	<0.3	--	--
	09/03/15	ug/L	--	--	--	--	--	--	<0.50	--	--
	10/06/15	ug/L	--	--	--	--	--	--	0.6	--	--
	11/05/15	ug/L	--	--	--	--	--	--	<0.50	--	--
	12/03/15	ug/L	--	--	--	--	--	--	<0.3	--	--
	01/07/16	ug/L	--	--	--	--	--	--	<0.3	--	--
	02/01/16	ug/L	--	--	--	--	--	--	<0.5	--	--

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SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	03/03/16	ug/L	--	--	--	--	--	--	<1.0	--	--
	04/05/16	ug/L	--	--	--	--	--	--	<0.5	--	--
	05/05/16	ug/L	--	--	--	--	--	--	<0.5	--	--
	06/01/16	ug/L	--	--	--	--	--	--	<0.5	--	--
	07/07/16	ug/L	--	--	--	--	--	--	<0.5	--	--
	08/04/16	ug/L	--	--	--	--	--	--	<0.5	--	--
	09/08/16	ug/L	--	--	--	--	--	--	<1.0	--	--
	10/06/16	ug/L	--	--	--	--	<1.0	--	<1.0	--	--
	11/01/16	ug/L	--	--	--	--	<0.2	--	<0.2	--	--
	12/01/16	ug/L	--	--	--	--	<0.3	--	<0.3	--	--
	01/06/17	ug/L	--	--	--	--	<0.3	--	<0.3	--	--
	02/03/17	ug/L	--	--	--	--	<0.3	--	<0.3	--	--
	03/02/17	ug/L	--	--	--	--	0.3	--	<0.3	--	--
	04/06/17	ug/L	--	--	--	--	<0.3	--	<0.3	--	--
	05/04/17	ug/L	--	--	--	--	0.3	--	<0.3	--	--
	06/01/17	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	07/06/17	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	08/03/17	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	09/01/17	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	10/06/17	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	11/06/17	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	12/04/17	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	01/04/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	02/01/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	03/15/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	04/05/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	05/03/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	06/07/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	07/05/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	08/02/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	09/11/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	10/05/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	11/01/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	12/04/18	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	01/03/19	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
	02/07/19	ug/L	--	--	--	--	< 0.5	--	< 0.5	--	--
Total Non-Filterable Residue	07/08/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	07/09/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	07/10/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	07/15/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	07/16/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	07/23/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	07/30/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	08/06/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	08/25/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	09/24/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	10/22/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	11/26/08	mg/L	<10	--	<10	--	<10	<10	--	--	--
	02/25/09	mg/L	<10	--	<10	--	<10	<10	--	--	--
	03/18/09	mg/L	<10	--	<10	--	<10	<10	--	--	--
	04/29/09	mg/L	<10	--	<10	--	<10	<10	--	--	--
	05/27/09	mg/L	<10	--	<10	--	<10	<10	--	--	--
	06/29/09	mg/L	<10	--	<10	--	<10	<10	--	--	--
	07/22/09	mg/L	<10	--	<10	--	<10	<10	--	--	--
	08/14/09	mg/L	<10	--	<10	--	<10	<10	--	--	--
	09/11/09	mg/L	<10	--	<10	--	<10	<10	--	--	--

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SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	10/08/09	mg/L	<10	--	<10	--	<10	<10	--	--	--
	12/09/09	mg/L	<10	--	<10	--	<10	<10	--	--	--
	03/22/10	mg/L	--	--	--	<10	--	<10	--	--	--
	05/25/10	mg/L	--	--	--	<10	--	<10	--	--	--
	06/10/10	mg/L	--	--	--	<10	--	<10	--	--	--
	07/08/10	mg/L	--	--	--	<10	--	<10	--	--	--
	08/02/10	mg/L	--	--	--	<10	--	<10	--	--	--
	09/02/10	mg/L	--	--	--	<10	--	<10	--	--	--
	10/07/10	mg/L	--	--	--	<10	--	<10	--	--	--
	11/11/10	mg/L	--	--	--	<10	--	<10	--	--	--
	12/07/10	mg/L	--	--	--	<10	--	<10	--	--	--
	01/13/11	mg/L	--	--	--	<10	--	<10	--	--	--
	02/03/11	mg/L	--	--	--	<10	--	<10	--	--	--
	03/02/11	mg/L	--	--	--	<10	--	<10	--	--	--
	04/01/11	mg/L	--	--	--	<10	--	<10	--	--	--
	05/04/11	mg/L	--	--	--	<10	--	<10	--	--	--
	06/07/11	mg/L	--	--	--	<10	--	<10	--	--	--
	07/02/11	mg/L	--	--	--	<10	--	<10	--	--	--
	08/01/11	mg/L	--	--	--	<10	--	<10	--	--	--
	09/09/11	mg/L	--	--	--	<10	--	<10	--	--	--
	10/17/11	mg/L	--	--	--	<10	--	<10	--	--	--
	11/01/11	mg/L	--	--	--	<10	--	<10	--	--	--
	12/18/14	mg/L	--	--	--	--	--	<3.7	--	--	--
	01/19/15	mg/L	--	--	--	--	--	<4.3	--	--	--
	02/13/15	mg/L	--	--	--	--	--	<4.0	--	--	--
	03/06/15	mg/L	--	--	--	--	--	<4.0	--	--	--
	04/02/15	mg/L	--	--	--	--	--	<3.7	--	--	--
	05/01/15	mg/L	--	--	--	--	--	<3.7	--	--	--
	06/05/15	mg/L	--	--	--	--	--	<3.7	--	--	--
	07/14/15	mg/L	--	--	--	--	--	<3.8	--	--	--
	08/06/15	mg/L	--	--	--	--	--	<4.0	--	--	--
	09/03/15	mg/L	--	--	--	--	--	<6.70	--	--	--
	10/06/15	mg/L	--	--	--	--	--	<1.10	--	--	--
	11/05/15	mg/L	--	--	--	--	--	<1.40	--	--	--
	12/03/15	mg/L	--	--	--	--	--	<1.0	--	--	--
	01/07/16	mg/L	--	--	--	--	--	<2.0	--	--	--
	02/01/16	mg/L	--	--	--	--	--	<1.0	--	--	--
	03/03/16	mg/L	--	--	--	--	--	<1.0	--	--	--
	04/05/16	mg/L	--	--	--	--	--	<1.0	--	--	--
	05/05/16	mg/L	--	--	--	--	--	<1.0	--	--	--
	06/01/16	mg/L	--	--	--	--	--	<1.0	<0.5	--	--
	07/07/16	mg/L	--	--	--	--	--	<1.0	--	--	--
	08/04/16	mg/L	--	--	--	--	--	<1.0	--	--	--
	09/08/16	mg/L	--	--	--	--	--	<1.0	--	--	--
	10/06/16	mg/L	--	--	--	--	--	<1.0	--	--	--
	11/01/16	mg/L	--	--	--	--	--	<1.1	--	--	--
	12/01/16	mg/L	--	--	--	--	--	<1.1	--	--	--
	01/06/17	mg/L	--	--	--	--	--	<1.1	--	--	--
	02/03/17	mg/L	--	--	--	--	--	<1.1	--	--	--
	03/02/17	mg/L	--	--	--	--	--	<1.1	--	--	--
	04/06/17	mg/L	--	--	--	--	--	<1.1	--	--	--
	05/04/17	mg/L	--	--	--	--	--	<1.1	--	--	--
	06/01/17	mg/L	--	--	--	--	--	< 2.0	--	--	--
	07/06/17	mg/L	--	--	--	--	--	< 1.0	--	--	--
	08/03/17	mg/L	--	--	--	--	--	< 1.0	--	--	--
	09/01/17	mg/L	--	--	--	--	--	< 1.0	--	--	--

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

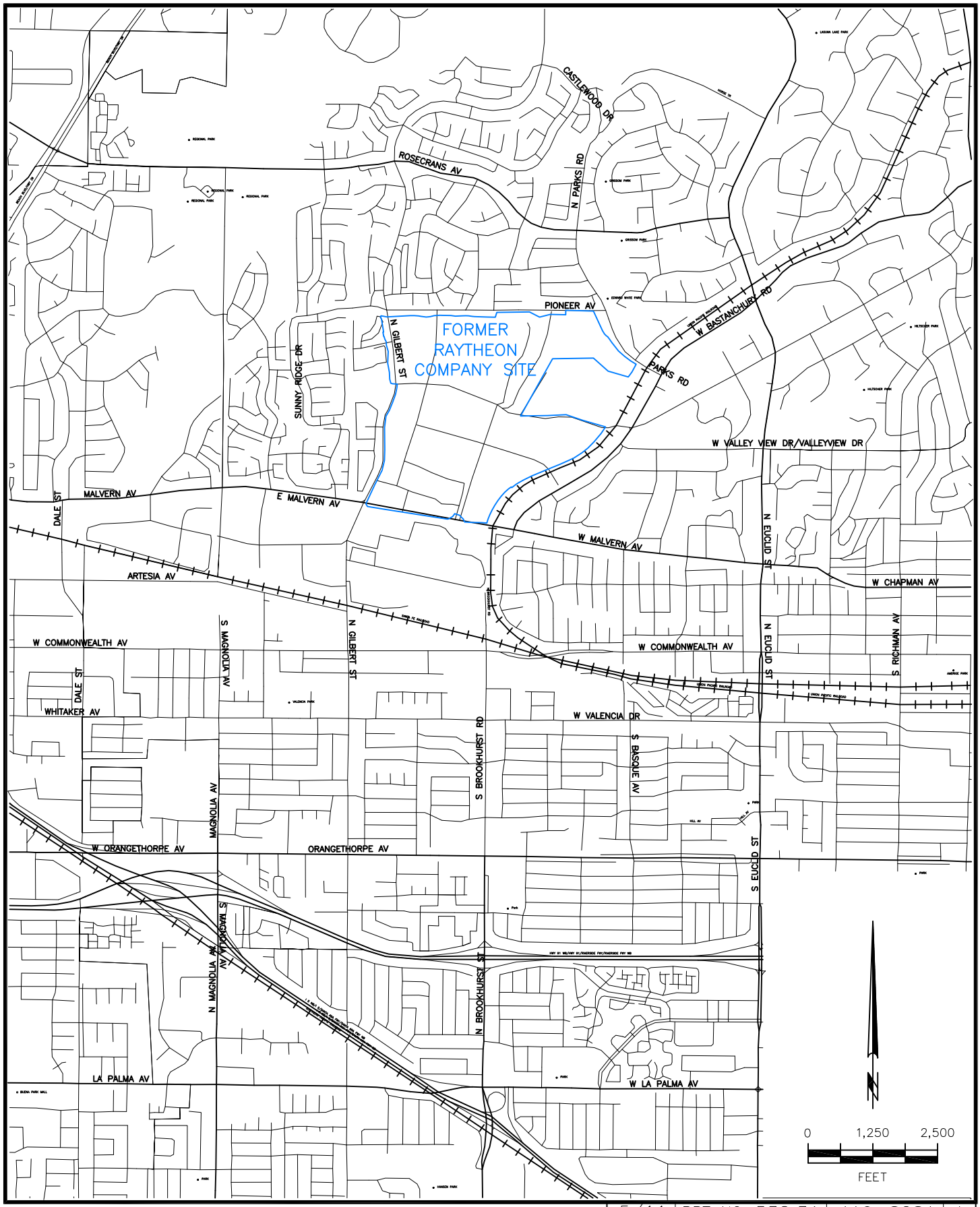
Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	10/06/17	mg/L	--	--	--	--	--	< 1.0	--	--	--
	11/06/17	mg/L	--	--	--	--	--	< 1.0	--	--	--
	12/04/17	mg/L	--	--	--	--	--	< 1.0	--	--	--
	01/04/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	02/01/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	03/15/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	04/05/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	05/03/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	06/07/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	07/05/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	08/02/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	09/11/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	10/05/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	11/01/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	12/04/18	mg/L	--	--	--	--	--	< 1.0	--	--	--
	01/03/19	mg/L	--	--	--	--	--	< 1.0	--	--	--
	02/07/19	mg/L	--	--	--	--	--	< 1.0	--	--	--
Total Filterable Residue	07/08/08	mg/L	1000	--	770	--	870	--	880	--	--
(500 mg/L MCL)	07/09/08	mg/L	1100	--	830	--	930	--	960	--	--
	07/10/08	mg/L	1100	--	830	--	970	--	950	--	--
	07/15/08	mg/L	1200	--	840	--	1000	--	1000	--	--
	07/16/08	mg/L	1200	--	890	--	1100	--	1000	--	--
	07/23/08	mg/L	1100	--	850	--	980	--	940	--	--
	07/30/08	mg/L	1100	--	800	--	910	--	890	--	--
	08/06/08	mg/L	940	--	710	--	810	--	810	--	--
	08/25/08	mg/L	1000	--	740	--	860	--	870	--	--
	09/24/08	mg/L	960	--	770	--	810	--	840	--	830
	10/22/08	mg/L	910	--	790	--	860	--	860	--	850
	11/26/08	mg/L	870	--	770	--	840	--	850	--	860
	02/25/09	mg/L	840	--	770	--	810	--	840	--	860
	03/18/09	mg/L	890	--	780	--	830	--	840	--	860
	04/29/09	mg/L	1000	--	800	--	930	--	910	--	940
	05/27/09	mg/L	1200	--	790	--	910	--	910	--	880
	06/29/09	mg/L	1100	--	740	--	920	--	830	--	880
	07/22/09	mg/L	1100	--	800	--	940	--	620	--	930
	08/14/09	mg/L	1200	--	770	--	950	--	920	--	940
	09/11/09	mg/L	1200	--	810	--	1000	--	940	--	1300
	10/08/09	mg/L	1100	--	790	--	950	--	940	--	960
	12/09/09	mg/L	1200	--	820	--	1100	--	1100	--	1100
	03/22/10	mg/L	--	--	--	760	--	--	--	--	--
	03/24/10	mg/L	--	--	--	--	--	--	--	--	680
	05/25/10	mg/L	--	--	--	660	--	--	660	--	650
	06/10/10	mg/L	--	--	--	670	--	--	670	--	660
	07/08/10	mg/L	--	--	--	660	--	--	650	--	660
	08/02/10	mg/L	--	--	--	660	--	--	650	--	660
	09/02/10	mg/L	--	--	--	650	--	--	650	--	640
	10/07/10	mg/L	--	--	--	700	--	--	680	--	700
	11/11/10	mg/L	--	--	--	660	--	--	650	--	660
	12/07/10	mg/L	--	--	--	660	--	--	650	--	660
	01/13/11	mg/L	--	--	--	670	--	--	680	--	670
	02/03/11	mg/L	--	--	--	670	--	--	710	--	700
	03/02/11	mg/L	--	--	--	660	--	--	670	--	680
	04/01/11	mg/L	--	--	--	650	--	--	650	--	640
	05/04/11	mg/L	--	--	--	680	--	--	690	--	680
	06/07/11	mg/L	--	--	--	660	--	--	650	--	650
	07/02/11	mg/L	--	--	--	650	--	--	630	--	640

TABLE 8

SELECT COMPOUNDS MONITORED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
HISTORICAL DATA

Compound	Date	Units	MW-21	MW-29	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
	08/01/11	mg/L	--	--	--	640	--	--	650	--	650
	09/09/11	mg/L	--	--	--	670	--	--	670	--	660
	10/17/11	mg/L	--	--	--	630	--	--	640	--	640
	11/01/11	mg/L	--	--	--	640	--	--	630	--	640
	12/18/14	mg/L	--	860	--	660	690	--	640	--	640
	03/06/15	mg/L	--	820	--	600	640	--	670	--	640
	06/05/15	mg/L	--	790	--	680	700	--	680	--	700
	09/03/15	mg/L	--	750	--	650	680	--	670	--	680
	12/03/15	mg/L	--	860	--	620	640	--	630	--	630
	03/03/16	mg/L	--	800	--	600	640	--	650	--	650
	06/01/16	mg/L	--	830	--	640	690	--	680	--	700
	09/08/16	mg/L	--	910	--	690	710	--	700	--	680
	12/01/16	mg/L	--	980	--	630	670	--	670	--	660
	03/02/17	mg/L	--	750	--	620	650	--	650	--	660
	06/01/17	mg/L	--	830	--	650	680	--	680	--	670
	09/01/17	mg/L	--	858	--	627	680	--	699	--	660
	12/04/17	mg/L	--	700	--	590	610	--	590	--	610
	03/15/18	mg/L	--	850	--	670	700	--	700	--	700
	06/07/18	mg/L	--	820	--	650	680	--	680	--	660
	09/11/18	mg/L	--	810	--	650	680	--	670	--	670
	12/04/18	mg/L	--	1300	--	630	670	--	660	--	670

FOOTNOTES
MCL = Maximum Contaminant Level or Drinking Water Action Level, if applicable
ug/L = Micrograms per liter
mg/L = Milligrams per liter
(--) = Not scheduled for performance monitoring
(<) = Less than; the numerical value is the Limit of Detection for that compound
MW - Monitor Well(s)
EW- Extraction Well(s)
INF* = Influent (same as EW-02, when active)
PF = Post Particulate Filter
POX = Post Hipox Oxidation
CBT = Carbon Breakthrough
CEFF = Carbon Effluent
E = Data qualified as Estimated in accordance with quality control criteria



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HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

5/11	RPT NO. 532.31	410-8281	A

FIGURE 1. SITE LOCATION

EXPLANATION

- MW-09 — GROUNDWATER MONITOR WELL
- MW-25 — GROUNDWATER PIEZOMETER
- P-09 — PERCHED ZONE PIEZOMETER
- EW-01 — GROUNDWATER EXTRACTION WELL
- MW-10 — FORMER GROUNDWATER MONITOR WELL (ABANDONED)
- P-04 — FORMER PERCHED ZONE PIEZOMETER (ABANDONED)
- DPE-05 — FORMER PERCHED ZONE DUAL-PHASE EXTRACTION WELL (ABANDONED)
- EB-01 — FORMER GROUNDWATER ASSESSMENT SOIL BORING (ABANDONED)
- PGETS — PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM FACILITY COMPOUND
- 609 — FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000
- CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
- DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT
- SITE BOUNDARY

SEE DETAIL BELOW

DETAIL AREA

0 250 500 FEET

0 50 100 FEET

CITY OF FULLERTON WELL NO. 9

OCWD AIRPORT TEST WELL 3S/11W-36A6

Oct 08, 2014 - 3:14pm ESS - T:\2014\500-599\532 Raytheon\Hydrogeology\H+A BaseMaps\410-9312.dwg

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Hydrogeology/Engineering

10/14	RPT NO. 532.31	410-9312	A

FIGURE 2.
WELL AND PIEZOMETER LOCATIONS

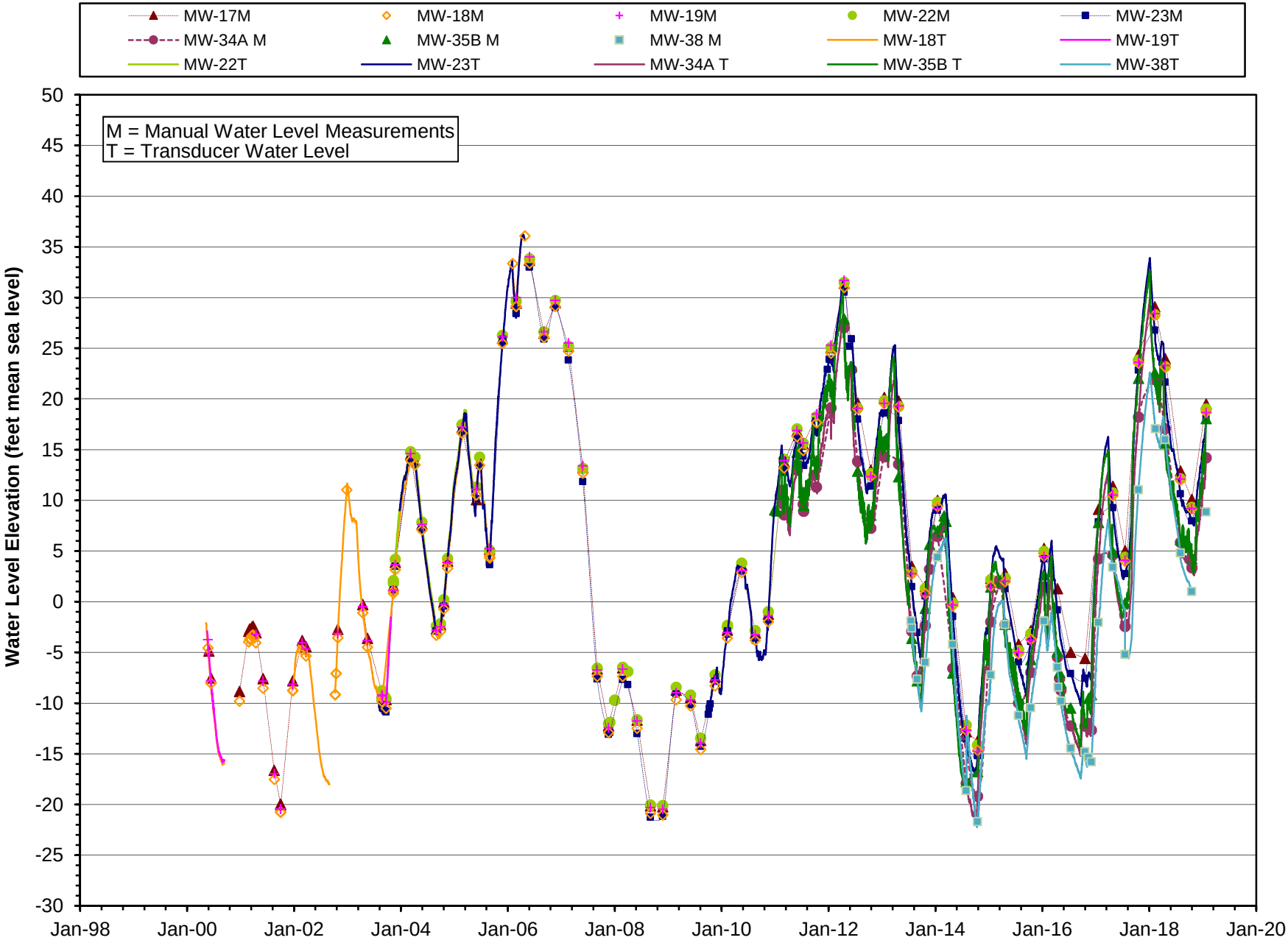


FIGURE 3. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT A MONITOR WELLS

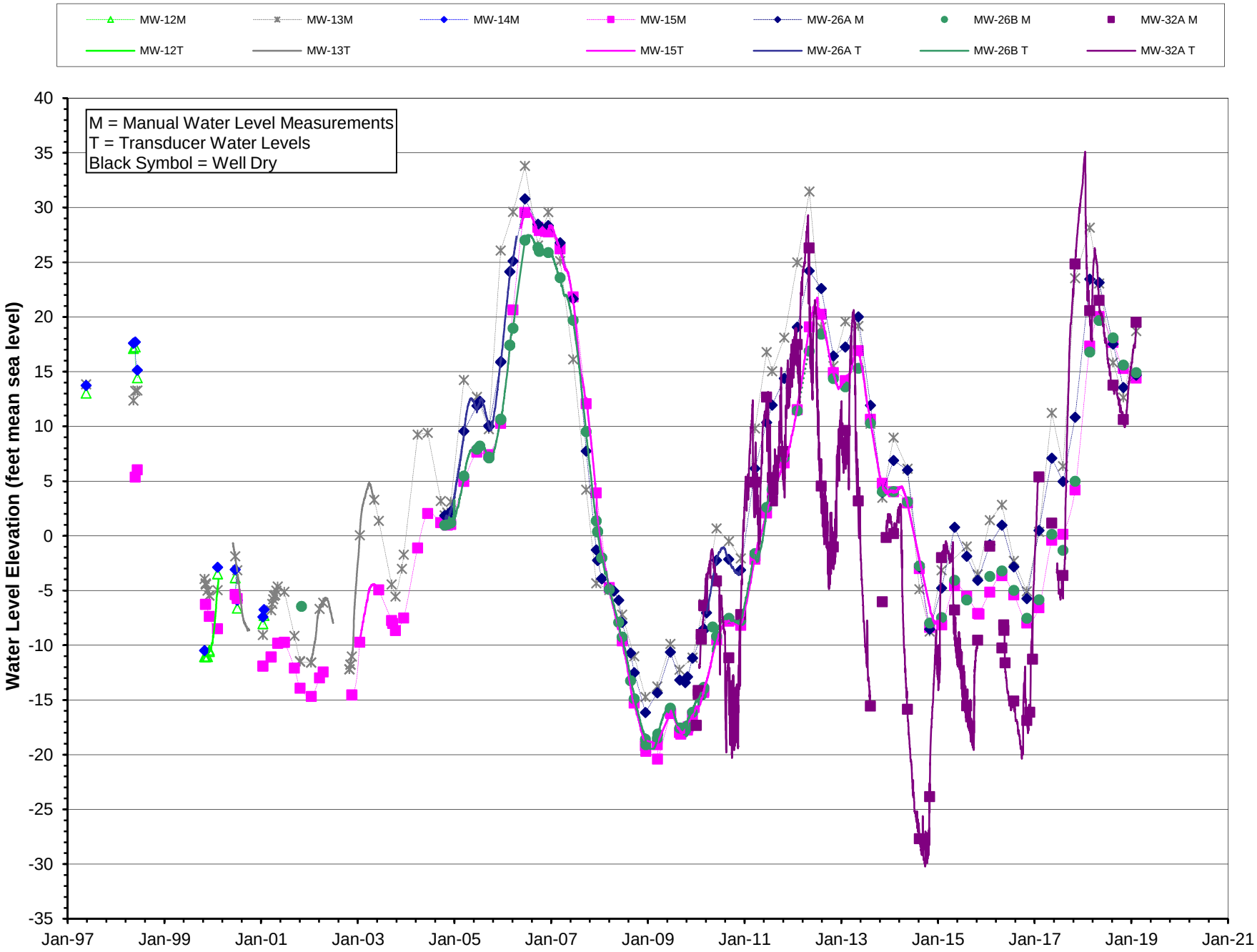


FIGURE 4. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT AB MONITOR WELLS

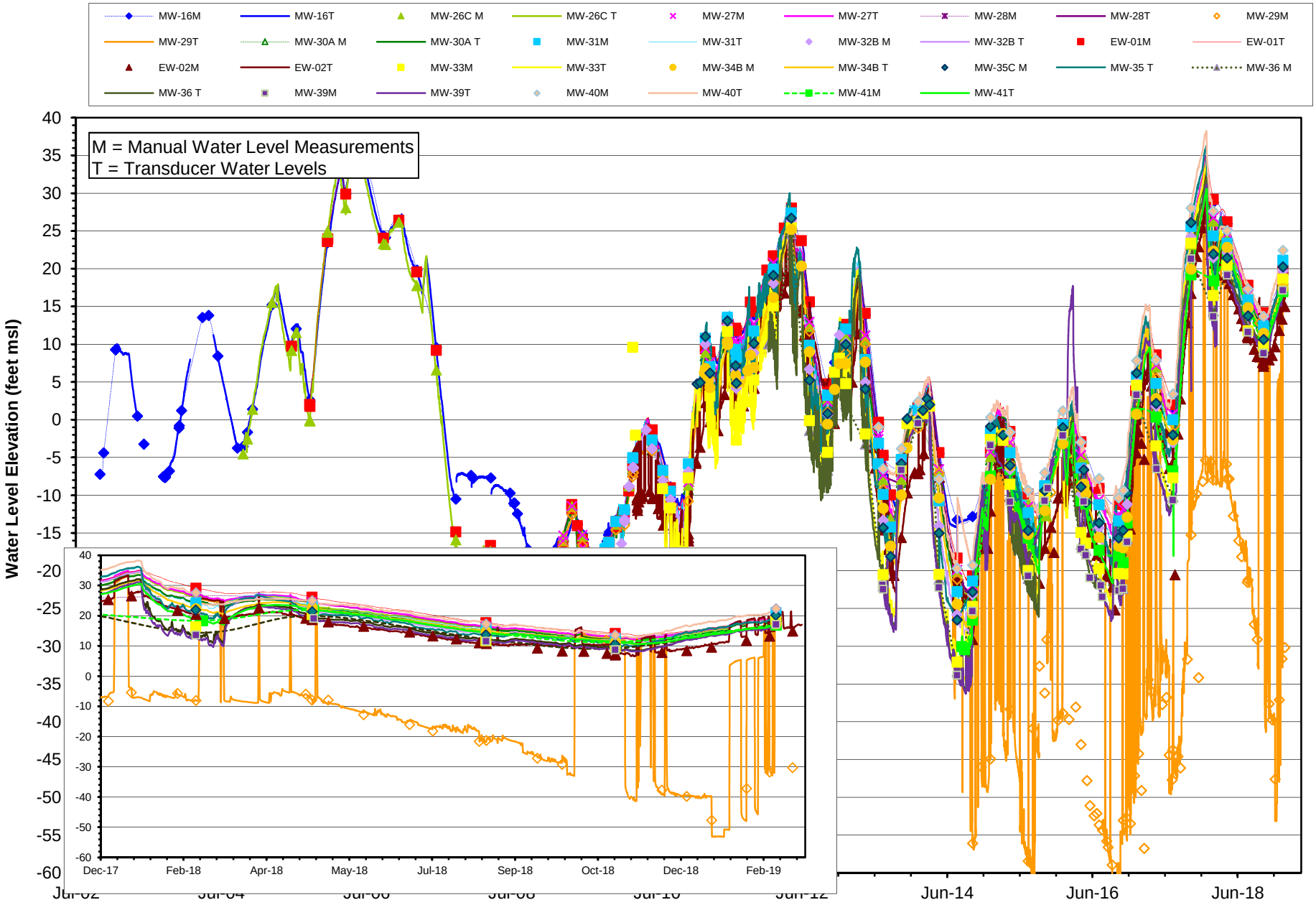


FIGURE 5. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT B MONITOR AND EXTRACTION WELLS

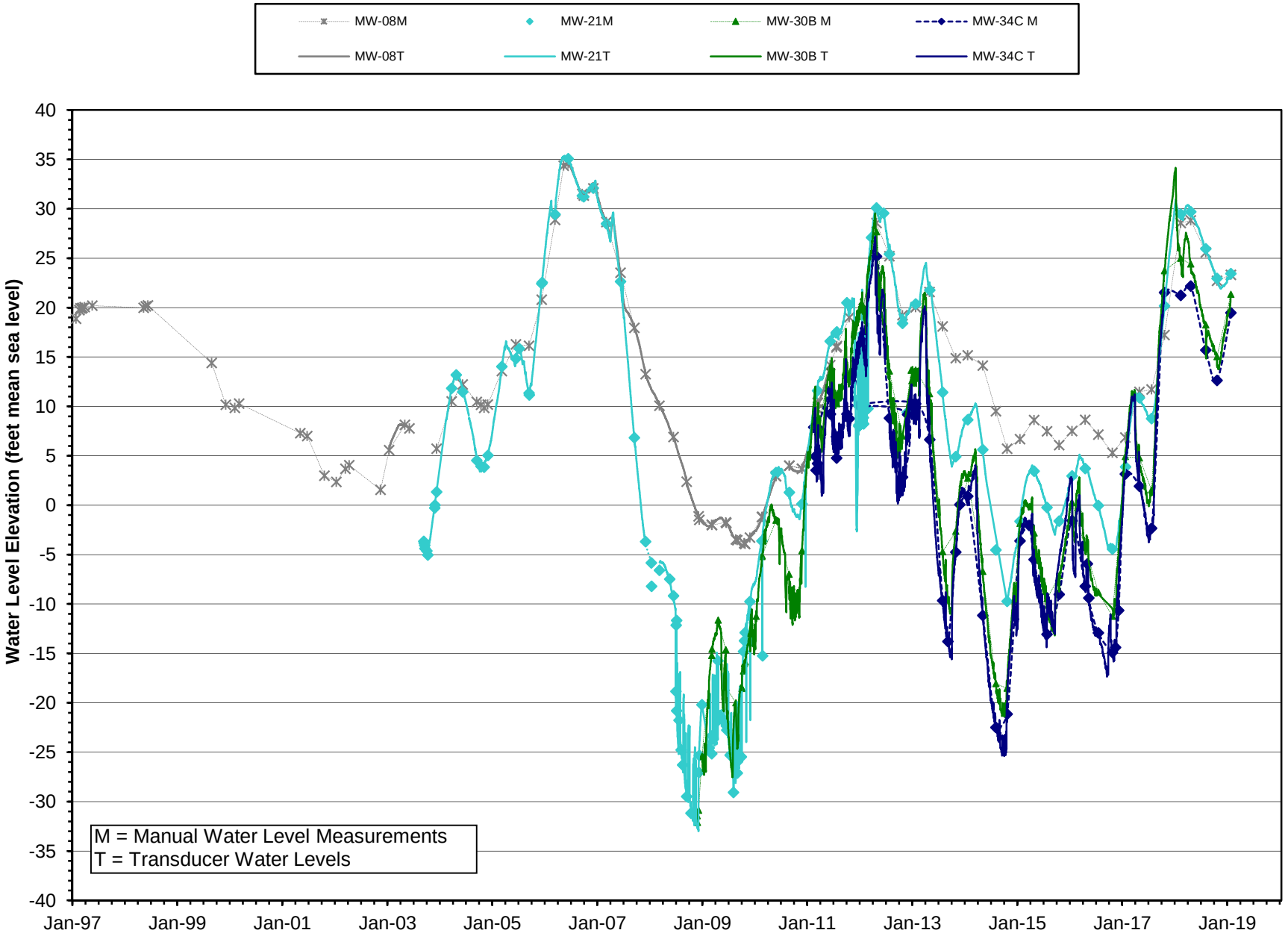


FIGURE 6. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT BC MONITOR AND EXTRACTION WELLS

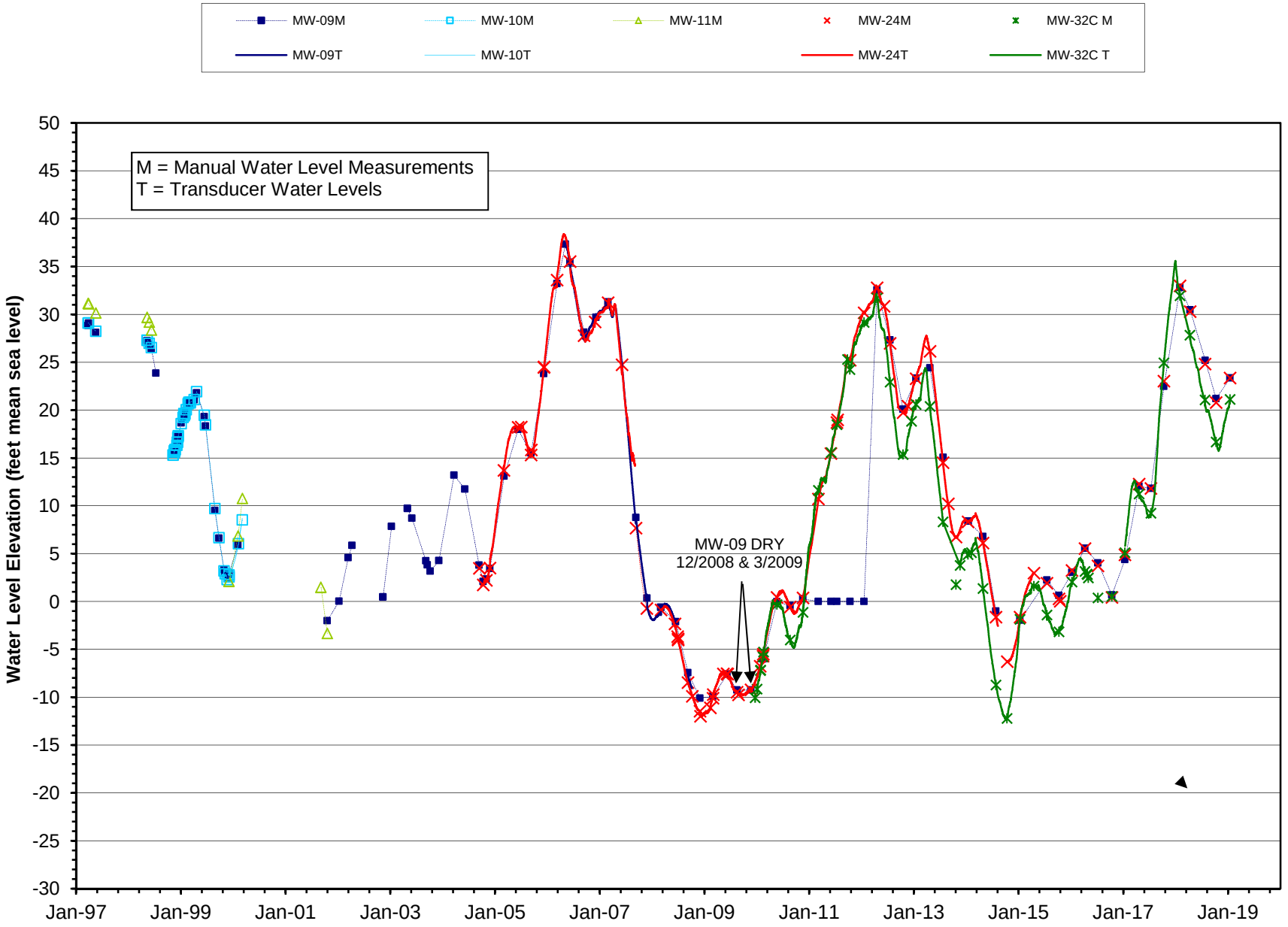


FIGURE 7. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT C MONITOR WELLS

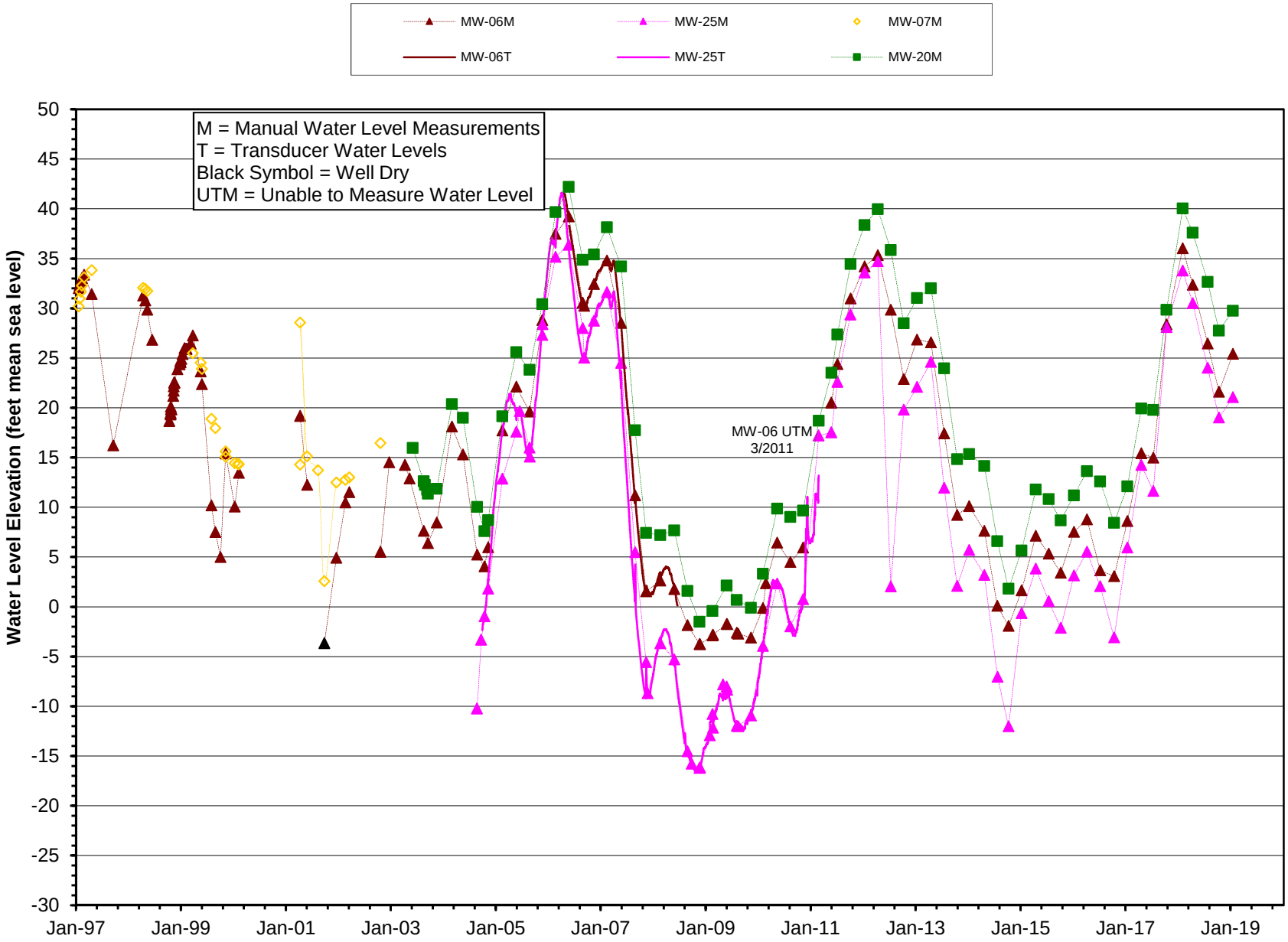


FIGURE 8. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT D MONITOR WELLS

NORTH
A

SOUTH
A'

MW-06 (PROJECTED)
MW-09 (PROJECTED)
RETAINING WALL P-7 (PROJECTED)
EB-01
MW-16
EB-03/MW-25
MW-24
MW-21
EW-01
MW-28 (PROJECTED)
MW-17
EB-04/MW-26 (PROJECTED)
MW-22 (PROJECTED)
MW-23 (PROJECTED)
MW-27 (PROJECTED)
EB-02 (PROJECTED)

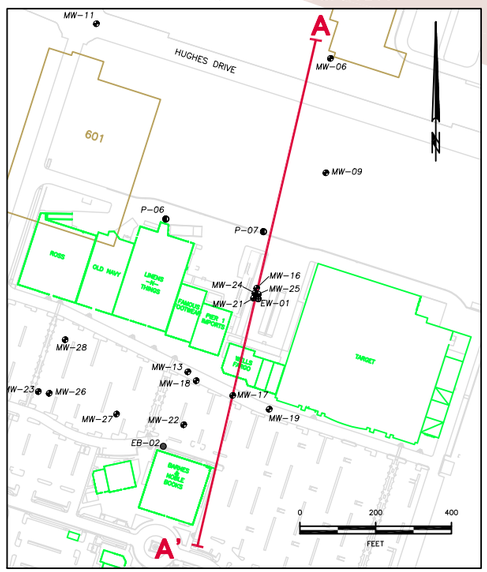
FORMER LAND SURFACE
CURRENT LAND SURFACE
PERCHED ZONE
UNSATURATED ZONE

MW-06 <0.50/<0.20
MW-09 <0.50/<0.20
P-07 1,400/1,700
MW-16 640/81
EW-01 29/17
MW-21 840/670
MW-24 <0.50/<0.20
MW-28 0.71/<0.20
MW-25 NS/NS
MW-17 NS/NS
TEMPORARY WELL SCREEN
MW-22 NS/NS
MW-26A NS/NS
MW-26B NS/NS
MW-26C <0.50/<0.20
MW-23 NS/NS
MW-27 <0.50/<0.20

UNIT B (TARGET ZONE)
UNIT C
UNIT D
UNIT A

ELEVATION, FEET MEAN SEA LEVEL
200 175 150 125 100 75 50 25 0 −25 −50 −75 −100 −125 −150 −175 −200 −225 −250 −275 −300 −325 −350 −375 −400 −425 −450 −475 −500 −525 −550 −575 −600 −625 −650 −675

CROSS SECTION LOCATION



EXPLANATION

- RELATIVELY COARSE ZONE, PREDOMINANTLY SANDS WITH LITTLE TO NO SILT OR CLAY
- MIXED ZONE, MIXTURES OF SANDS, CLAYS, AND SILTS
- RELATIVELY FINE ZONE, PREDOMINANTLY SILTS OR CLAYS WITH LITTLE TO NO SAND
- PREDOMINANTLY COARSE ZONE
- MIXED ZONE
- RELATIVELY FINE ZONE
- SCREENED INTERVAL OF MONITOR WELL
- 640 — 1,1−DICHLOROETHYLENE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2019
- 81 — 1,4−DIOXANE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2019
- NS — NOT SAMPLED IN FEBRUARY 2019
- < — LESS THAN; VALUE IS THE LIMIT OF DETECTION
- ? — QUERIED WHERE INFERRED
- APPROXIMATE REGIONAL GROUNDWATER TABLE DURING ON−SITE HISTORICAL HIGH, JUNE 2006
- APPROXIMATE REGIONAL GROUNDWATER TABLE DURING ON−SITE HISTORICAL LOW, DECEMBER 2008

LGRD
0 (OHM−M) 100 500

RESISTIVITY LOG (ohm−m) (LATERAL OR SHORT−NORMAL) OF WELL BOREHOLE. RIGHT EDGE OF THE LITHOLOGIC LOG COLUMN IS THE ZERO ohm−m LINE.

0 120 240
FEET

Apr 04, 2019 − 2:14pm ESS − T:\2019\500−599\532 Raytheon\Hydrogeology\X−Sections\310−1491.dwg

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Hydrogeology/Engineering

04/19	RPT NO. 532.31	310-1491	A

FIGURE 9.
SITE CONCEPTUAL GROUNDWATER MODEL HYDROGEOLOGIC CROSS−SECTION A−A'

NORTH B

SOUTH B'

MW-11 (DESTROYED) (PROJECTED)

FORMER LAND SURFACE

CURRENT LAND SURFACE

MW-08 (PROJECTED)

MW-29 (PROJECTED)

MW-15 (PROJECTED)

MW-28 (PROJECTED)

EW-02 (PROJECTED)

MW-23 (PROJECTED)

MW-30 A/B

MW-31

UNSATURATED ZONE

75/6.7

<0.50/NA

140/120

0.71/<0.20

9.8/<2.0

TEMPORARY WELL SCREEN

NS/NS

MW-30A

<0.50/<0.20

MW-30B

18/0.6

57/<2.0

UNIT A

UNIT A/B

UNIT B (TARGET ZONE)

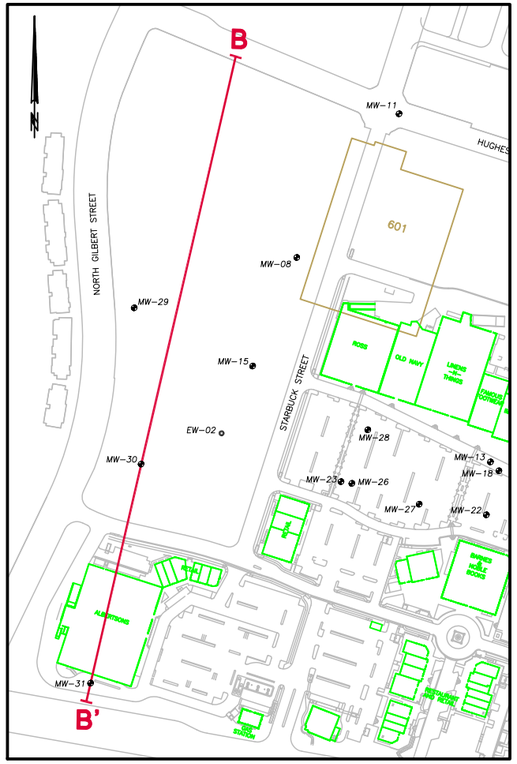
UNIT B/C

UNIT C

ELEVATION, FEET MEAN SEA LEVEL

175 150 125 100 75 50 25 0 −25 −50 −75 −100 −125 −150 −175 −200 −225 −250 −275 −300 −325 −350 −375 −400 −425 −450 −475 −500 −525 −550 −575 −600 −625 −650 −675 −700 −725 −750 −775 −800 −825 −850 −875 −900 −925 −950 −975 −1000

CROSS SECTION LOCATION



EXPLANATION

- RELATIVELY COARSE ZONE, PREDOMINANTLY SANDS WITH LITTLE TO NO SILT OR CLAY
- MIXED ZONE, MIXTURES OF SANDS, CLAYS, AND SILTS
- RELATIVELY FINE ZONE, PREDOMINANTLY SILTS OR CLAYS WITH LITTLE TO NO SAND
- PREDOMINANTLY COARSE ZONE
- MIXED ZONE
- RELATIVELY FINE ZONE
- SCREENED INTERVAL OF MONITOR WELL
- 140 — 1,1−DICHLOROETHYLENE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2019
- 120 — 1,4−DIOXANE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2019
- ? — QUERIED WHERE INFERRED
- NA — NOT ANALYZED FOR (SPECIFIC ANALYTE) IN FEBRUARY 2019
- NS — NOT SAMPLED IN FEBRUARY 2019
- < — LESS THAN; VALUE IS THE LIMIT OF DETECTION
- APPROXIMATE REGIONAL GROUNDWATER TABLE DURING ON−SITE HISTORICAL HIGH, JUNE 2006
- APPROXIMATE REGIONAL GROUNDWATER TABLE DURING ON−SITE HISTORICAL LOW, DECEMBER 2008

NOTE:

WATER QUALITY RESULTS AND DIRECTION OF GROUNDWATER FLOW WITHIN TARGET ZONE INDICATE THAT COMPOUNDS DETECTED APPEAR RELATED TO FORMER BUILDING 609

LGRD
0 (OHM−M) 100 500

RESISTIVITY LOG (ohm−m) (LATERAL OR SHORT−NORMAL) OF WELL BOREHOLE. RIGHT EDGE OF THE LITHOLOGIC LOG COLUMN IS THE ZERO ohm−m LINE.

0 120 240
FEET

Apr 04, 2019 − 2:15pm ESS − T:\2019\500−599\532 Raytheon\Hydrogeology\X−Sections\310−1492.dwg

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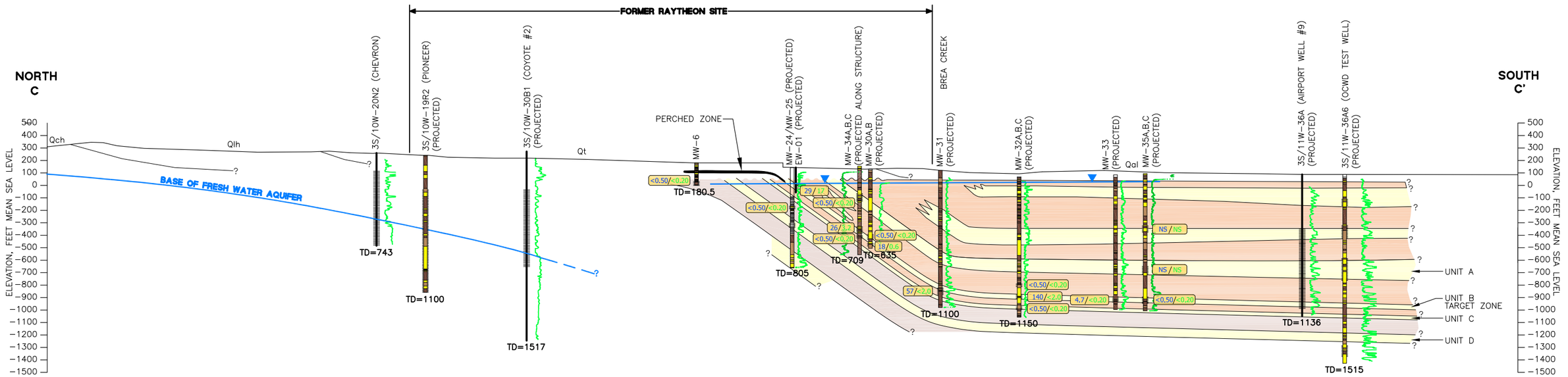
Hydrogeology/Engineering

04/19	RPT NO. 532.31	310-1492	A

FIGURE 10.
SITE CONCEPTUAL GROUNDWATER MODEL HYDROGEOLOGIC CROSS−SECTION B−B'



EXPLANATION

- RELATIVELY COARSE ZONE, PREDOMINANTLY SANDS WITH LITTLE TO NO SILT OR CLAY
- MIXED ZONE, MIXTURES OF SANDS, CLAYS, AND SILTS
- RELATIVELY FINE ZONE, PREDOMINANTLY SILTS OR CLAYS WITH LITTLE TO NO SAND
- PREDOMINANTLY COARSE ZONE
- MIXED ZONE
- RELATIVELY FINE ZONE
- SCREENED INTERVAL OF MONITOR WELL

LGRD
0 (OHM-M) 100 500

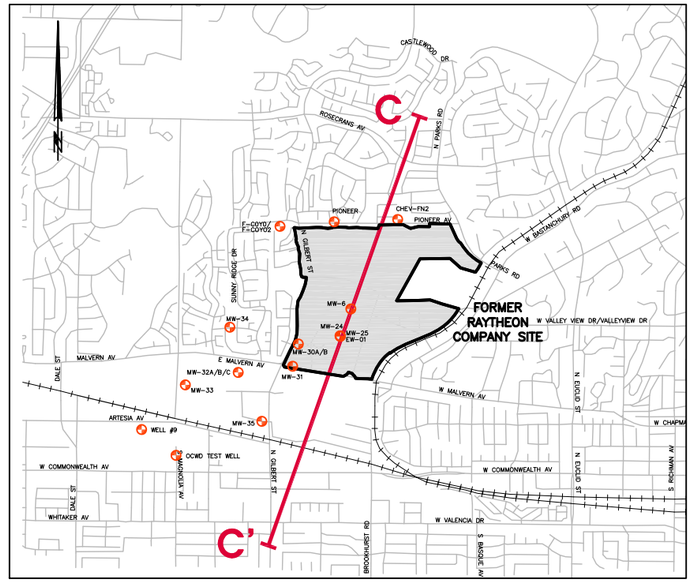
RESISTIVITY LOG (ohm-m) (LATERAL OR SHORT-NORMAL) OF WELL BOREHOLE. RIGHT EDGE OF THE LITHOLOGIC LOG COLUMN IS THE ZERO ohm-m LINE.

1,600 FEET 800 FEET 0 VERTICAL SCALE
800 400 FEET HORIZONTAL SCALE

Qal	ALLUVIUM, HOLOCENE: UNCONSOLIDATED AND POORLY CONSOLIDATED GRAVEL, SAND AND SILT.
Qt/ Qoa	TERRACE DEPOSITS/OLDER ALLUVIUM, UPPER PLEISTOCENE TO HOLOCENE: POORLY CONSOLIDATED GRAVEL, SAND AND SILT, COMMONLY REDDISH-BROWN; LOCALLY RED-BROWN SILT.
Qlh	LA HABRA FORMATION, UPPER PLEISTOCENE: OLIVE-GRAY TO RED-BROWN SILTSTONE; PALE YELLOW-BROWN TO RED-BROWN THICK-BEDDED FRIABLE SANDSTONE; PALE-YELLOW-GRAY POORLY BEDDED PEBBLY SANDSTONE; AND PALE-YELLOW-BROWN UNSORTED PEBBLE-COBBLE CONGLOMERATE; BASAL PART FILLS IRREGULAR CHANNELS CUT INTO UNDERLYING STRATA.
Qch	COYOTE HILLS FORMATION, UPPER PLEISTOCENE: MODERATE YELLOW-BROWN TO MODERATE BROWN THICK-BEDDED TO MASSIVE FRIABLE PEBBLY SANDSTONE; OLIVE-GRAY TO GRAY-BROWN MASSIVE SILTSTONE; AND YELLOW-BROWN MASSIVE SANDSTONE AND PEBBLE CONGLOMERATE.
29	1,1-DICHLOROETHYLENE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2019 UNLESS OTHERWISE INDICATED
17	1,4-DIOXANE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2019 UNLESS OTHERWISE INDICATED
NS	NOT SAMPLED IN FEBRUARY 2019
	NOTE: SURFACE DISTRIBUTION OF STRATIGRAPHIC UNITS AND DESCRIPTIONS OF STRATIGRAPHIC UNITS EXCERPTED FROM YERKES, 1972.
▼	APPROXIMATE UNIT B GROUNDWATER LEVEL, FEBRUARY 2019
?	QUERIED WHERE INFERRED

NOTE: NOT ALL ON-SITE WELLS ARE DEPICTED ON CROSS SECTION

CROSS SECTION LOCATION



Apr 04, 2019 - 2:16pm ESS - T:\2019\500-599\532 Raytheon\Hydrogeology\X-Sections\310-1493.dwg

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

04/19	RPT NO. 532.31	310-1493	A

FIGURE 11.
REGIONAL CONCEPTUAL GROUNDWATER MODEL HYDROGEOLOGIC CROSS-SECTION C-C'

EXPLANATION

- MW-16 — GROUNDWATER MONITOR WELL
- P-09 — PERCHED ZONE PIEZOMETER
- MW-25 — GROUNDWATER PIEZOMETER
- EW-01 — GROUNDWATER EXTRACTION WELL
- SITE BOUNDARY
- * — PUMPING WATER LEVEL ELEVATION
- PGETS — PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM
- FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000
- CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
- DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT

WELL IDENTIFIER

MW-33	B	May 2018	20.45
		Aug 2018	11.78
		Nov 2018	9.74
		Feb 2019	18.64

HYDROGEOLOGIC ZONE

SAMPLE DATE

WATER LEVEL ELEVATION, FEET MEAN SEA LEVEL

HYDROGEOLOGIC ZONES:

PERCHED	AB	C
OTHER	B	D
A	BC	

MW-41	B	May 2018	21.82
		Aug 2018	14.51
		Nov 2018	11.30
		Feb 2019	16.95

MW-34A	A	May 2018	17.08
		Aug 2018	5.87
		Nov 2018	3.34
		Feb 2019	14.20
MW-34B	B	May 2018	22.85
		Aug 2018	14.86
		Nov 2018	11.44
		Feb 2019	17.40
MW-34C	BC	May 2018	22.18
		Aug 2018	15.70
		Nov 2018	12.63
		Feb 2019	19.48

MW-38	A	May 2018	15.98
		Aug 2018	4.82
		Nov 2018	1.00
		Feb 2019	8.85

MW-37	D	May 2018	26.18
		Aug 2018	18.53
		Nov 2018	13.28
		Feb 2019	18.56

MW-39	B	May 2018	19.15
		Aug 2018	11.60
		Nov 2018	8.80
		Feb 2019	17.15

MW-36	B	May 2018	20.00
		Aug 2018	12.33
		Nov 2018	9.28
		Feb 2019	17.31

MW-32A	AB	May 2018	21.53
		Aug 2018	13.77
		Nov 2018	10.63
		Feb 2019	19.52
MW-32B	B	May 2018	22.14
		Aug 2018	14.54
		Nov 2018	11.38
		Feb 2019	19.74
MW-32C	C	May 2018	27.83
		Aug 2018	21.07
		Nov 2018	16.68
		Feb 2019	21.11

MW-33	B	May 2018	20.45
		Aug 2018	11.78
		Nov 2018	9.74
		Feb 2019	18.64

MW-09	C	May 2018	30.48
		Aug 2018	25.20
		Nov 2018	21.20
		Feb 2019	23.35

MW-08	BC	May 2018	28.83
		Aug 2018	25.61
		Nov 2018	22.73
		Feb 2019	23.32

MW-15	AB	May 2018	20.04
		Aug 2018	17.68
		Nov 2018	15.30
		Feb 2019	14.42

EW-02	B	May 2018	18.81*
		Aug 2018	10.85*
		Nov 2018	7.42*
		Feb 2019	19.78*

MW-28	B	May 2018	24.36
		Aug 2018	16.07
		Nov 2018	12.46
		Feb 2019	18.67

MW-23	A	May 2018	21.66
		Aug 2018	10.65
		Nov 2018	7.97
		Feb 2019	18.08

MW-30A	B	May 2018	22.88
		Aug 2018	15.08
		Nov 2018	11.74
		Feb 2019	18.66
MW-30B	BC	May 2018	24.42
		Aug 2018	18.26
		Nov 2018	15.03
		Feb 2019	21.35

MW-26A	AB	May 2018	23.16
		Aug 2018	17.53
		Nov 2018	13.56
		Feb 2019	14.69
MW-26B	AB	May 2018	19.68
		Aug 2018	18.10
		Nov 2018	15.61
		Feb 2019	14.91
MW-26C	B	May 2018	24.26
		Aug 2018	16.16
		Nov 2018	12.62
		Feb 2019	19.37

MW-31	B	May 2018	23.37
		Aug 2018	15.88
		Nov 2018	12.46
		Feb 2019	21.14

MW-27	B	May 2018	24.67
		Aug 2018	16.55
		Nov 2018	12.90
		Feb 2019	19.77

MW-13	AB	May 2018	23.06
		Aug 2018	15.83
		Nov 2018	12.65
		Feb 2019	18.73

MW-35A	OTHER	May 2018	19.43
		Aug 2018	11.17
		Nov 2018	10.16
		Feb 2019	25.01
MW-35B	A	May 2018	15.63
		Aug 2018	6.11
		Nov 2018	4.24
		Feb 2019	18.05
MW-35C	B	May 2018	21.42
		Aug 2018	13.77
		Nov 2018	10.64
		Feb 2019	20.24

MW-16	B	May 2018	25.96
		Aug 2018	17.64
		Nov 2018	13.89
		Feb 2019	19.41

MW-24	C	May 2018	30.30
		Aug 2018	24.81
		Nov 2018	20.79
		Feb 2019	23.37

MW-21	BC	May 2018	29.70
		Aug 2018	25.97
		Nov 2018	22.96
		Feb 2019	23.45

EW-01	B	May 2018	26.20
		Aug 2018	17.81
		Nov 2018	14.19
		Feb 2019	19.85

MW-20	D	May 2018	37.60
		Aug 2018	32.64
		Nov 2018	27.76
		Feb 2019	29.74

MW-06	D	May 2018	32.35
		Aug 2018	26.45
		Nov 2018	21.61
		Feb 2019	25.41

P-09	PERCHED	May 2018	63.16
		Aug 2018	63.15
		Nov 2018	63.00
		Feb 2019	62.91

MW-29	B	May 2018	-7.81*
		Aug 2018	-21.21*
		Nov 2018	11.93
		Feb 2019	17.91

SEE DETAIL BELOW

MW-19	A	May 2018	23.30
		Aug 2018	12.11
		Nov 2018	9.21
		Feb 2019	18.67

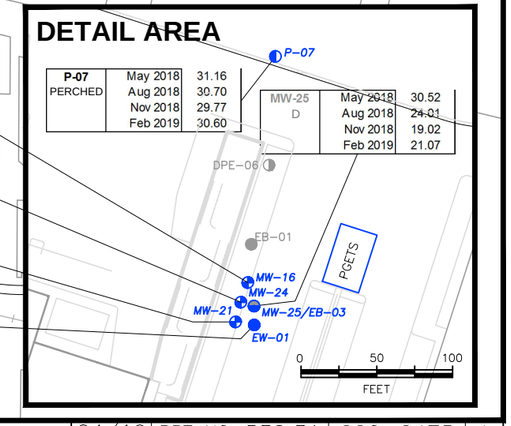
MW-22	A	May 2018	23.20
		Aug 2018	12.13
		Nov 2018	9.32
		Feb 2019	19.00

MW-40	B	May 2018	25.07
		Aug 2018	17.32
		Nov 2018	13.69
		Feb 2019	22.45

MW-18	A	May 2018	23.17
		Aug 2018	12.01
		Nov 2018	9.16
		Feb 2019	18.70

MW-17	A	May 2018	23.98
		Aug 2018	12.90
		Nov 2018	10.09
		Feb 2019	19.50

DETAIL AREA



P-07	PERCHED	May 2018	31.16
		Aug 2018	30.70
		Nov 2018	29.77
		Feb 2019	30.60

MW-25	D	May 2018	30.52
		Aug 2018	24.01
		Nov 2018	19.02
		Feb 2019	21.07

CITY OF FULLERTON WELL NO. 9

OCWD AIRPORT TEST WELL 3S/11W-36A6

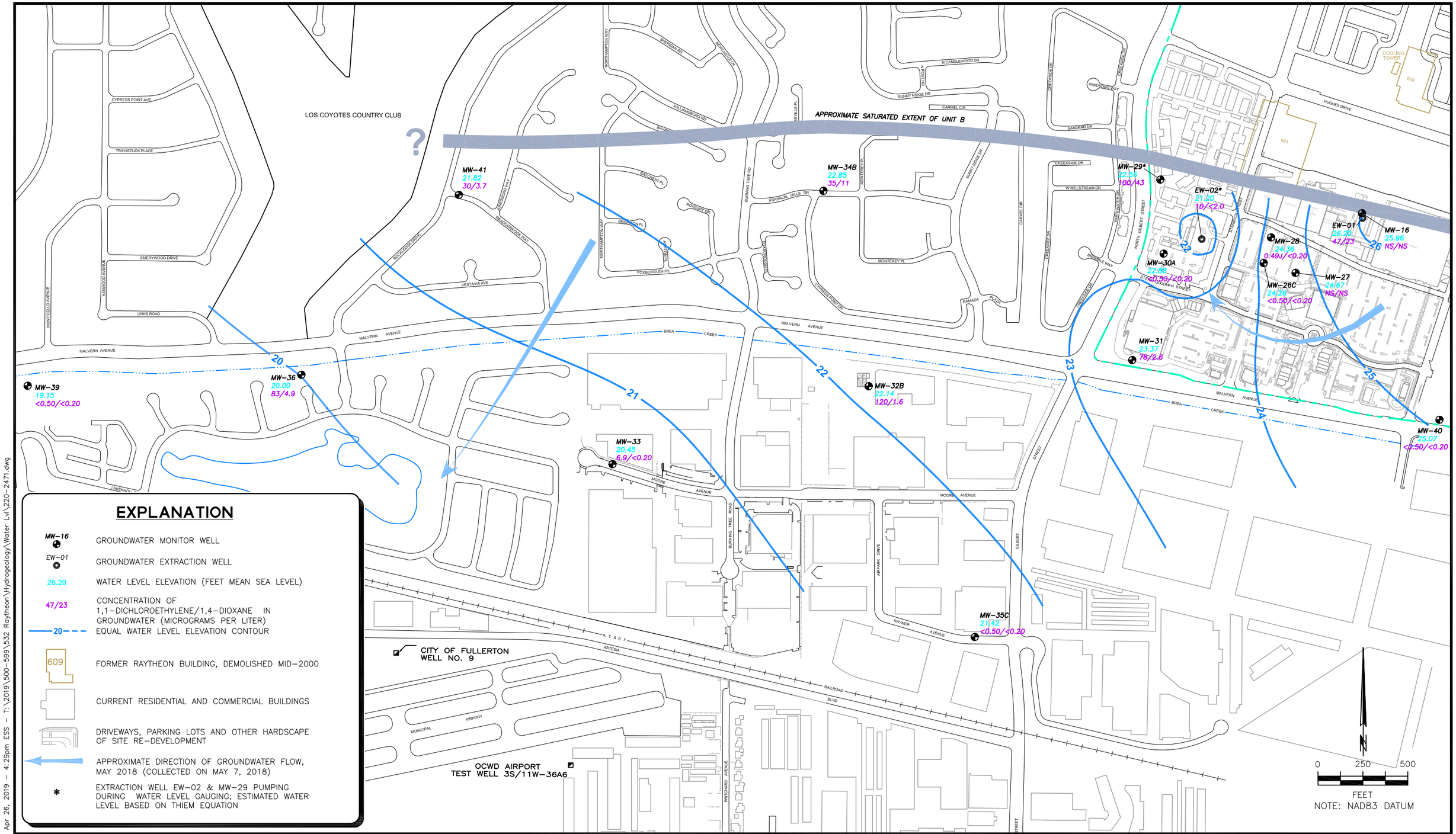
0 250 500 FEET

Apr 04, 2019 - 2:21pm ESS - T:\2019\500-599\532 Raytheon\Hydrogeology\Water Lvl\220-2475.dwg

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

04/19 | RPT NO. 532.31 | 220-2475 | A

FIGURE 12.
WATER LEVEL ELEVATIONS
MAY 2018 THROUGH FEBRUARY 2019



EXPLANATION

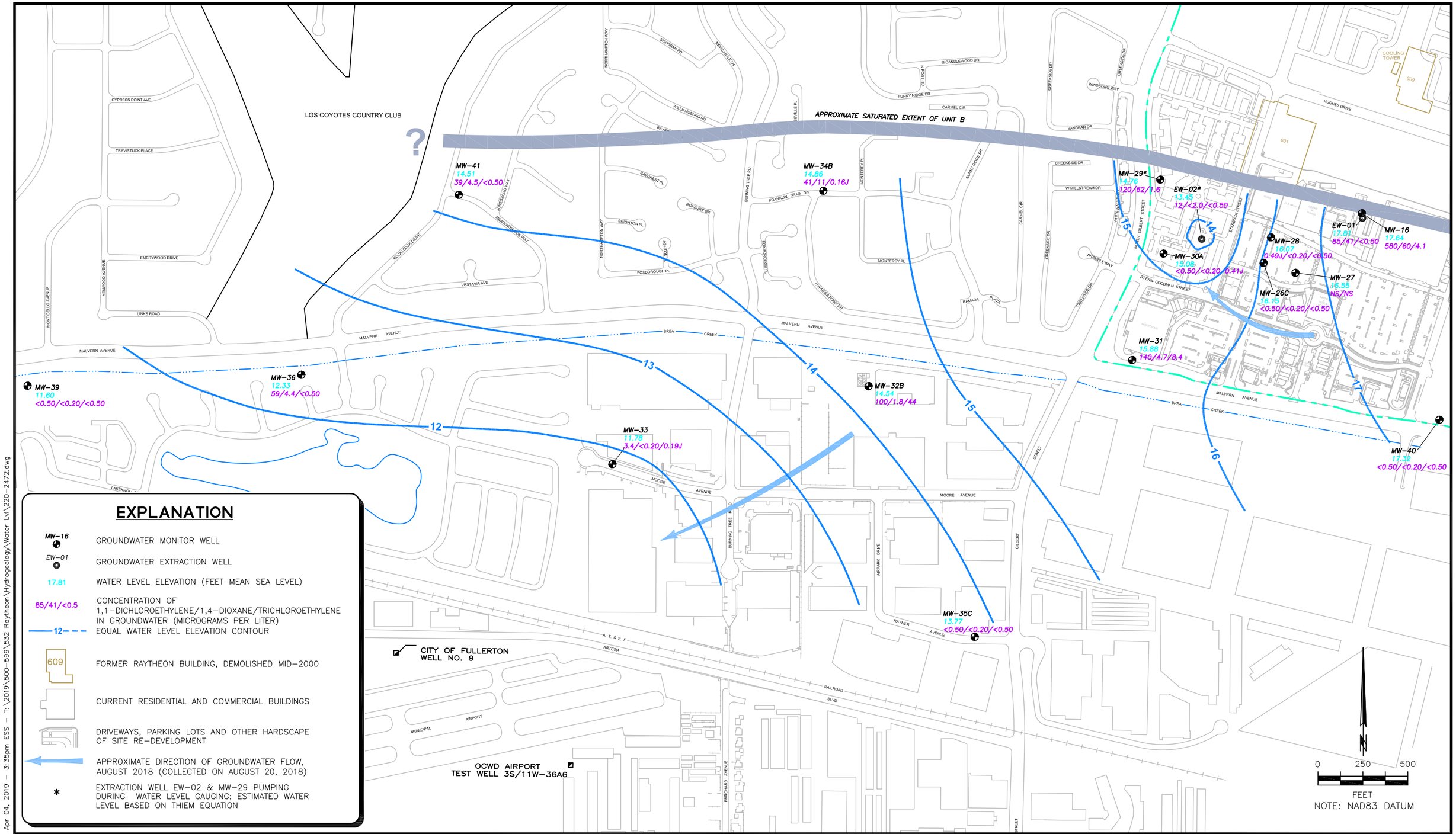
MW–16	GROUNDWATER MONITOR WELL
EW–01	GROUNDWATER EXTRACTION WELL
26.20	WATER LEVEL ELEVATION (FEET MEAN SEA LEVEL)
47/23	CONCENTRATION OF 1,1–DICHLOROETHYLENE/1,4–DIOXANE IN GROUNDWATER (MICROGRAMS PER LITER)
20	EQUAL WATER LEVEL ELEVATION CONTOUR
609	FORMER RAYTHEON BUILDING, DEMOLISHED MID–2000
	CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
	DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE–DEVELOPMENT
	APPROXIMATE DIRECTION OF GROUNDWATER FLOW, MAY 2018 (COLLECTED ON MAY 7, 2018)
*	EXTRACTION WELL EW–02 & MW–29 PUMPING DURING WATER LEVEL GAUGING; ESTIMATED WATER LEVEL BASED ON THIEM EQUATION

Apr 26, 2019 – 4:29pm ESS – T:\2019\500–599\532 Raytheon\Hydrogeology\Water Lvl\220–2471.dwg

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

04/19	RPT NO. 532.31	220–2471	A

FIGURE 13A.
WATER LEVEL AND WATER QUALITY UNIT B
MAY 2018



EXPLANATION

MW–16	GROUNDWATER MONITOR WELL
EW–01	GROUNDWATER EXTRACTION WELL
17.81	WATER LEVEL ELEVATION (FEET MEAN SEA LEVEL)
85/41/<0.5	CONCENTRATION OF 1,1–DICHLOROETHYLENE/1,4–DIOXANE/TRICHLOROETHYLENE IN GROUNDWATER (MICROGRAMS PER LITER)
12	EQUAL WATER LEVEL ELEVATION CONTOUR
609	FORMER RAYTHEON BUILDING, DEMOLISHED MID–2000
	CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
	DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE–DEVELOPMENT
	APPROXIMATE DIRECTION OF GROUNDWATER FLOW, AUGUST 2018 (COLLECTED ON AUGUST 20, 2018)
*	EXTRACTION WELL EW–02 & MW–29 PUMPING DURING WATER LEVEL GAUGING; ESTIMATED WATER LEVEL BASED ON THIEM EQUATION

Apr 04, 2019 – 3:35pm ESS – T:\2019\500–599\532 Raytheon\Hydrogeology\Water Lvl\220–2472.dwg

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

04/19	RPT NO. 532.31	220–2472	A

FIGURE 13B.
WATER LEVEL AND WATER QUALITY UNIT B
AUGUST 2018

LOS COYOTES COUNTRY CLUB

APPROXIMATE SATURATED EXTENT OF UNIT B

MW–41
11.30
21/7.7/<0.50

MW–34B
11.44
35/17/0.19J

MW–29
11.93
120/140/1.8

EW–02*
10.11
12/7.5/<0.50

EW–01
14.19
81/55/0.39J

MW–16
13.89
NS

MW–30A
11.74
0.20J/<0.20/0.54

MW–26C
12.62
<0.50/<0.20/<0.50

MW–28
12.46
<0.50/<0.20/<0.50

MW–27
12.90
NS/NS

MW–31
12.46
240/8.8/11

MW–39
8.80
<0.50/<0.20/<0.50

MW–36
9.28
52/7.3/<0.50

MW–32B
11.38
140/6.9/45

MW–33
9.74
3.2/<0.20/0.19J

MW–35C
10.64
<0.50/<0.20/<0.50

MW–40
13.69
<0.50/<0.20/<0.50

CITY OF FULLERTON
WELL NO. 9

OCWD AIRPORT
TEST WELL 3S/11W–36A6

EXPLANATION

- MW–16 — GROUNDWATER MONITOR WELL
- EW–01 — GROUNDWATER EXTRACTION WELL
- 14.19 — WATER LEVEL ELEVATION (FEET MEAN SEA LEVEL)
- 81/55/0.39J — CONCENTRATION OF 1,1–DICHLOROETHYLENE/1,4–DIOXANE/TRICHLOROETHYLENE IN GROUNDWATER (MICROGRAMS PER LITER)
- 14 – – – EQUAL WATER LEVEL ELEVATION CONTOUR
- 609 — FORMER RAYTHEON BUILDING, DEMOLISHED MID–2000
- CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
- DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE–DEVELOPMENT
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW, NOVEMBER 2018 (COLLECTED ON NOVEMBER 6, 2018)
- * EXTRACTION WELL EW–02 PUMPING DURING WATER LEVEL GAUGING; ESTIMATED WATER LEVEL BASED ON THIEM EQUATION

0 250 500
FEET
NOTE: NAD83 DATUM

Apr 04, 2019 – 3:36pm ESS – T:\2019\500–599\532 Raytheon\Hydrogeology\Water Lvl\220–2473.dwg

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

04/19 | RPT NO. 532.31 | 220–2473 | A

FIGURE 13C.
WATER LEVEL AND WATER QUALITY UNIT B
NOVEMBER 2018

APPROXIMATE SATURATED EXTENT OF UNIT B

LOS COYOTES COUNTRY CLUB

?

MW-41
16.95
14/2.3/<0.50

MW-34B
17.40
26/3.2/<0.50

MW-29
17.94
140/120/1.6

MW-30A
18.66
<0.50/<0.20/<0.50

EW-02*
17.03
9.8/<2.0/<0.50

EW-01
19.85
29/17/<0.50

MW-16
19.41
640/81/5.1

MW-28
18.67
<0.71/<0.20/<0.50

MW-27
19.77
<0.50/<0.20/<0.50

MW-26C
19.37
<0.50/<0.20/<0.50

MW-31
21.14
57/<2.0/6

MW-39
17.15
<0.50/<0.20/<0.50

MW-36
17.31
85/3/<0.50

MW-32B
19.74
140/<2.0/33

MW-33
18.64
4.7/<0.20/0.51

MW-40
22.45
NS/NS/NS

MW-35C
20.24
<0.50/<0.20/<0.50

CITY OF FULLERTON
WELL NO. 9

OCWD AIRPORT
TEST WELL 3S/11W-36A6

EXPLANATION

- MW-16 — GROUNDWATER MONITOR WELL
- EW-01 — GROUNDWATER EXTRACTION WELL
- 19.85 — WATER LEVEL ELEVATION (FEET MEAN SEA LEVEL)
- 29/17/<0.50 — CONCENTRATION OF 1,1-DICHLOROETHYLENE/1,4-DIOXANE/TRICHLOROETHYLENE IN GROUNDWATER (MICROGRAMS PER LITER)
- 22 — EQUAL WATER LEVEL ELEVATION CONTOUR
- 609 — FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000
- CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
- DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW, FEBRUARY 2019 (COLLECTED ON FEBRUARY 11, 2019)
- * — EXTRACTION WELL EW-02 PUMPING DURING WATER LEVEL GAUGING; ESTIMATED WATER LEVEL BASED ON THIEM EQUATION

0 250 500
FEET
NOTE: NAD83 DATUM

Apr 04, 2019 - 1:57pm ESS - T:\2019\500-599\532 Raytheon\Hydrogeology\Water Lvl\220-2474.dwg

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Hydrogeology/Engineering

04/19 | RPT NO. 532.31 | 220-2474 | A

FIGURE 13D.
WATER LEVEL AND WATER QUALITY UNIT B
FEBRUARY 2019

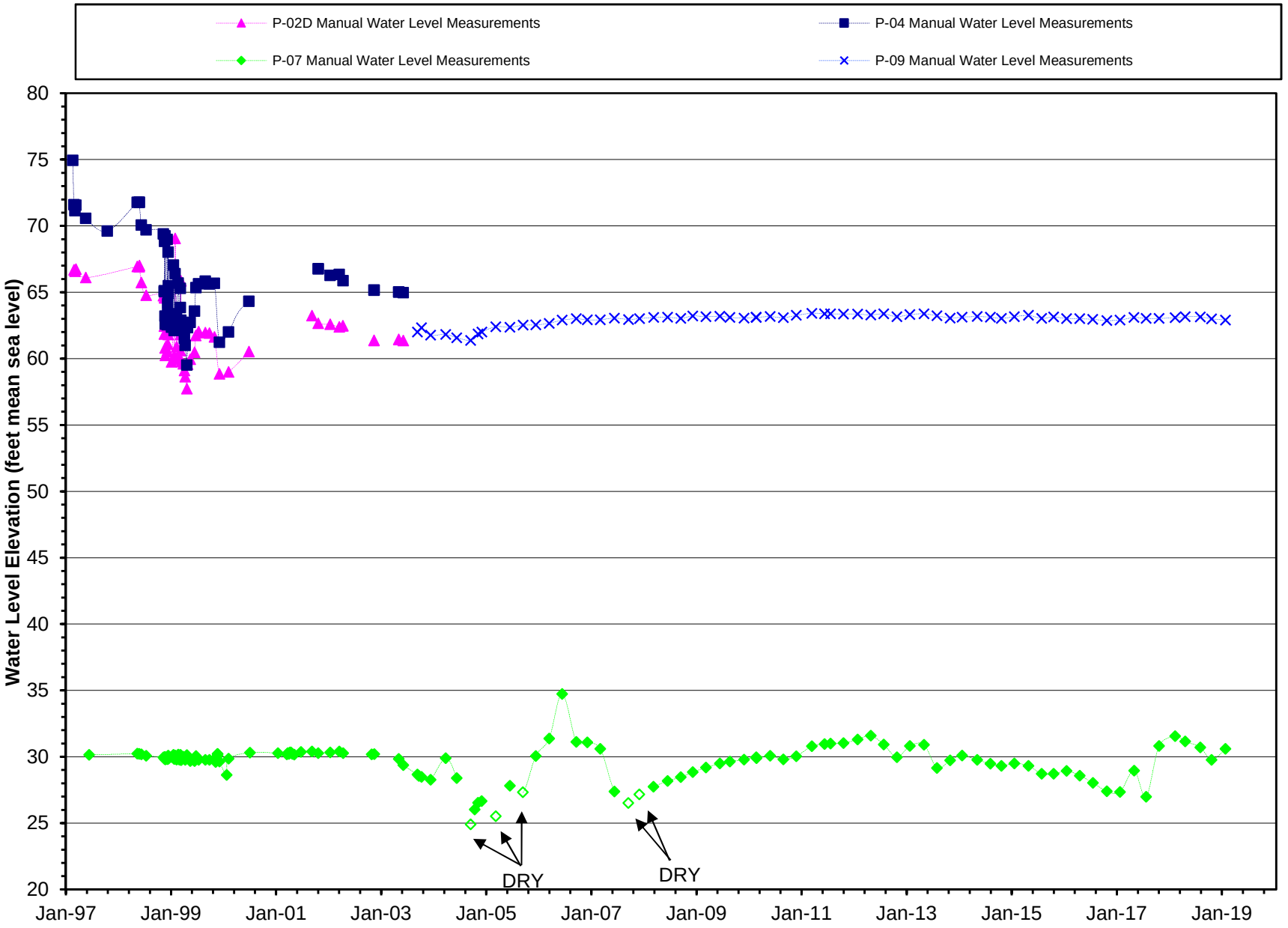


FIGURE 14. PERCHED ZONE WATER LEVELS, CENTRAL PORTION OF SITE

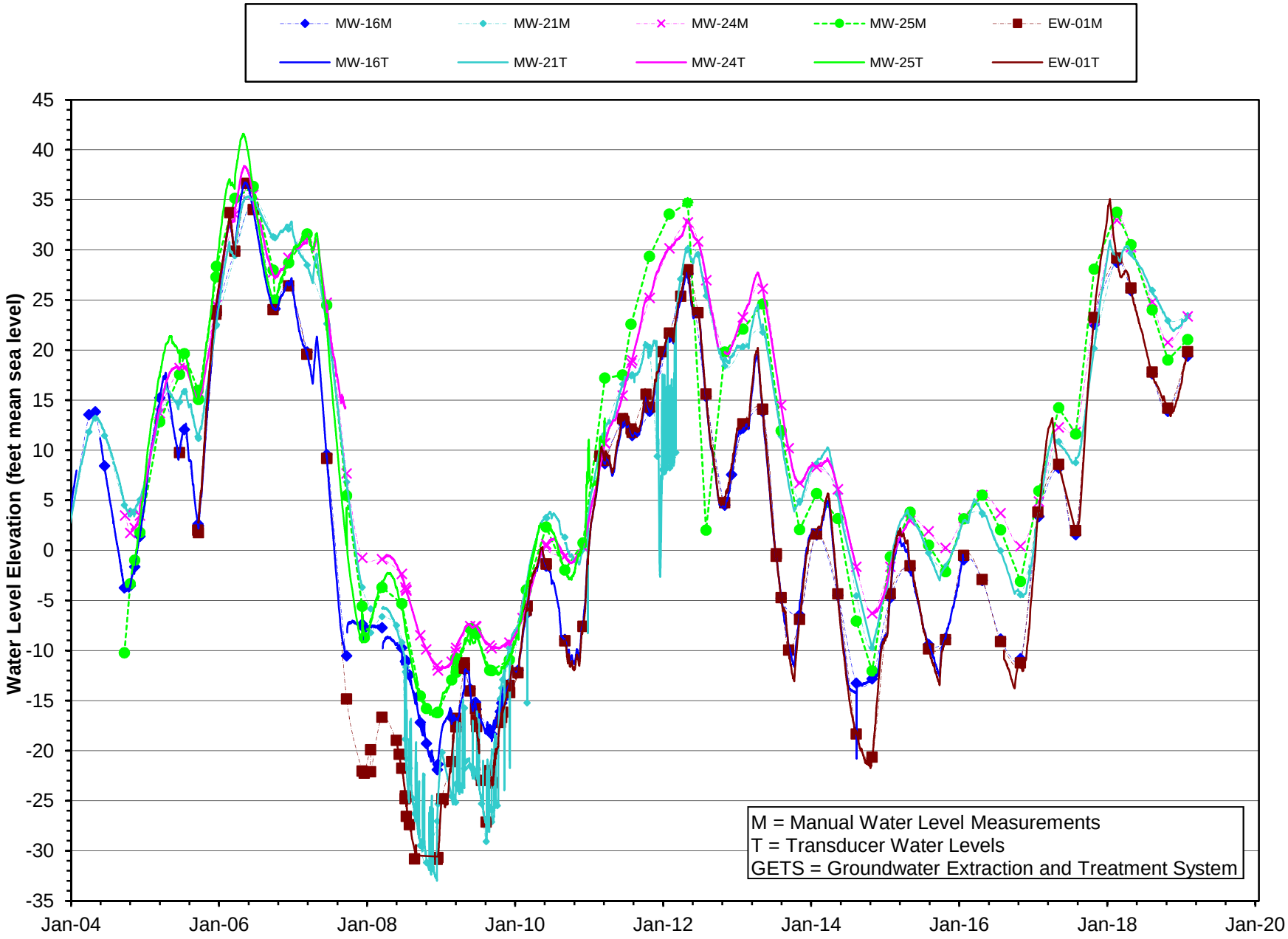


FIGURE 15. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, MONITOR AND EXTRACTION WELL CLUSTER EW-01/MW-16/21/24/25

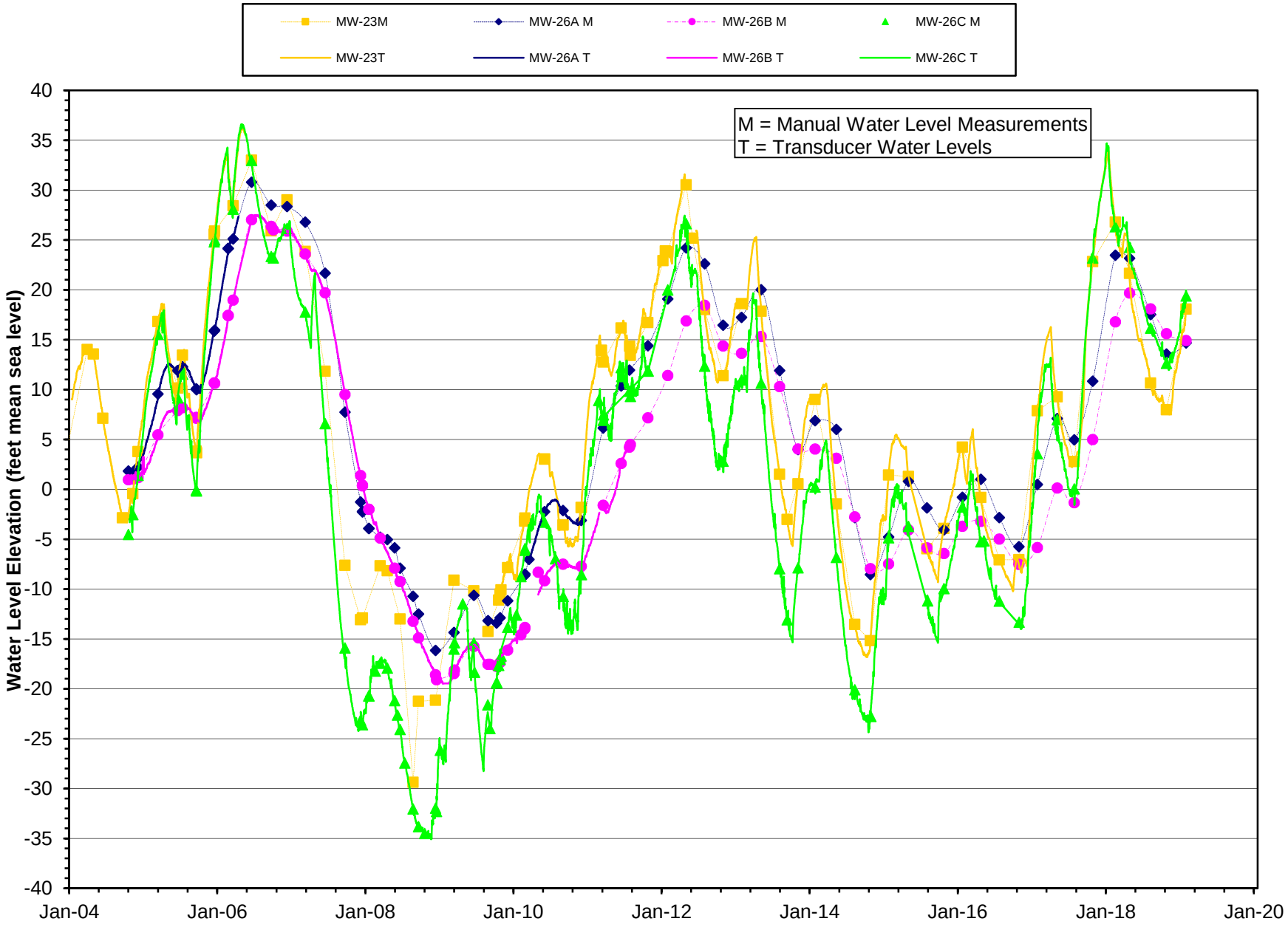


FIGURE 16. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, MONITOR WELL CLUSTER MW-23/26A/26B/26C

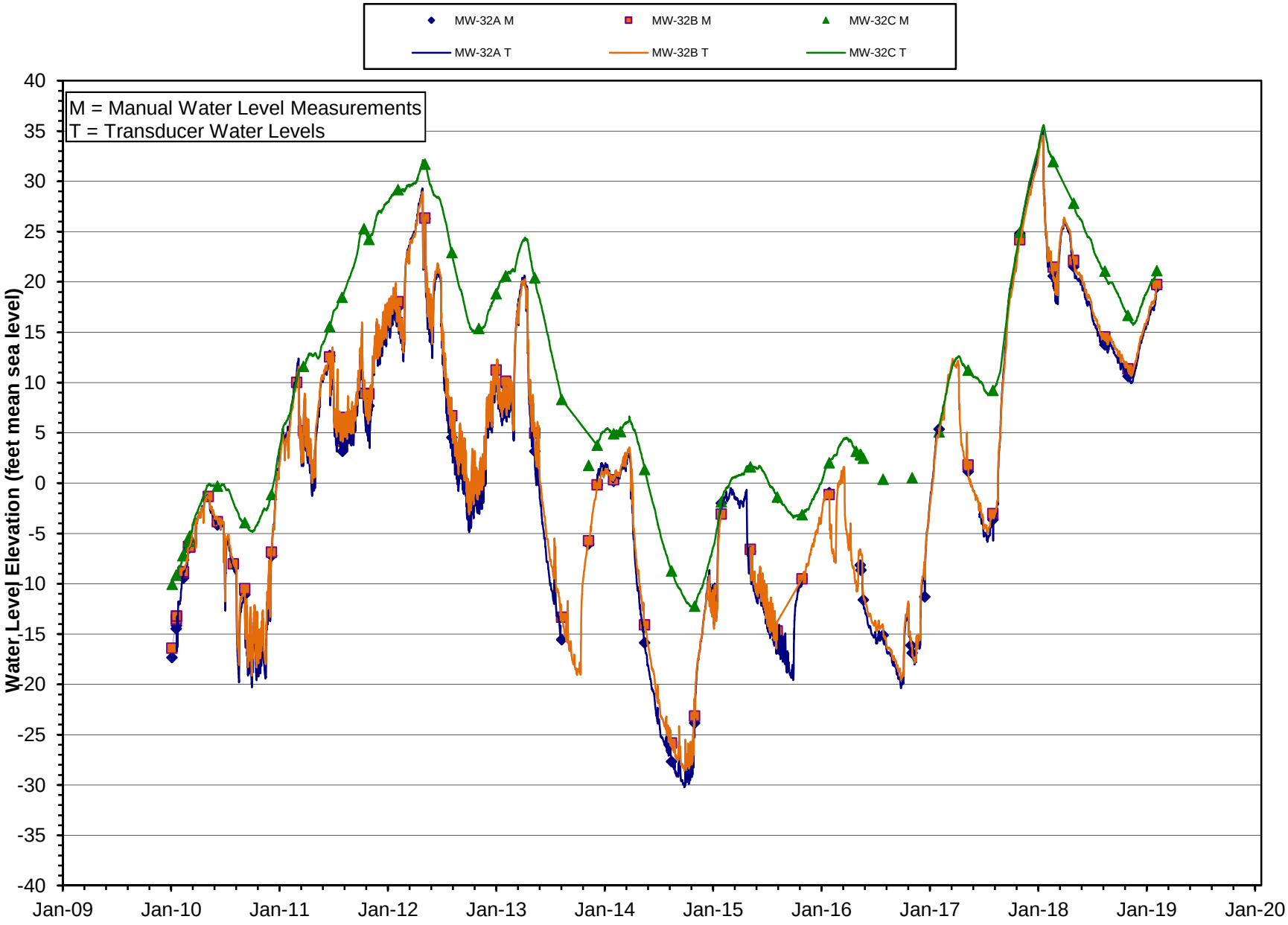


FIGURE 17. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, NESTED MONITOR WELLS MW-32A/32B/32C

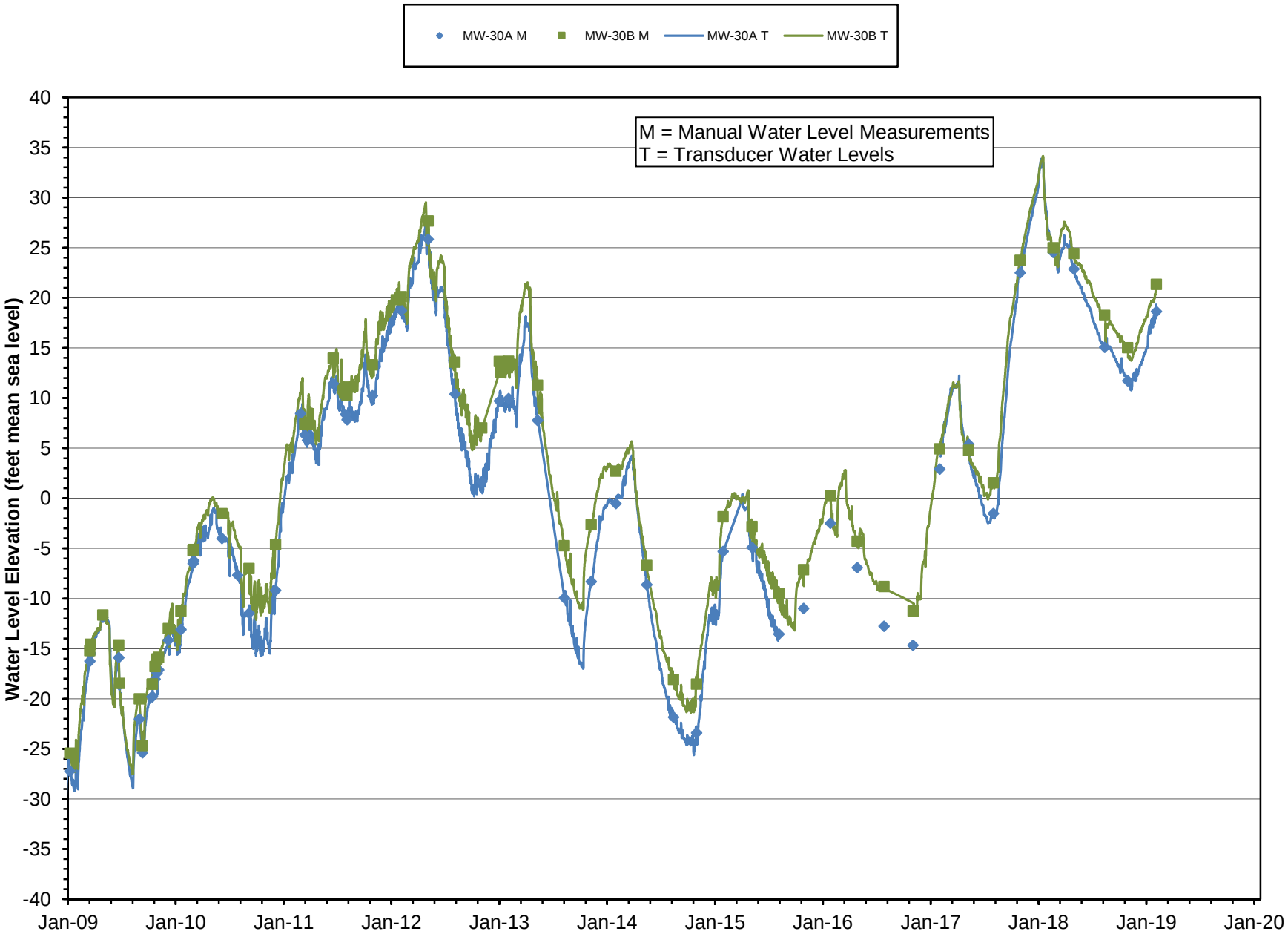


FIGURE 18. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, NESTED MONITOR WELLS MW-30A/30B

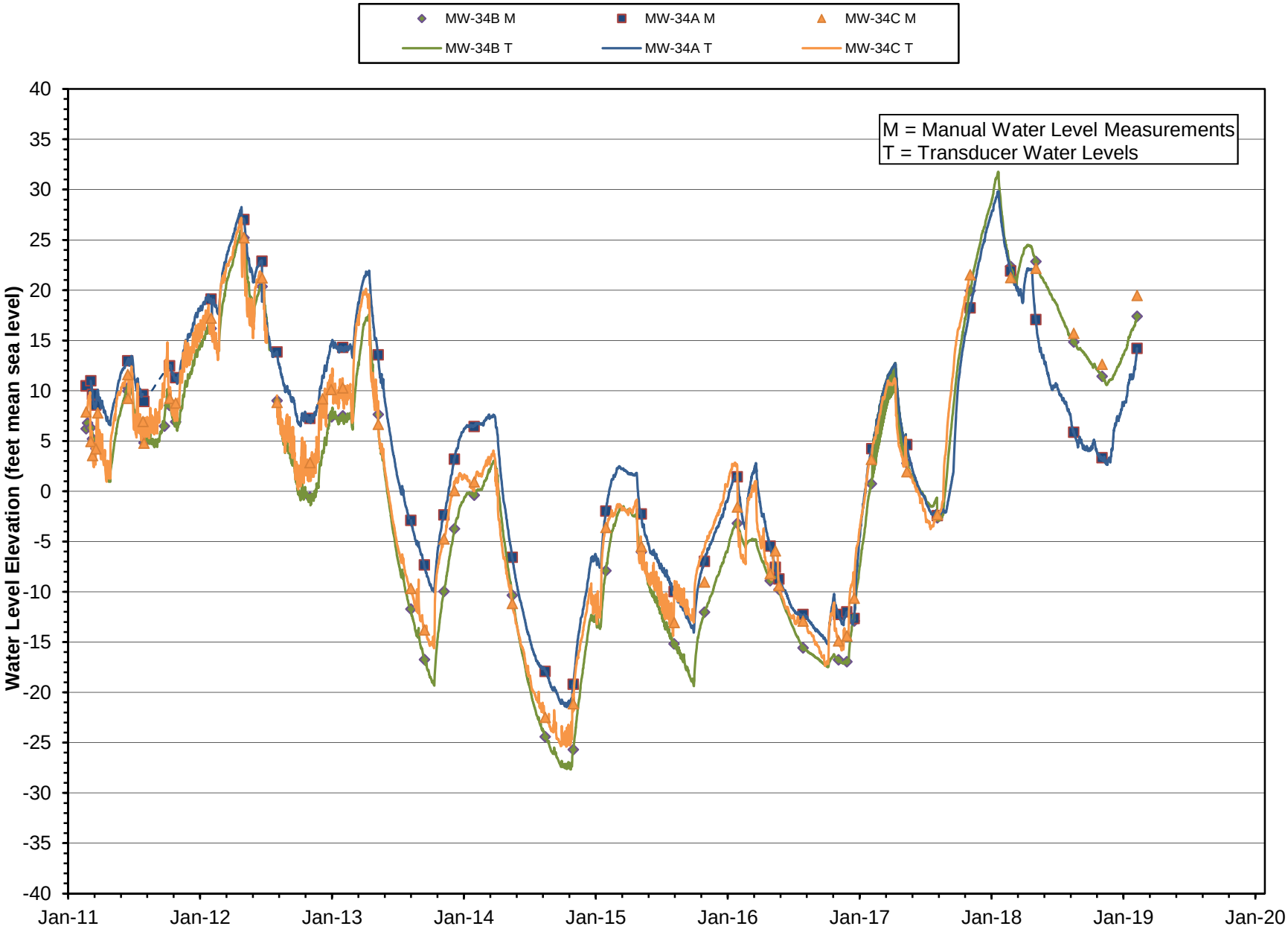


FIGURE 19. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, MONITOR WELL CLUSTER MW-34A/34B/34C

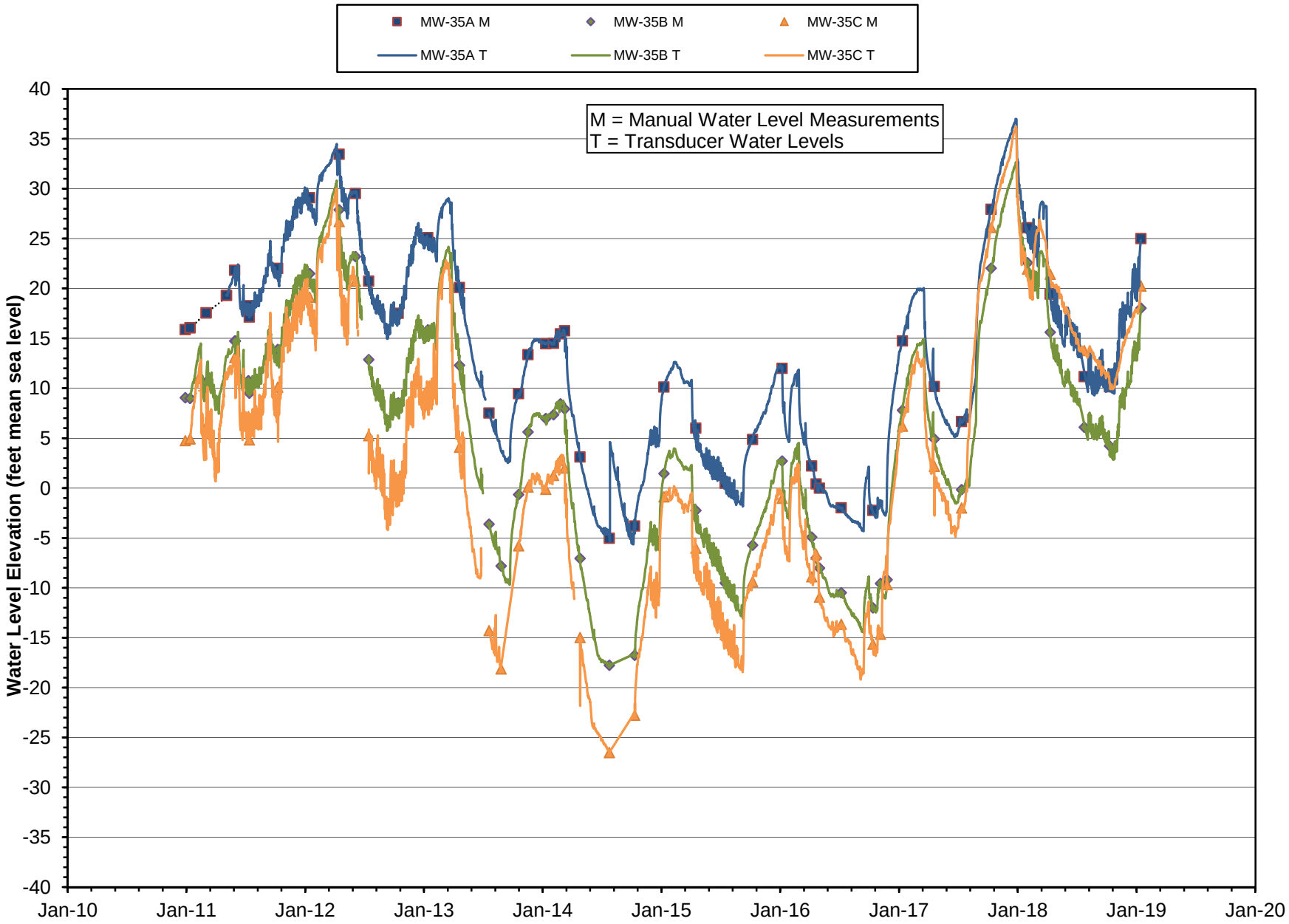


FIGURE 20. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, NESTED MONITOR WELLS MW-35A/35B/35C

EXPLANATION

MW-09 GROUNDWATER MONITOR WELL

MW-25 GROUNDWATER PIEZOMETER

P-09 PERCHED ZONE PIEZOMETER

EW-01 GROUNDWATER EXTRACTION WELL

PGETS PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM FACILITY COMPOUND

FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000

CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS

DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT

SITE BOUNDARY

1,1-DCE 1,1-DICHLOROETHENE

DIOX 1,4-DIOXANE

TCE TRICHLOROETHENE

< LESS THAN; VALUE IS THE LIMIT OF DETECTION FOR RESPECTIVE COMPOUND

E DATA QUALIFIED AS ESTIMATED

J ESTIMATED VALUE, ANALYTE DETECTED AT LESS THAN THE REPORTING LIMIT AND GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT

NS NOT SAMPLED

HYDROGEOLOGIC ZONES:

PERCHED	AB	C
OTHER	B	D
A	BC	

NOTES:

1. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER.
2. ONLY ORIGINAL SAMPLE RESULTS POSTED.

MW-41 (B)

Date	1,1-DCE	TCE	DIOX
May 2018	30	< 0.50	3.7
Aug 2018	39	< 0.50	4.5
Nov 2018	21	< 0.50	7.7
Feb 2019	14	< 0.50	2.3

MW-34A (A)

Date	1,1-DCE	TCE	DIOX
Aug 2018	< 0.50	<0.50	< 0.20
Feb 2019	< 0.50	< 0.50	< 0.20

MW-34B (B)

Date	1,1-DCE	TCE	DIOX
May 2018	35	< 0.50	11
Aug 2018	41	0.16 J	11
Nov 2018	35	0.19 J	17
Feb 2019	26	< 0.50	3.2

MW-34C(BC)

Date	1,1-DCE	TCE	DIOX
Aug 2018	< 0.50	< 0.50	< 0.20
Feb 2019	< 0.50	< 0.50	< 0.20

MW-37 (D)

Date	1,1-DCE	TCE	DIOX
Feb 2019	< 0.50	< 0.50	< 0.20

MW-30A (B)

Date	1,1-DCE	TCE	DIOX
May 2018	< 0.50	< 0.50	< 0.20
Aug 2018	< 0.50	0.41 J	< 0.20
Nov 2018	0.20 J	0.54	< 0.20
Feb 2019	< 0.50	< 0.50	< 0.20

MW-30B (BC)

Date	1,1-DCE	TCE	DIOX
May 2018	19	110	< 0.20
Aug 2018	16	82	0.52
Nov 2018	20	80	0.49
Feb 2019	18	82	0.60

MW-09 (C)

Date	1,1-DCE	TCE	DIOX
Aug 2018	< 0.50	< 0.50	< 0.20
Feb 2019	< 0.50	< 0.50	< 0.20

MW-08 (BC)

Date	1,1-DCE	TCE	DIOX
May 2018	25	90	0.43
Aug 2018	19	120	< 0.20
Nov 2018	43 E	120	2.4
Feb 2019	75	93	6.7

MW-29 (B)

Date	1,1-DCE	TCE	DIOX
May 2018	100	1.3	43
Aug 2018	110	1.5	65
Nov 2018	120	1.8	140
Feb 2019	150	1.7	93

MW-15 (AB)

Date	1,1-DCE	TCE	DIOX
Aug 2018	4.9	0.89	NA
Feb 2019	< 0.50	1.9	NA

EW-02 (B)

Date	1,1-DCE	TCE	DIOX
May 2018	10	< 0.50	< 2.0
Aug 2018	12	< 0.50	6.8
Nov 2018	12	< 0.50	7.5
Feb 2019	8.8	< 0.50	< 2.0

MW-28 (B)

Date	1,1-DCE	TCE	DIOX
May 2018	0.49 J	< 0.50	< 0.20
Aug 2018	0.49 J	< 0.50	< 0.20
Nov 2018	< 0.50	< 0.50	< 0.20
Feb 2019	0.71	< 0.50	< 0.20

MW-20 (D)

Date	1,1-DCE	TCE	DIOX
Aug 2018	3.5	< 0.50	< 0.20
Feb 2019	5.3	< 0.50	< 0.20

MW-06 (D)

Date	1,1-DCE	TCE	DIOX
Feb 2019	< 0.50	< 0.50	< 0.20

P-09 (PERCHED)

Date	1,1-DCE	TCE	DIOX
Feb 2019	4.7	0.11 J	0.43

SEE DETAIL BELOW

MW-32A (AB)

Date	1,1-DCE	TCE	DIOX
Aug 2018	< 0.50	< 0.50	< 0.20
Feb 2019	< 0.50	< 0.50	< 0.20

MW-32B (B)

Date	1,1-DCE	TCE	DIOX
May 2018	120	38	1.6
Aug 2018	100	44	1.8
Nov 2018	140	45	6.9
Feb 2019	140	33	< 2.0

MW-32C (C)

Date	1,1-DCE	TCE	DIOX
Aug 2018	< 0.50	< 0.50	< 0.20
Feb 2019	< 0.50	< 0.50	< 0.20

MW-26C (B)

Date	1,1-DCE	TCE	DIOX
May 2018	< 0.50	< 0.50	< 2.0
Aug 2018	< 0.50	< 0.50	< 0.20
Nov 2018	< 0.50	< 0.50	< 0.20
Feb 2019	< 0.50	< 0.50	< 0.20

MW-31 (B)

Date	1,1-DCE	TCE	DIOX
May 2018	78	7.4	2.6
Aug 2018	140	8.4	4.7
Nov 2018	240	11	8.8
Feb 2019	57	6.0	< 2.0

MW-27 (B)

Date	1,1-DCE	TCE	DIOX
Feb 2019	< 0.50	< 0.50	< 0.20

MW-13 (AB)

Date	1,1-DCE	TCE	DIOX
Feb 2019	< 0.50	< 0.50	< 0.20

MW-35C (B)

Date	1,1-DCE	TCE	DIOX
May 2018	< 0.50	< 0.50	< 2.0
Aug 2018	< 0.50	< 0.50	< 0.20
Nov 2018	< 0.50	< 0.50	< 0.20
Feb 2019	< 0.50	< 0.50	< 0.20

MW-39 (B)

Date	1,1-DCE	TCE	DIOX
May 2018	< 0.50	< 0.50	< 2.0
Aug 2018	< 0.50	< 0.50	< 0.20
Nov 2018	< 0.50	< 0.50	< 0.20
Feb 2019	< 0.50	< 0.50	< 0.20

MW-36 (B)

Date	1,1-DCE	TCE	DIOX
May 2018	83	< 0.50	4.9
Aug 2018	59	< 0.50	4.4
Nov 2018	52	< 0.50	7.3
Feb 2019	85	< 0.50	3.0

MW-33 (B)

Date	1,1-DCE	TCE	DIOX
May 2018	6.9	< 0.50	< 0.20
Aug 2018	3.4	0.19 J	< 0.20
Nov 2018	3.2	0.19 J	< 0.20
Feb 2019	4.7	0.51	< 0.20

MW-18 (A)

Date	1,1-DCE	TCE	DIOX
Aug 2018	< 0.50	< 0.50	< 0.20
Feb 2019	< 0.50	< 0.50	< 0.20

MW-40 (B)

Date	1,1-DCE	TCE	DIOX
May 2018	< 0.50	< 0.50	< 0.20
Aug 2018	< 0.50	< 0.50	< 0.20
Nov 2018	< 0.50	< 0.50	< 0.20

MW-16 (B)

Date	1,1-DCE	TCE	DIOX
Aug 2018	580	4.1	60
Feb 2019	640	5.1	81

MW-24 (C)

Date	1,1-DCE	TCE	DIOX
Feb 2019	< 0.50	< 0.50	< 0.20

MW-21 (BC)

Date	1,1-DCE	TCE	DIOX
May 2018	710	11	73
Aug 2018	920	16	200
Nov 2018	880	15 E	310
Feb 2019	840	12	670

EW-01 (B)

Date	1,1-DCE	TCE	DIOX
May 2018	47	< 0.50	23
Aug 2018	85	< 0.50	41
Nov 2018	81	0.39 J	55
Feb 2019	29	< 0.50	17

DETAIL AREA

P-07 (PERCHED)

Date	1,1-DCE	TCE	DIOX
Feb 2019	1,400	6.1	1,700

CITY OF FULLERTON WELL NO. 9

OCWD AIRPORT TEST WELL 3S/11W-36A6

0 250 500 FEET

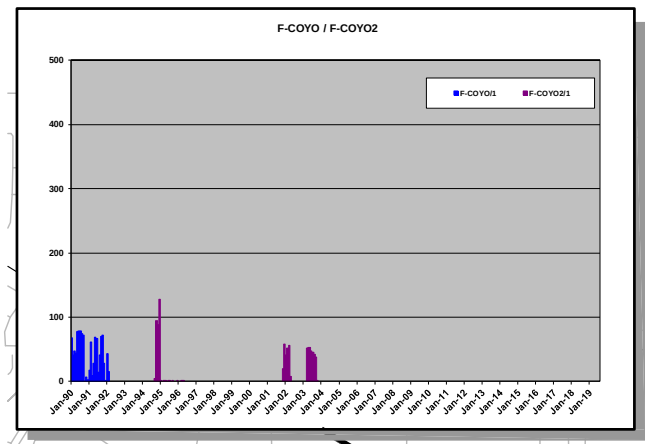
0 50 100 FEET

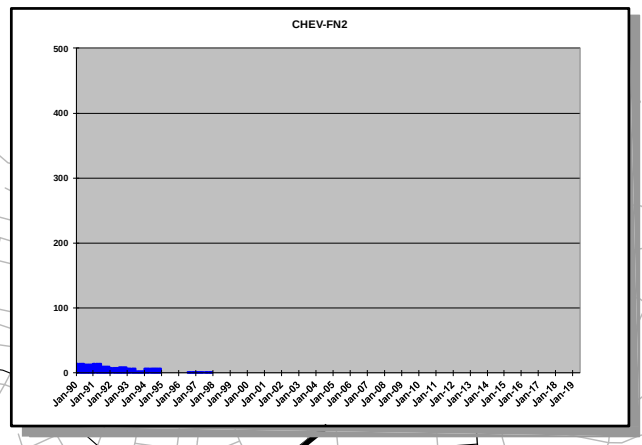
Apr 04, 2019 - 2:12pm ESS - T:\2019\500-599\532 Raytheon\Hydrogeology\Water Qual\210-5064.dwg

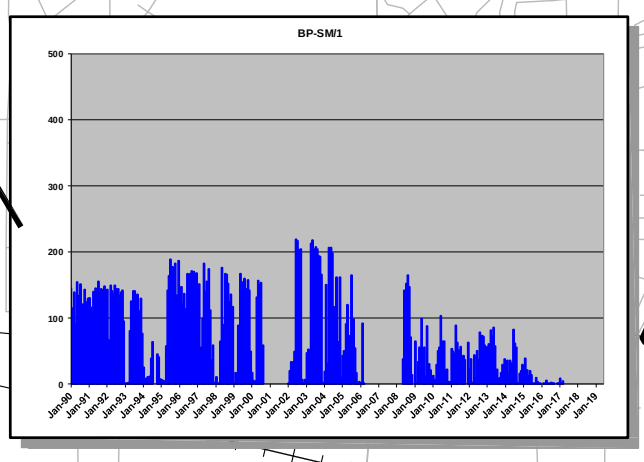
HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

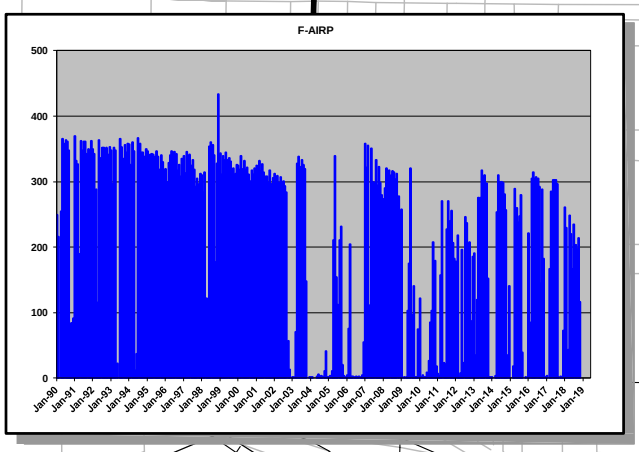
04/19 | RPT NO. 532.31 | 210-5064 | A

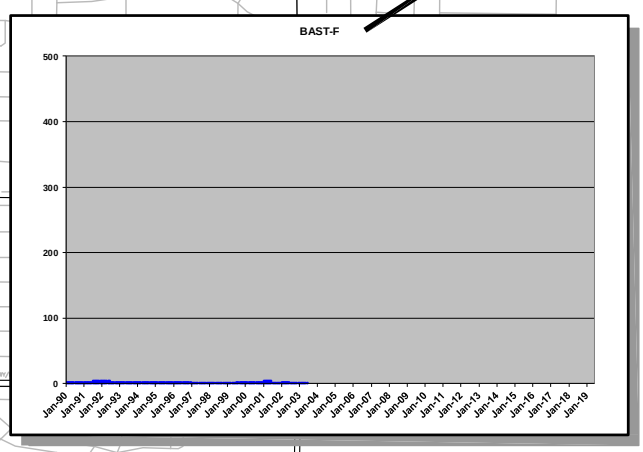
FIGURE 21.
1,1-DICHLOROETHYLENE, TRICHLOROETHYLENE, AND 1,4-DIOXANE IN THE REGIONAL GROUNDWATER SYSTEM MAY 2018 THROUGH FEBRUARY 2019

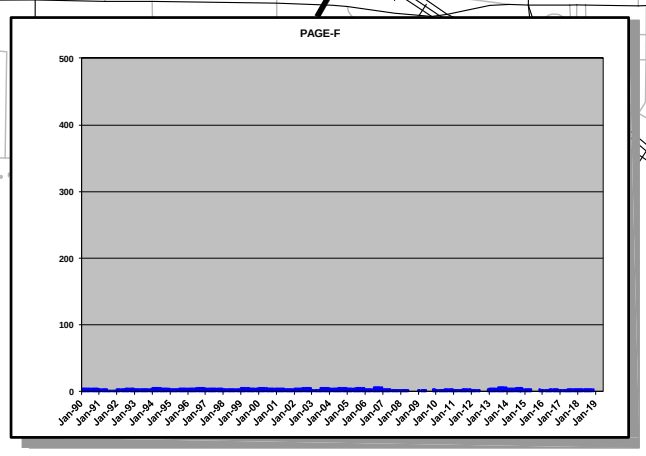


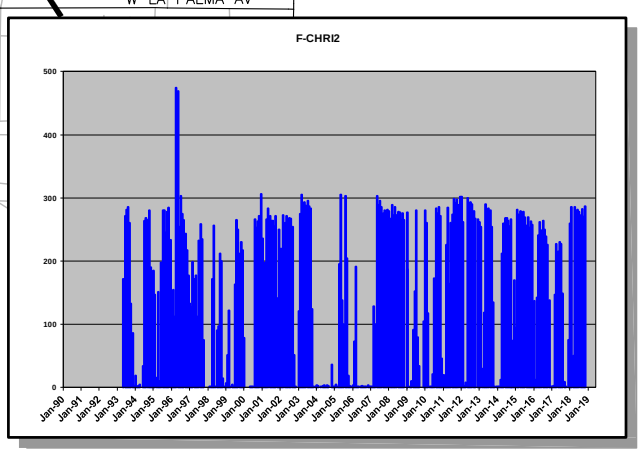












ROSECRANS AV

F–COYO/
F–COYO2

CHEV–FN2

PIONEER AV

N GILBERT ST

FORMER
RAYTHEON
COMPANY SITE

W BASTANCHURY RD

PARKS RD

W VALLEY VIEW DR

N EUCLID ST

W MALVERN AV

W CHAPMAN AV

BP–SM

ARTESIA AV

F–AIRP

OCWD–AIR1

N GILBERT ST

W COMMONWEALTH AV

S RICHMAN AV

BROOKHURST RD

W VALENCIA DR

BAST–1

ORANGETHORPE AV

F–CHRI2

PAGE–F

HP–BOIS
(NO PRODUCTION
DATA PROVIDED)

S MAGNOLIA AV

LA PALMA AV

W LA PALMA AV

EXPLANATION

- ACTIVE OR RECENTLY ACTIVE PRODUCTION WELL
- REGIONAL OBSERVATION

NOTE: GRAPHS INDICATE MONTHLY GROUNDWATER PRODUCTION IN ACRE–FEET

0 2,000 4,000

FEET

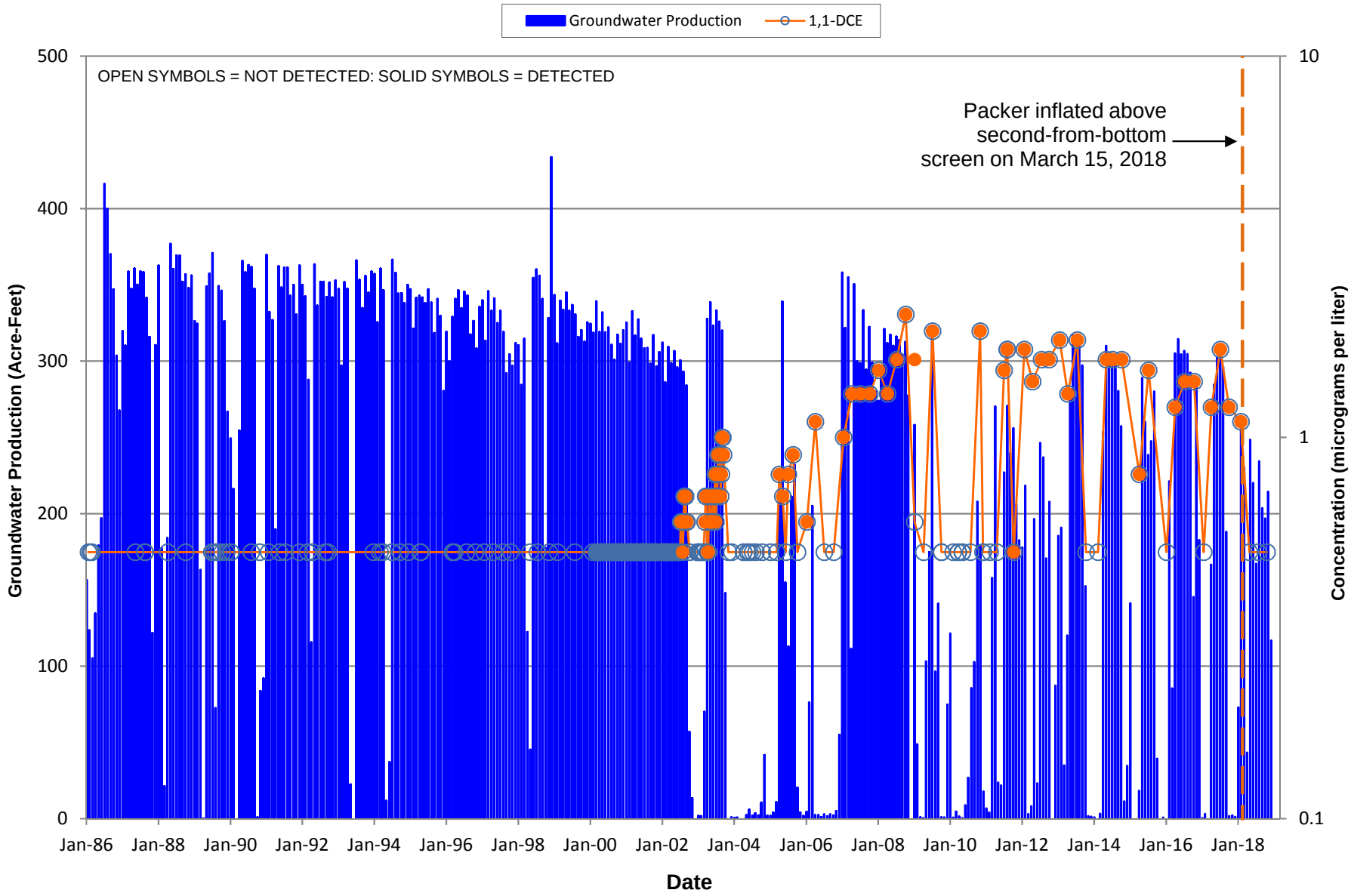
Apr 02, 2019 – 12:28pm ESS – T:\2019\500-599\532 Raytheon\Hydrogeology\Presentation\810-2977.dwg

04/19	RPT NO. 532.31	810-2977	A

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

FIGURE 22.
REGIONAL PRODUCTION WELLS

FIGURE 23.
F-AIRP WELL PRODUCTION AND 1,1-DICHLOROETHYLENE CONCENTRATIONS



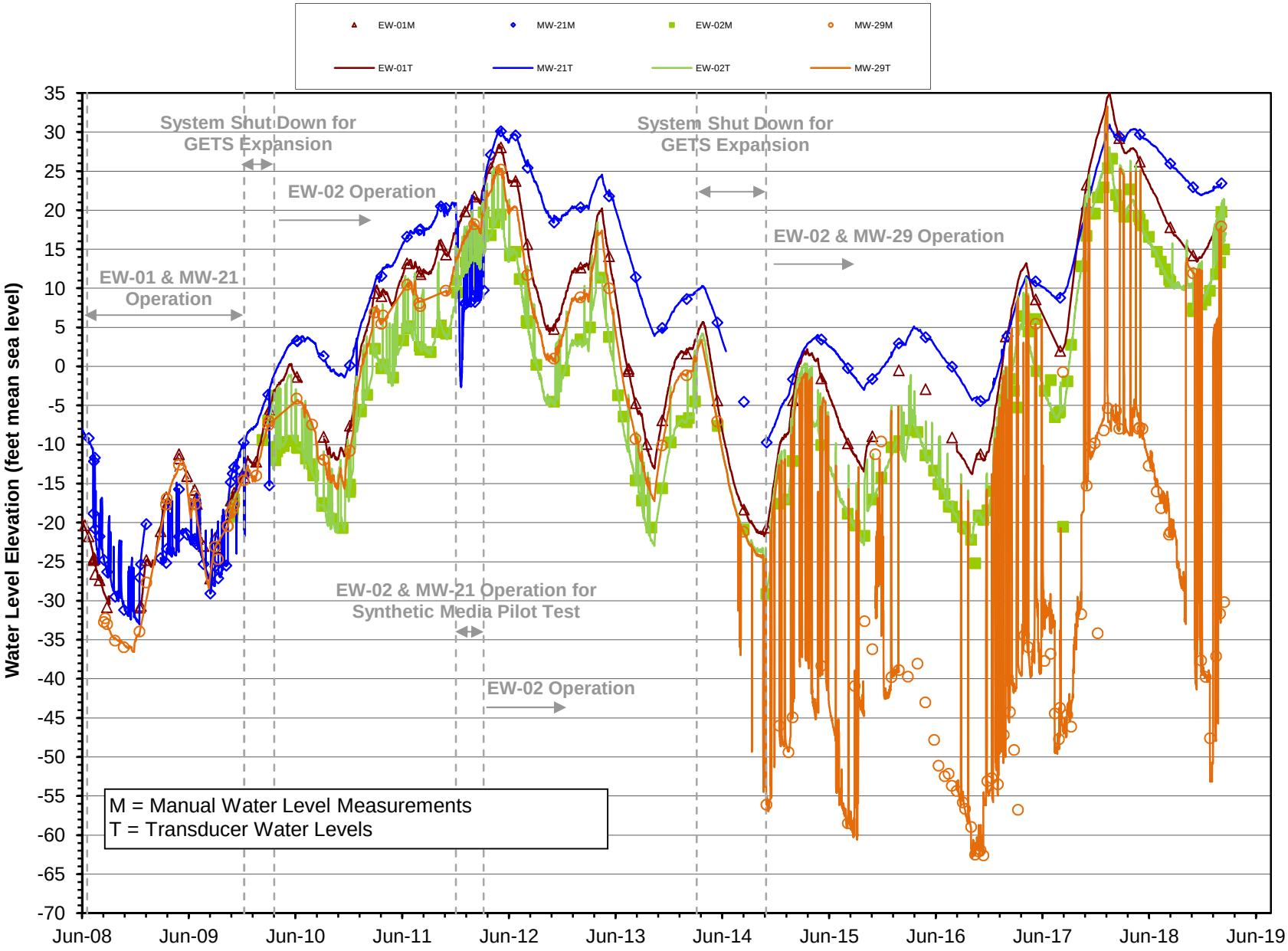


FIGURE 24.
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM OPERATION AND EXTRACTION WELL WATER LEVELS

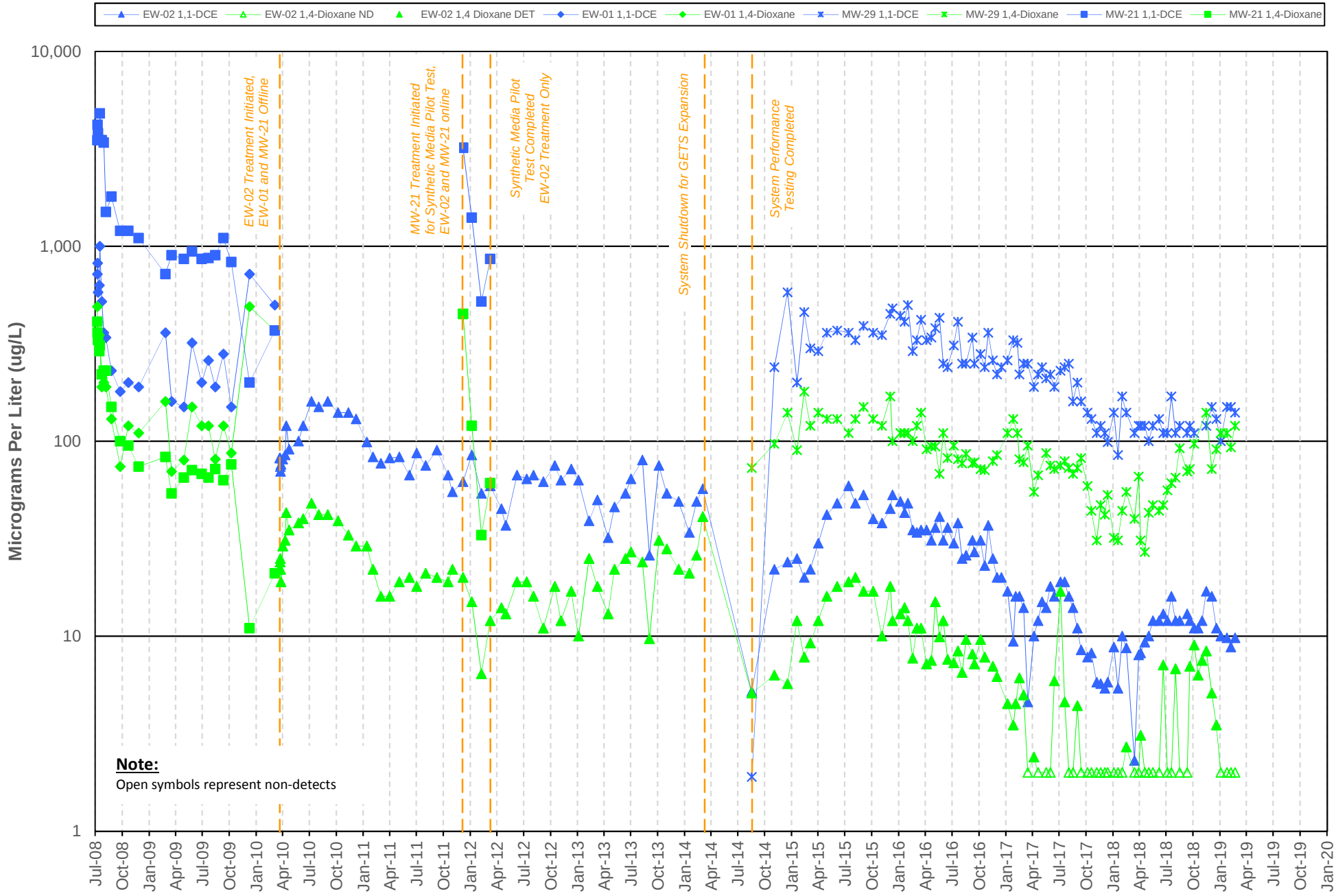
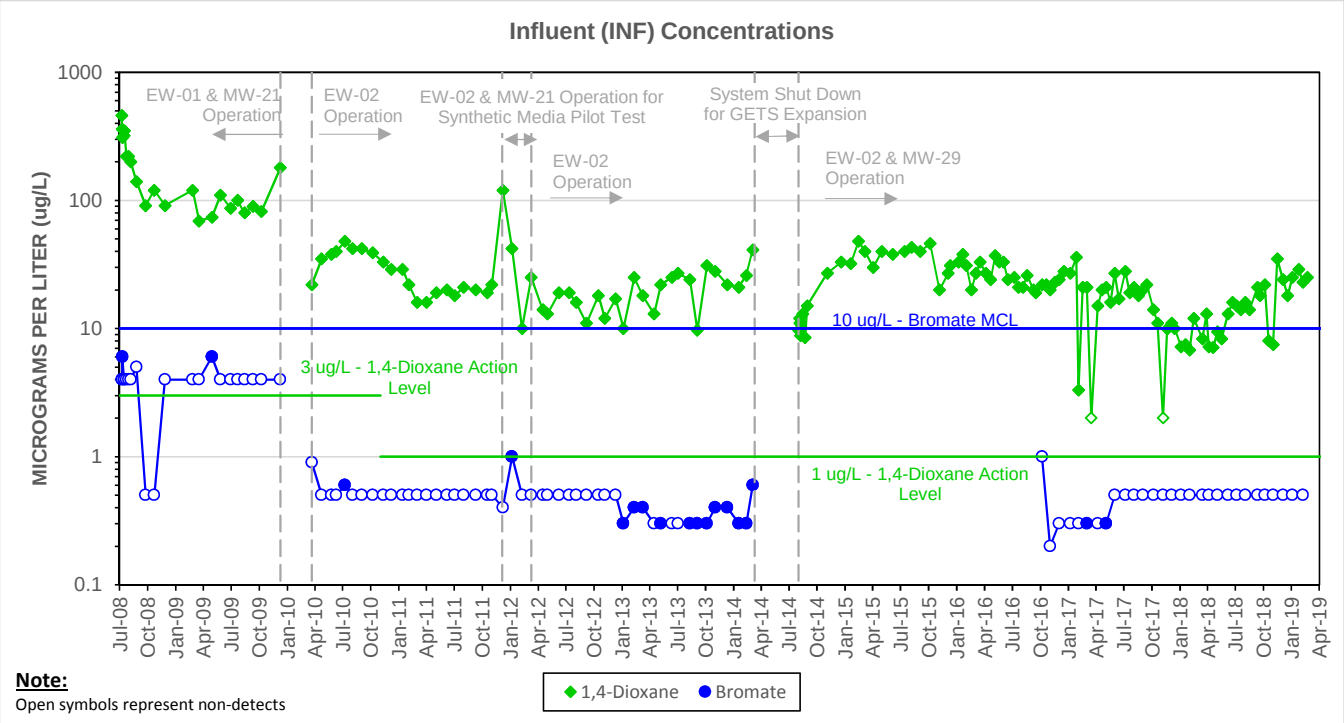
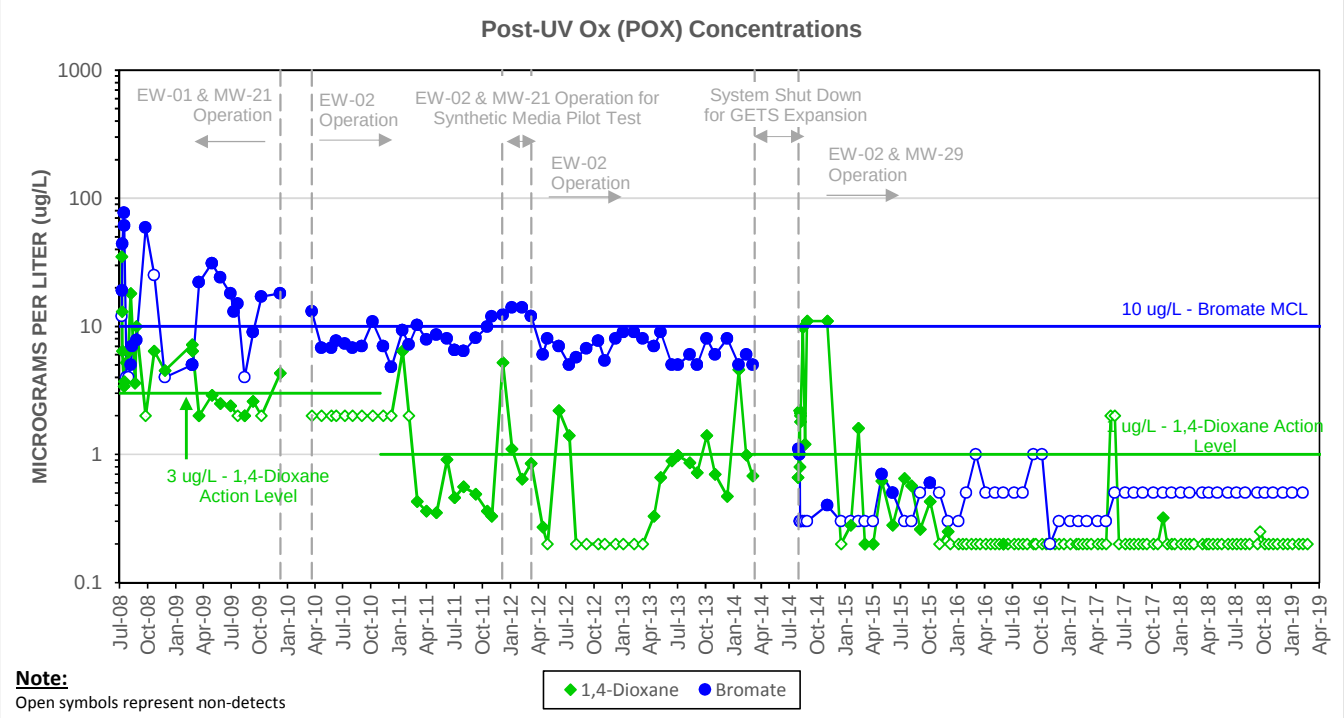


FIGURE 25.
1,1-DICHLOROETHYLENE AND 1,4-DIOXANE CONCENTRATIONS IN EXTRACTION WELLS



Note:
Open symbols represent non-detects



Note:
Open symbols represent non-detects

FIGURE 26.
1,4-DIOXANE AND BROMATE IN INFLUENT AND POST-OXIDATION SAMPLES

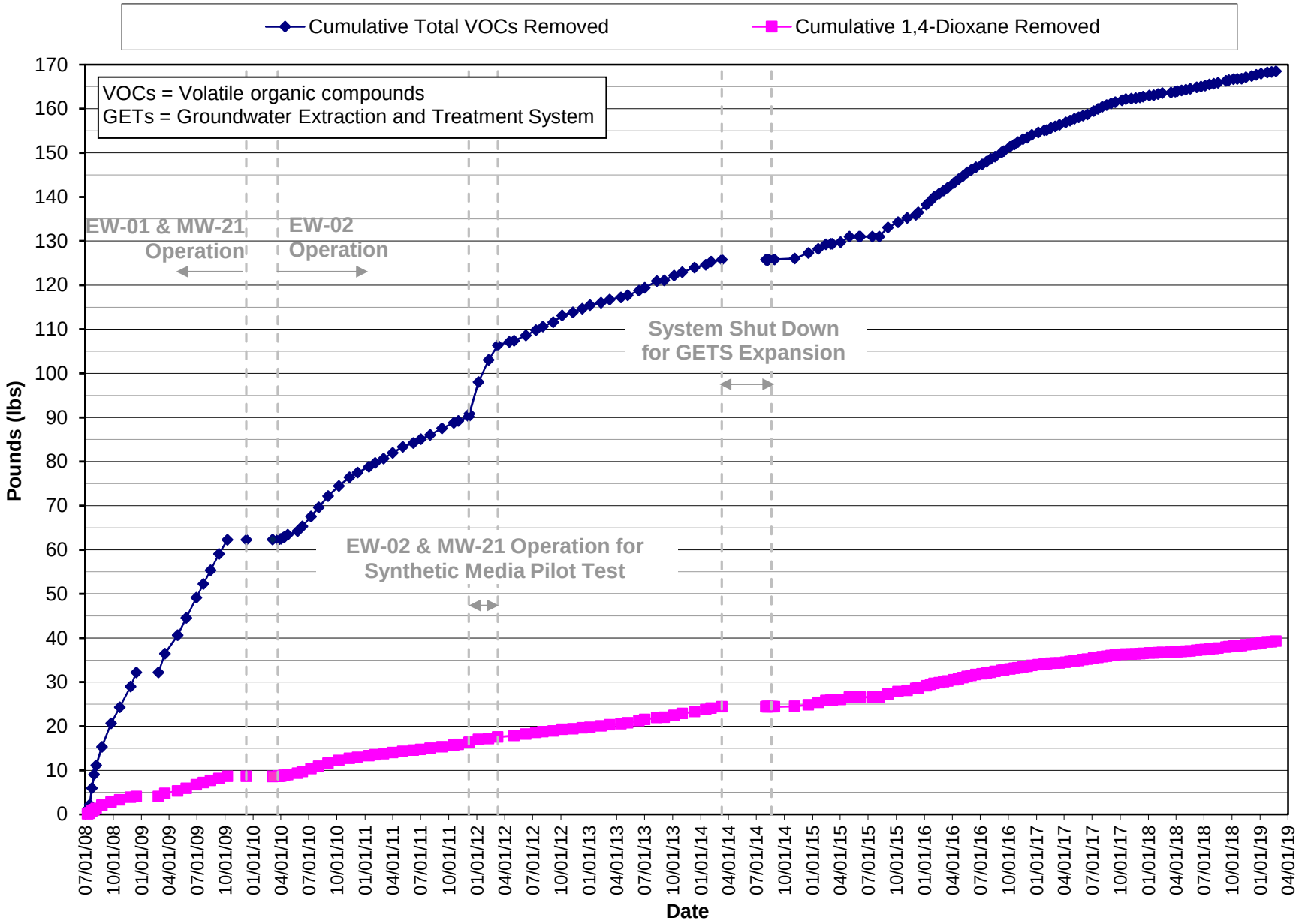


FIGURE 27.
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM MASS REMOVAL

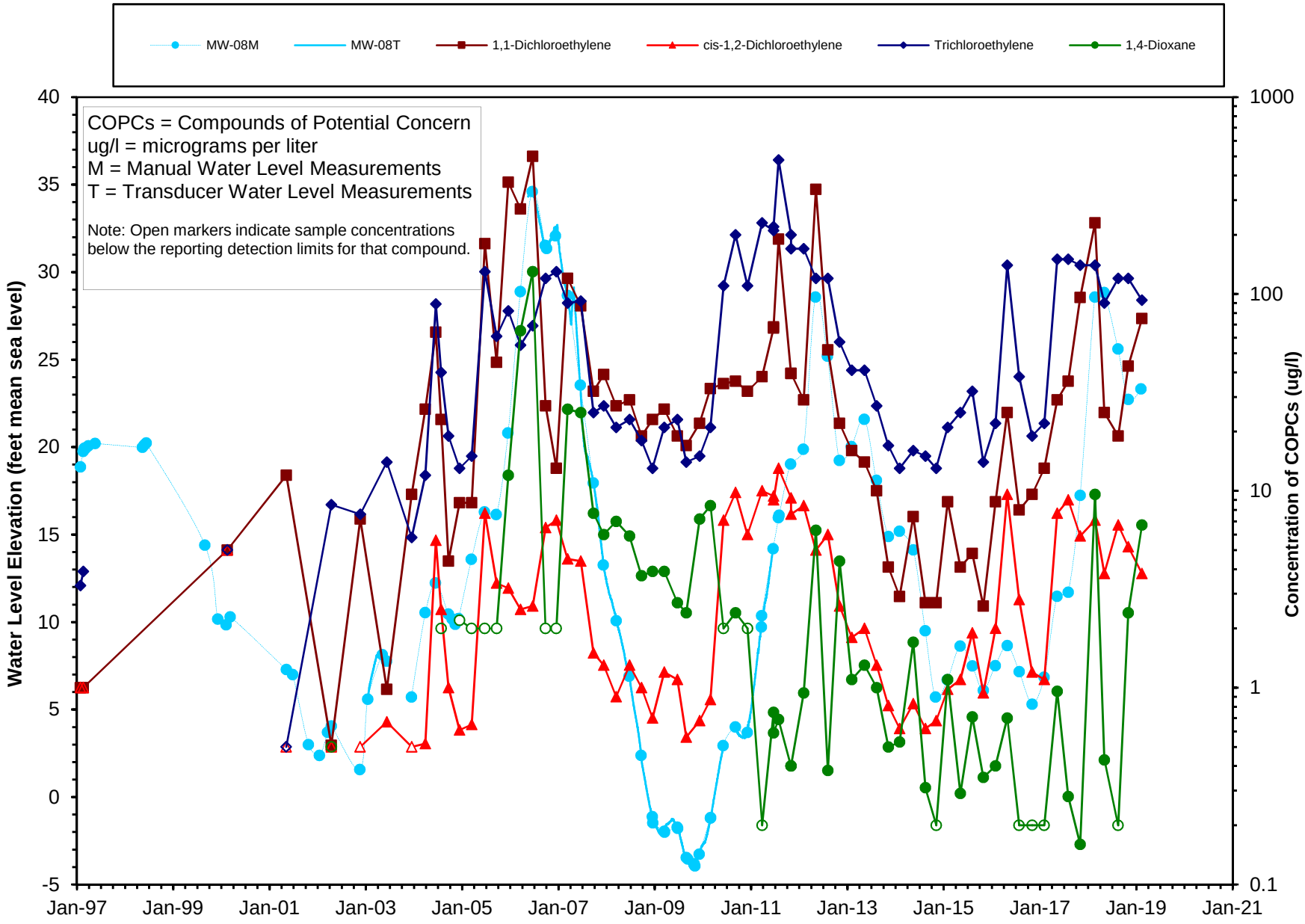


FIGURE 28. WATER LEVEL AND WATER QUALITY, MONITOR WELL MW-08

APPENDIX A

LABORATORY ANALYTICAL REPORTS

GROUNDWATER ANALYTICAL RESULTS

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WORK ORDER NUMBER: 19-02-0837

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Hargis + Associates, Inc.

Client Project Name: Raytheon Main / 532.30

Attention: Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122-6215

Approved for release on 02/19/2019 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 19-02-0837

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Work Order Narrative

Work Order: 19-02-0837 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 02/12/19. They were assigned to Work Order 19-02-0837.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	Hargis + Associates, Inc. 9171 Towne Centre Drive, Suite 375 San Diego, CA 92122-6215	Work Order:	19-02-0837
		Project Name:	Raytheon Main / 532.30
		PO Number:	
		Date/Time Received:	02/12/19 17:30
		Number of Containers:	7
Attn:	Steve Netto		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
TB-021219B	19-02-0837-1	02/12/19 08:05	3	Aqueous
MW-30B	19-02-0837-2	02/12/19 09:15	4	Aqueous

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Detections Summary

Client:	Hargis + Associates, Inc. 9171 Towne Centre Drive, Suite 375 San Diego, CA 92122-6215	Work Order:	19-02-0837
		Project Name:	Raytheon Main / 532.30
		Received:	02/12/19
Attn:	Steve Netto		Page 1 of 1

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MW-30B (19-02-0837-2)						
Chloroform	0.40	J	0.18*	ug/L	EPA 8260B	EPA 5030C
1,2-Dichloroethane	0.23	J	0.19*	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	18		1.0	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	5.1		1.0	ug/L	EPA 8260B	EPA 5030C
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.8	J	0.62*	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	92		1.0	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Project: Raytheon Main / 532.30

Date Received: 02/12/19
Work Order: 19-02-0837
Preparation: EPA 3510C
Method: EPA 8270C (M) SIM Isotope Dil
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-30B	**19-02-0837-2-D**	**02/12/19 09:15**	**Aqueous**	**GC/MS DDD**	**02/14/19**	**02/14/19 17:04**	**190214L02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
1,4-Dioxane	ND	1.0	0.18	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Nitrobenzene-d5	83	56-123	
1,4-Dioxane-d8(IDS-IS)	32	30-120	

Method Blank	099-16-216-1628	N/A	Aqueous	GC/MS DDD	02/14/19	02/14/19 14:10	190214L02

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
1,4-Dioxane	ND	1.0	0.18	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Nitrobenzene-d5	108	56-123	
1,4-Dioxane-d8(IDS-IS)	37	30-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 02/12/19
Work Order: 19-02-0837
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Main / 532.30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-021219B	**19-02-0837-1-A**	**02/12/19 08:05**	**Aqueous**	**GC/MS FFF**	**02/14/19**	**02/15/19 08:34**	**190214L034**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	1.0	0.14	1.00	
Bromobenzene	ND	1.0	0.19	1.00	
Bromochloromethane	ND	2.0	0.46	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	1.8	1.00	
Bromomethane	ND	50	19	1.00	
2-Butanone	ND	20	6.6	1.00	
n-Butylbenzene	ND	1.0	0.30	1.00	
sec-Butylbenzene	ND	1.0	0.19	1.00	
tert-Butylbenzene	ND	1.0	0.25	1.00	
Carbon Disulfide	ND	10	0.70	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.16	1.00	
Chloroethane	ND	5.0	0.76	1.00	
Chloroform	ND	1.0	0.18	1.00	
Chloromethane	ND	10	0.50	1.00	
2-Chlorotoluene	ND	1.0	0.16	1.00	
4-Chlorotoluene	ND	1.0	0.18	1.00	
Dibromochloromethane	ND	2.0	0.46	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.1	1.00	
1,2-Dibromoethane	ND	1.0	0.27	1.00	
Dibromomethane	ND	1.0	0.30	1.00	
1,2-Dichlorobenzene	ND	1.0	0.14	1.00	
1,3-Dichlorobenzene	ND	1.0	0.19	1.00	
1,4-Dichlorobenzene	ND	1.0	0.24	1.00	
Dichlorodifluoromethane	ND	5.0	0.28	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.19	1.00	
1,1-Dichloroethene	ND	1.0	0.22	1.00	
c-1,2-Dichloroethene	ND	1.0	0.27	1.00	
t-1,2-Dichloroethene	ND	1.0	0.40	1.00	
1,2-Dichloropropane	ND	1.0	0.20	1.00	
1,3-Dichloropropane	ND	1.0	0.14	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.		Date Received:	02/12/19
9171 Towne Centre Drive, Suite 375		Work Order:	19-02-0837
San Diego, CA 92122-6215		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Raytheon Main / 532.30			Page 2 of 6

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.44	1.00	
1,1-Dichloropropene	ND	1.0	0.17	1.00	
c-1,3-Dichloropropene	ND	0.50	0.20	1.00	
t-1,3-Dichloropropene	ND	0.50	0.23	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	5.3	1.00	
Isopropylbenzene	ND	1.0	0.16	1.00	
p-Isopropyltoluene	ND	1.0	0.22	1.00	
Methylene Chloride	ND	10	4.0	1.00	
4-Methyl-2-Pentanone	ND	10	0.46	1.00	
Naphthalene	ND	10	5.1	1.00	
n-Propylbenzene	ND	1.0	0.18	1.00	
Styrene	ND	1.0	0.15	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	0.43	1.00	
1,1,2,2-Tetrachloroethane	ND	10	0.17	1.00	
Tetrachloroethene	ND	1.0	0.24	1.00	
Toluene	ND	1.0	0.13	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.28	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.34	1.00	
1,1,1-Trichloroethane	ND	1.0	0.31	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.62	1.00	
1,1,2-Trichloroethane	ND	1.0	0.22	1.00	
Trichloroethene	ND	1.0	0.24	1.00	
Trichlorofluoromethane	ND	10	0.28	1.00	
1,2,3-Trichloropropane	ND	5.0	0.22	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.21	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.17	1.00	
Vinyl Acetate	ND	10	2.9	1.00	
Vinyl Chloride	ND	0.50	0.16	1.00	
p/m-Xylene	ND	2.0	0.31	1.00	
o-Xylene	ND	1.0	0.15	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	77-120	
Dibromofluoromethane	98	80-128	
1,2-Dichloroethane-d4	88	80-129	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 02/12/19
Work Order: 19-02-0837
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Main / 532.30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-30B	**19-02-0837-2-A**	**02/12/19 09:15**	**Aqueous**	**GC/MS FFF**	**02/14/19**	**02/15/19 10:59**	**190214L034**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	1.0	0.14	1.00	
Bromobenzene	ND	1.0	0.19	1.00	
Bromochloromethane	ND	2.0	0.46	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	1.8	1.00	
Bromomethane	ND	50	19	1.00	
2-Butanone	ND	20	6.6	1.00	
n-Butylbenzene	ND	1.0	0.30	1.00	
sec-Butylbenzene	ND	1.0	0.19	1.00	
tert-Butylbenzene	ND	1.0	0.25	1.00	
Carbon Disulfide	ND	10	0.70	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.16	1.00	
Chloroethane	ND	5.0	0.76	1.00	
Chloroform	0.40	1.0	0.18	1.00	J
Chloromethane	ND	10	0.50	1.00	
2-Chlorotoluene	ND	1.0	0.16	1.00	
4-Chlorotoluene	ND	1.0	0.18	1.00	
Dibromochloromethane	ND	2.0	0.46	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.1	1.00	
1,2-Dibromoethane	ND	1.0	0.27	1.00	
Dibromomethane	ND	1.0	0.30	1.00	
1,2-Dichlorobenzene	ND	1.0	0.14	1.00	
1,3-Dichlorobenzene	ND	1.0	0.19	1.00	
1,4-Dichlorobenzene	ND	1.0	0.24	1.00	
Dichlorodifluoromethane	ND	5.0	0.28	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	0.23	0.50	0.19	1.00	J
1,1-Dichloroethene	18	1.0	0.22	1.00	
c-1,2-Dichloroethene	5.1	1.0	0.27	1.00	
t-1,2-Dichloroethene	ND	1.0	0.40	1.00	
1,2-Dichloropropane	ND	1.0	0.20	1.00	
1,3-Dichloropropane	ND	1.0	0.14	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 02/12/19
Work Order: 19-02-0837
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Main / 532.30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.44	1.00	
1,1-Dichloropropene	ND	1.0	0.17	1.00	
c-1,3-Dichloropropene	ND	0.50	0.20	1.00	
t-1,3-Dichloropropene	ND	0.50	0.23	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	5.3	1.00	
Isopropylbenzene	ND	1.0	0.16	1.00	
p-Isopropyltoluene	ND	1.0	0.22	1.00	
Methylene Chloride	ND	10	4.0	1.00	
4-Methyl-2-Pentanone	ND	10	0.46	1.00	
Naphthalene	ND	10	5.1	1.00	
n-Propylbenzene	ND	1.0	0.18	1.00	
Styrene	ND	1.0	0.15	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	0.43	1.00	
1,1,2,2-Tetrachloroethane	ND	10	0.17	1.00	
Tetrachloroethene	ND	1.0	0.24	1.00	
Toluene	ND	1.0	0.13	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.28	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.34	1.00	
1,1,1-Trichloroethane	ND	1.0	0.31	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.8	10	0.62	1.00	J
1,1,2-Trichloroethane	ND	1.0	0.22	1.00	
Trichloroethene	92	1.0	0.24	1.00	
Trichlorofluoromethane	ND	10	0.28	1.00	
1,2,3-Trichloropropane	ND	5.0	0.22	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.21	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.17	1.00	
Vinyl Acetate	ND	10	2.9	1.00	
Vinyl Chloride	ND	0.50	0.16	1.00	
p/m-Xylene	ND	2.0	0.31	1.00	
o-Xylene	ND	1.0	0.15	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	77-120	
Dibromofluoromethane	98	80-128	
1,2-Dichloroethane-d4	91	80-129	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 02/12/19
Work Order: 19-02-0837
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Main / 532.30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-28031**	**N/A**	**Aqueous**	**GC/MS FFF**	**02/14/19**	**02/15/19 07:21**	**190214L034**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	1.0	0.14	1.00	
Bromobenzene	ND	1.0	0.19	1.00	
Bromochloromethane	ND	2.0	0.46	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	1.8	1.00	
Bromomethane	ND	50	19	1.00	
2-Butanone	ND	20	6.6	1.00	
n-Butylbenzene	ND	1.0	0.30	1.00	
sec-Butylbenzene	0.25	1.0	0.19	1.00	J
tert-Butylbenzene	ND	1.0	0.25	1.00	
Carbon Disulfide	ND	10	0.70	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.16	1.00	
Chloroethane	ND	5.0	0.76	1.00	
Chloroform	ND	1.0	0.18	1.00	
Chloromethane	ND	10	0.50	1.00	
2-Chlorotoluene	0.17	1.0	0.16	1.00	J
4-Chlorotoluene	ND	1.0	0.18	1.00	
Dibromochloromethane	ND	2.0	0.46	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.1	1.00	
1,2-Dibromoethane	ND	1.0	0.27	1.00	
Dibromomethane	ND	1.0	0.30	1.00	
1,2-Dichlorobenzene	ND	1.0	0.14	1.00	
1,3-Dichlorobenzene	0.21	1.0	0.19	1.00	J
1,4-Dichlorobenzene	ND	1.0	0.24	1.00	
Dichlorodifluoromethane	ND	5.0	0.28	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.19	1.00	
1,1-Dichloroethene	ND	1.0	0.22	1.00	
c-1,2-Dichloroethene	ND	1.0	0.27	1.00	
t-1,2-Dichloroethene	ND	1.0	0.40	1.00	
1,2-Dichloropropane	ND	1.0	0.20	1.00	
1,3-Dichloropropane	ND	1.0	0.14	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 02/12/19
Work Order: 19-02-0837
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Main / 532.30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.44	1.00	
1,1-Dichloropropene	ND	1.0	0.17	1.00	
c-1,3-Dichloropropene	ND	0.50	0.20	1.00	
t-1,3-Dichloropropene	ND	0.50	0.23	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	5.3	1.00	
Isopropylbenzene	0.23	1.0	0.16	1.00	J
p-Isopropyltoluene	ND	1.0	0.22	1.00	
Methylene Chloride	ND	10	4.0	1.00	
4-Methyl-2-Pentanone	ND	10	0.46	1.00	
Naphthalene	ND	10	5.1	1.00	
n-Propylbenzene	0.27	1.0	0.18	1.00	J
Styrene	ND	1.0	0.15	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	0.43	1.00	
1,1,2,2-Tetrachloroethane	ND	10	0.17	1.00	
Tetrachloroethene	ND	1.0	0.24	1.00	
Toluene	ND	1.0	0.13	1.00	
1,2,3-Trichlorobenzene	0.40	1.0	0.28	1.00	J
1,2,4-Trichlorobenzene	0.49	1.0	0.34	1.00	J
1,1,1-Trichloroethane	ND	1.0	0.31	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.62	1.00	
1,1,2-Trichloroethane	ND	1.0	0.22	1.00	
Trichloroethene	ND	1.0	0.24	1.00	
Trichlorofluoromethane	ND	10	0.28	1.00	
1,2,3-Trichloropropane	ND	5.0	0.22	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.21	1.00	
1,3,5-Trimethylbenzene	0.20	1.0	0.17	1.00	J
Vinyl Acetate	ND	10	2.9	1.00	
Vinyl Chloride	ND	0.50	0.16	1.00	
p/m-Xylene	ND	2.0	0.31	1.00	
o-Xylene	ND	1.0	0.15	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	77-120	
Dibromofluoromethane	98	80-128	
1,2-Dichloroethane-d4	89	80-129	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Project: Raytheon Main / 532.30

Date Received: 02/12/19
Work Order: 19-02-0837
Preparation: EPA 3510C
Method: EPA 8270C (M) SIM Isotope Dil

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-0834-8	**Sample**	**Aqueous**	**GC/MS DDD**	**02/14/19**	**02/14/19 16:32**	**190214S02**
19-02-0834-8	**Matrix Spike**	**Aqueous**	**GC/MS DDD**	**02/14/19**	**02/14/19 14:41**	**190214S02**
19-02-0834-8	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS DDD**	**02/14/19**	**02/14/19 14:57**	**190214S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	1.988	20.00	20.17	91	20.69	94	50-130	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Hargis + Associates, Inc.		Date Received:	02/12/19
9171 Towne Centre Drive, Suite 375		Work Order:	19-02-0837
San Diego, CA 92122-6215		Preparation:	EPA 3510C
		Method:	EPA 8270C (M) SIM Isotope Dil
Project: Raytheon Main / 532.30			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-216-1628	**LCS**	**Aqueous**	**GC/MS DDD**	**02/14/19**	**02/14/19 14:25**	**190214L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Dioxane	20.00	19.44	97	50-130	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Project: Raytheon Main / 532.30

Date Received: 02/12/19
Work Order: 19-02-0837
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-28031	**LCS**	**Aqueous**	**GC/MS FFF**	**02/14/19**	**02/15/19 05:32**	**190214L034**
099-14-001-28031	**LCSD**	**Aqueous**	**GC/MS FFF**	**02/14/19**	**02/15/19 06:09**	**190214L034**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	50.00	42.09	84	42.76	86	53-137	39-151	2	0-21	
Benzene	50.00	50.80	102	50.05	100	79-121	72-128	1	0-20	
Bromobenzene	50.00	55.27	111	54.30	109	80-120	73-127	2	0-20	
Bromochloromethane	50.00	50.72	101	49.77	100	80-122	73-129	2	0-20	
Bromodichloromethane	50.00	51.93	104	51.30	103	80-124	73-131	1	0-20	
Bromoform	50.00	51.06	102	52.72	105	73-127	64-136	3	0-20	
Bromomethane	50.00	47.69	95	47.03	94	50-150	33-167	1	0-26	
2-Butanone	50.00	41.87	84	41.34	83	60-126	49-137	1	0-20	
n-Butylbenzene	50.00	50.27	101	49.18	98	72-138	61-149	2	0-20	
sec-Butylbenzene	50.00	51.06	102	49.84	100	77-131	68-140	2	0-20	
tert-Butylbenzene	50.00	51.46	103	50.21	100	80-125	72-132	2	0-20	
Carbon Disulfide	50.00	46.23	92	46.02	92	50-150	33-167	0	0-22	
Carbon Tetrachloride	50.00	47.44	95	47.01	94	65-143	52-156	1	0-20	
Chlorobenzene	50.00	53.34	107	51.99	104	80-120	73-127	3	0-20	
Chloroethane	50.00	47.59	95	46.29	93	62-128	51-139	3	0-20	
Chloroform	50.00	49.91	100	49.58	99	80-120	73-127	1	0-20	
Chloromethane	50.00	40.99	82	40.36	81	43-133	28-148	2	0-20	
2-Chlorotoluene	50.00	50.78	102	49.34	99	80-121	73-128	3	0-20	
4-Chlorotoluene	50.00	49.49	99	48.35	97	80-120	73-127	2	0-20	
Dibromochloromethane	50.00	52.49	105	52.54	105	80-123	73-130	0	0-20	
1,2-Dibromo-3-Chloropropane	50.00	47.24	94	49.36	99	66-126	56-136	4	0-20	
1,2-Dibromoethane	50.00	52.11	104	52.67	105	80-120	73-127	1	0-20	
Dibromomethane	50.00	52.27	105	51.84	104	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	51.97	104	51.87	104	80-120	73-127	0	0-20	
1,3-Dichlorobenzene	50.00	51.91	104	51.40	103	80-120	73-127	1	0-20	
1,4-Dichlorobenzene	50.00	52.47	105	51.88	104	80-120	73-127	1	0-20	
Dichlorodifluoromethane	50.00	36.59	73	35.45	71	50-150	33-167	3	0-30	
1,1-Dichloroethane	50.00	41.95	84	41.49	83	72-126	63-135	1	0-20	
1,2-Dichloroethane	50.00	45.51	91	45.64	91	76-120	69-127	0	0-20	
1,1-Dichloroethene	50.00	43.79	88	43.65	87	66-132	55-143	0	0-20	
c-1,2-Dichloroethene	50.00	52.58	105	52.54	105	78-120	71-127	0	0-20	
t-1,2-Dichloroethene	50.00	50.04	100	49.46	99	66-132	55-143	1	0-20	
1,2-Dichloropropane	50.00	49.28	99	48.88	98	80-120	73-127	1	0-20	
1,3-Dichloropropane	50.00	49.80	100	49.74	99	80-120	73-127	0	0-20	
2,2-Dichloropropane	50.00	43.97	88	42.70	85	50-150	33-167	3	0-20	
1,1-Dichloropropene	50.00	46.98	94	46.43	93	75-123	67-131	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Hargis + Associates, Inc.		Date Received:	02/12/19
9171 Towne Centre Drive, Suite 375		Work Order:	19-02-0837
San Diego, CA 92122-6215		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Raytheon Main / 532.30			Page 3 of 3

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
c-1,3-Dichloropropene	50.00	50.99	102	50.11	100	77-131	68-140	2	0-20	
t-1,3-Dichloropropene	50.00	49.36	99	48.77	98	76-136	66-146	1	0-20	
Ethylbenzene	50.00	51.33	103	50.62	101	80-120	73-127	1	0-20	
2-Hexanone	50.00	43.17	86	43.56	87	63-123	53-133	1	0-20	
Isopropylbenzene	50.00	52.59	105	51.42	103	80-128	72-136	2	0-20	
p-Isopropyltoluene	50.00	51.27	103	50.82	102	73-133	63-143	1	0-20	
Methylene Chloride	50.00	47.98	96	47.77	96	61-133	49-145	0	0-27	
4-Methyl-2-Pentanone	50.00	45.17	90	44.98	90	65-125	55-135	0	0-20	
Naphthalene	50.00	52.05	104	52.41	105	69-129	59-139	1	0-20	
n-Propylbenzene	50.00	51.84	104	50.80	102	80-128	72-136	2	0-20	
Styrene	50.00	54.34	109	53.55	107	80-126	72-134	1	0-20	
1,1,1,2-Tetrachloroethane	50.00	55.38	111	54.76	110	80-129	72-137	1	0-20	
1,1,2,2-Tetrachloroethane	50.00	45.46	91	43.60	87	74-122	66-130	4	0-20	
Tetrachloroethene	50.00	57.01	114	57.54	115	55-139	41-153	1	0-23	
Toluene	50.00	51.43	103	50.35	101	80-120	73-127	2	0-20	
1,2,3-Trichlorobenzene	50.00	51.49	103	52.23	104	72-132	62-142	1	0-20	
1,2,4-Trichlorobenzene	50.00	55.05	110	54.95	110	74-134	64-144	0	0-20	
1,1,1-Trichloroethane	50.00	48.86	98	48.27	97	76-124	68-132	1	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	50.00	38.89	78	38.90	78	54-150	38-166	0	0-30	
1,1,2-Trichloroethane	50.00	52.00	104	51.11	102	80-120	73-127	2	0-20	
Trichloroethene	50.00	52.85	106	54.10	108	79-121	72-128	2	0-20	
Trichlorofluoromethane	50.00	48.03	96	48.04	96	72-132	62-142	0	0-20	
1,2,3-Trichloropropane	50.00	49.51	99	49.99	100	75-123	67-131	1	0-20	
1,2,4-Trimethylbenzene	50.00	50.46	101	50.05	100	74-128	65-137	1	0-20	
1,3,5-Trimethylbenzene	50.00	52.28	105	51.05	102	77-131	68-140	2	0-20	
Vinyl Acetate	50.00	42.27	85	31.64	63	50-150	33-167	29	0-20	X
Vinyl Chloride	50.00	46.12	92	45.44	91	63-129	52-140	1	0-20	
p/m-Xylene	100.0	104.5	104	102.2	102	80-122	73-129	2	0-20	
o-Xylene	50.00	52.57	105	51.79	104	80-128	72-136	1	0-20	

Total number of LCS compounds: 65
Total number of ME compounds: 0
Total number of ME compounds allowed: 3
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-02-0837 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8260B	EPA 5030C	1191	GC/MS FFF	2
EPA 8270C (M) SIM Isotope Dil	EPA 3510C	1117	GC/MS DDD	1

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Glossary of Terms and Qualifiers

Work Order: 19-02-0837 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

19-02-0837

Date: 2/12/19
Page 1 of 1

PROJECT: Raytheon Main

TASK NO.: 532.30

Project Manager Steve Netto
QA Manager Tyler Evans
Phone 858.455.6500
Fax 858.455.6533

Sampled By: A. DONNELLY, C. DIAZ, R. SANCHEZ

SAMPLE COLLECTION

LAB ID	SAMPLE ID	Date	Time	MATRIX: Groundwater	MATRIX: Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	PRESERVATION: Ice	CONTAINERS: 40-ml VOA	CONTAINERS: 500mL Amber	CONTAINERS: 1L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	ANALYSIS REQUESTED: 1,4 Dioxane 8270 SIM	ANALYSIS REQUESTED: 1,4-Dioxane 8270 MOD	Expected Concetration Range (ppb) for VOA's: 0 - 10	10- 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 hr TAT	Standard TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1	TB-021219B	2/12/19	0905		X	X	X	3			X			X						X			Report J Flags
2	MW-30B	↓	0915	X		X	X	3			X					X				X			
	↓	↓	↓	X			X			1		X								X			

Total number of containers per analysis:

Total No. of Containers: ___

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
A Donnelly / H+A	2/12/19 1500	Jeff Chandler DCS/ECI	2/12/18 1700
Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
Jeff Chandler DCS/ECI	2/12/18 1730	[signature] EC	2/12/19 730

- ☐ No. of containers correct
- ☐ Received in good condition
- ☐ Custody seals secure
- ☐ Conforms to COC document

_____ Temperature on receipt

Laboratory
Eurofins Calscience, Inc.
Attn: Virendra Patel
7440 Lincoln Way
Garden Grove, CA 92891
714-895-5494

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.5400
snetto@hargis.com

Instructions

1. Fill out form completely and sign only after verified for completeness
2. Complete in ballpoint pen. Draw one line through error, initial and date correction
3. Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

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WORK ORDER NUMBER: 19-02-0837

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Hargis

DATE: 02/12/2019

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2.2 °C (w/ CF): 1.7 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 1091

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1091

Sample(s) ☑ Present and Intact (G1) A ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SMA

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (3) (Trip Blank Lot Number: 1911271)

Aqueous: ☐ VOA ☑ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☑ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: SMP

Reviewed by: 1091

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ADVANCED TECHNOLOGY LABORATORIES

February 20, 2019

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

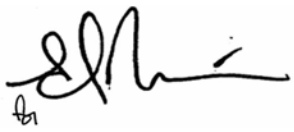
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1900580
Client Reference : Raytheon Main, 532.30

Enclosed are the results for sample(s) received on February 12, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/20/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-021219A	1900580-01	Lab prepared water	2/12/19 8:00	2/12/19 17:00
MW-26C	1900580-02	Groundwater	2/12/19 10:00	2/12/19 17:00
MW-34A	1900580-03	Groundwater	2/12/19 15:54	2/12/19 17:00
MW-30A	1900580-04	Groundwater	2/12/19 8:35	2/12/19 17:00
MW-30B	1900580-05	Groundwater	2/12/19 9:15	2/12/19 17:00
MW-3000B	1900580-06	Groundwater	2/12/19 9:16	2/12/19 17:00
MW-36-1.5SV	1900580-07	Groundwater	2/12/19 12:50	2/12/19 17:00
MW-36	1900580-08	Groundwater	2/12/19 13:25	2/12/19 17:00
MW-39	1900580-09	Groundwater	2/12/19 15:05	2/12/19 17:00
MW-28	1900580-10	Groundwater	2/12/19 10:05	2/12/19 17:00

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/20/2019

Client Sample ID TB-021219A

Lab ID: 1900580-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,1,1-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,1,2-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,1-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,1-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,1-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,2,3-Trichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,2-Dibromoethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,2-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,2-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,3-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,3-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
1,4-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
2,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
2-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
4-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
4-Isopropyltoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Benzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Bromobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Bromodichloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Bromoform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Bromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Carbon tetrachloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Chlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Chloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Chloroform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Chloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Dibromochloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/20/2019

Client Sample ID TB-021219A

Lab ID: 1900580-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Dichlorodifluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Ethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Hexachlorobutadiene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Isopropylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
m,p-Xylene	ND	1.0	1	B9B0335	02/14/2019	02/14/19 15:15	
Methylene chloride	ND	1.0	1	B9B0335	02/14/2019	02/14/19 15:15	
n-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
n-Propylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Naphthalene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
o-Xylene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
sec-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Styrene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
tert-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Tetrachloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Toluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Trichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Trichlorofluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Vinyl chloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 15:15	
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*57 - 152*		B9B0335	02/14/2019	*02/14/19 15:15*	
Surrogate: 4-Bromofluorobenzene	*104 %*	*62 - 134*		B9B0335	02/14/2019	*02/14/19 15:15*	
Surrogate: Dibromofluoromethane	*109 %*	*56 - 167*		B9B0335	02/14/2019	*02/14/19 15:15*	
Surrogate: Toluene-d8	*104 %*	*33 - 170*		B9B0335	02/14/2019	*02/14/19 15:15*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/20/2019

Client Sample ID MW-26C

Lab ID: 1900580-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,1,1-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,1,2-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,1-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,1-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,1-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,2,3-Trichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,2-Dibromoethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,2-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,2-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,3-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,3-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
1,4-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
2,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
2-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
4-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
4-Isopropyltoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Benzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Bromobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Bromodichloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Bromoform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Bromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Carbon tetrachloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Chlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Chloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Chloroform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Chloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Dibromochloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	

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Client Sample ID MW-26C

Lab ID: 1900580-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Dichlorodifluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Ethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Hexachlorobutadiene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Isopropylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
m,p-Xylene	ND	1.0	1	B9B0335	02/14/2019	02/14/19 17:41	
Methylene chloride	ND	1.0	1	B9B0335	02/14/2019	02/14/19 17:41	
n-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
n-Propylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Naphthalene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
o-Xylene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
sec-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Styrene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
tert-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Tetrachloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Toluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Trichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Trichlorofluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Vinyl chloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 17:41	
Surrogate: 1,2-Dichloroethane-d4	*102 %*	*57 - 152*		B9B0335	02/14/2019	*02/14/19 17:41*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*		B9B0335	02/14/2019	*02/14/19 17:41*	
Surrogate: Dibromofluoromethane	*94.6 %*	*56 - 167*		B9B0335	02/14/2019	*02/14/19 17:41*	
Surrogate: Toluene-d8	*114 %*	*33 - 170*		B9B0335	02/14/2019	*02/14/19 17:41*	

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San Diego , CA 92122	Reported : 02/20/2019

Client Sample ID MW-26C

Lab ID: 1900580-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0372	02/15/2019	02/15/19 15:24	
Surrogate: 1,2-Dichlorobenzene-d4	*71.2 %*		*22 - 117*		B9B0372	02/15/2019	*02/15/19 15:24*	
Surrogate: 2-Fluorobiphenyl	*60.5 %*		*20 - 131*		B9B0372	02/15/2019	*02/15/19 15:24*	
Surrogate: 4-Terphenyl-d14	*63.1 %*		*24 - 135*		B9B0372	02/15/2019	*02/15/19 15:24*	
Surrogate: Nitrobenzene-d5	*110 %*		*6 - 124*		B9B0372	02/15/2019	*02/15/19 15:24*	

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San Diego , CA 92122	Reported : 02/20/2019

Client Sample ID MW-34A

Lab ID: 1900580-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,1,1-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,1,2-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,1-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,1-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,1-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,2,3-Trichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,2-Dibromoethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,2-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,2-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,3-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,3-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
1,4-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
2,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
2-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
4-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
4-Isopropyltoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Benzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Bromobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Bromodichloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Bromoform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Bromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Carbon tetrachloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Chlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Chloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Chloroform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Chloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Dibromochloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	

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Client Sample ID MW-34A

Lab ID: 1900580-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Dichlorodifluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Ethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Hexachlorobutadiene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Isopropylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
m,p-Xylene	ND	1.0	1	B9B0335	02/14/2019	02/14/19 18:05	
Methylene chloride	ND	1.0	1	B9B0335	02/14/2019	02/14/19 18:05	
n-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
n-Propylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Naphthalene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
o-Xylene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
sec-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Styrene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
tert-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Tetrachloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Toluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Trichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Trichlorofluoromethane	**0.96**	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Vinyl chloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:05	
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*57 - 152*		B9B0335	02/14/2019	*02/14/19 18:05*	
Surrogate: 4-Bromofluorobenzene	*105 %*	*62 - 134*		B9B0335	02/14/2019	*02/14/19 18:05*	
Surrogate: Dibromofluoromethane	*103 %*	*56 - 167*		B9B0335	02/14/2019	*02/14/19 18:05*	
Surrogate: Toluene-d8	*110 %*	*33 - 170*		B9B0335	02/14/2019	*02/14/19 18:05*	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID MW-34A

Lab ID: 1900580-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0372	02/15/2019	02/15/19 15:51	
Surrogate: 1,2-Dichlorobenzene-d4	*70.2 %*		*22 - 117*		B9B0372	02/15/2019	*02/15/19 15:51*	
Surrogate: 2-Fluorobiphenyl	*60.0 %*		*20 - 131*		B9B0372	02/15/2019	*02/15/19 15:51*	
Surrogate: 4-Terphenyl-d14	*59.5 %*		*24 - 135*		B9B0372	02/15/2019	*02/15/19 15:51*	
Surrogate: Nitrobenzene-d5	*103 %*		*6 - 124*		B9B0372	02/15/2019	*02/15/19 15:51*	

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Client Sample ID MW-30A

Lab ID: 1900580-04

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,1,1-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,1,2-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,1-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,1-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,1-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,2,3-Trichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,2-Dibromoethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,2-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,2-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,3-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,3-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
1,4-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
2,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
2-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
4-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
4-Isopropyltoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Benzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Bromobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Bromodichloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Bromoform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Bromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Carbon tetrachloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Chlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Chloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Chloroform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Chloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Dibromochloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID MW-30A

Lab ID: 1900580-04

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Dichlorodifluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Ethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Hexachlorobutadiene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Isopropylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
m,p-Xylene	ND	1.0	1	B9B0335	02/14/2019	02/14/19 18:30	
Methylene chloride	ND	1.0	1	B9B0335	02/14/2019	02/14/19 18:30	
n-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
n-Propylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Naphthalene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
o-Xylene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
sec-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Styrene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
tert-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Tetrachloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Toluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Trichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Trichlorofluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Vinyl chloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:30	
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*57 - 152*		B9B0335	02/14/2019	*02/14/19 18:30*	
Surrogate: 4-Bromofluorobenzene	*106 %*	*62 - 134*		B9B0335	02/14/2019	*02/14/19 18:30*	
Surrogate: Dibromofluoromethane	*103 %*	*56 - 167*		B9B0335	02/14/2019	*02/14/19 18:30*	
Surrogate: Toluene-d8	*108 %*	*33 - 170*		B9B0335	02/14/2019	*02/14/19 18:30*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/20/2019

Client Sample ID MW-30A

Lab ID: 1900580-04

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0372	02/15/2019	02/15/19 16:17	
Surrogate: 1,2-Dichlorobenzene-d4	*74.1 %*		*22 - 117*		B9B0372	02/15/2019	*02/15/19 16:17*	
Surrogate: 2-Fluorobiphenyl	*64.8 %*		*20 - 131*		B9B0372	02/15/2019	*02/15/19 16:17*	
Surrogate: 4-Terphenyl-d14	*66.5 %*		*24 - 135*		B9B0372	02/15/2019	*02/15/19 16:17*	
Surrogate: Nitrobenzene-d5	*111 %*		*6 - 124*		B9B0372	02/15/2019	*02/15/19 16:17*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/20/2019

Client Sample ID MW-30B

Lab ID: 1900580-05

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,1,1-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,1,2-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,1-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,1-Dichloroethene	**18**	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,1-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,2,3-Trichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,2-Dibromoethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,2-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,2-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,3-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,3-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
1,4-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
2,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
2-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
4-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
4-Isopropyltoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Benzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Bromobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Bromodichloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Bromoform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Bromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Carbon tetrachloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Chlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Chloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Chloroform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Chloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
cis-1,2-Dichloroethene	**4.5**	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Dibromochloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	

Certificate of Analysis

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San Diego , CA 92122	Reported : 02/20/2019

Client Sample ID MW-30B

Lab ID: 1900580-05

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Dichlorodifluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Ethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Hexachlorobutadiene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Isopropylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
m,p-Xylene	ND	1.0	1	B9B0335	02/14/2019	02/14/19 20:31	
Methylene chloride	ND	1.0	1	B9B0335	02/14/2019	02/14/19 20:31	
n-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
n-Propylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Naphthalene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
o-Xylene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
sec-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Styrene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
tert-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Tetrachloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Toluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Trichloroethene	**82**	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Trichlorofluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Vinyl chloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:31	
Surrogate: 1,2-Dichloroethane-d4	*101 %*	*57 - 152*		B9B0335	02/14/2019	*02/14/19 20:31*	
Surrogate: 4-Bromofluorobenzene	*108 %*	*62 - 134*		B9B0335	02/14/2019	*02/14/19 20:31*	
Surrogate: Dibromofluoromethane	*96.2 %*	*56 - 167*		B9B0335	02/14/2019	*02/14/19 20:31*	
Surrogate: Toluene-d8	*104 %*	*33 - 170*		B9B0335	02/14/2019	*02/14/19 20:31*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/20/2019

Client Sample ID MW-30B

Lab ID: 1900580-05

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**0.60**	0.20	1	B9B0372	02/15/2019	02/15/19 16:44	
Surrogate: 1,2-Dichlorobenzene-d4	*66.8 %*		*22 - 117*		B9B0372	02/15/2019	*02/15/19 16:44*	
Surrogate: 2-Fluorobiphenyl	*57.2 %*		*20 - 131*		B9B0372	02/15/2019	*02/15/19 16:44*	
Surrogate: 4-Terphenyl-d14	*62.5 %*		*24 - 135*		B9B0372	02/15/2019	*02/15/19 16:44*	
Surrogate: Nitrobenzene-d5	*104 %*		*6 - 124*		B9B0372	02/15/2019	*02/15/19 16:44*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/20/2019

Client Sample ID MW-3000B

Lab ID: 1900580-06

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,1,1-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,1,2-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,1-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,1-Dichloroethene	**17**	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,1-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,2,3-Trichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,2-Dibromoethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,2-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,2-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,3-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,3-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
1,4-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
2,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
2-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
4-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
4-Isopropyltoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Benzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Bromobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Bromodichloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Bromoform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Bromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Carbon tetrachloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Chlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Chloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Chloroform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Chloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
cis-1,2-Dichloroethene	**4.3**	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Dibromochloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/20/2019

Client Sample ID MW-3000B

Lab ID: 1900580-06

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Dichlorodifluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Ethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Hexachlorobutadiene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Isopropylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
m,p-Xylene	ND	1.0	1	B9B0335	02/14/2019	02/14/19 20:55	
Methylene chloride	ND	1.0	1	B9B0335	02/14/2019	02/14/19 20:55	
n-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
n-Propylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Naphthalene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
o-Xylene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
sec-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Styrene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
tert-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Tetrachloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Toluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Trichloroethene	**79**	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Trichlorofluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Vinyl chloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:55	
Surrogate: 1,2-Dichloroethane-d4	*99.1 %*	*57 - 152*		B9B0335	02/14/2019	*02/14/19 20:55*	
Surrogate: 4-Bromofluorobenzene	*106 %*	*62 - 134*		B9B0335	02/14/2019	*02/14/19 20:55*	
Surrogate: Dibromofluoromethane	*93.2 %*	*56 - 167*		B9B0335	02/14/2019	*02/14/19 20:55*	
Surrogate: Toluene-d8	*104 %*	*33 - 170*		B9B0335	02/14/2019	*02/14/19 20:55*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID MW-3000B

Lab ID: 1900580-06

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**0.51**	0.20	1	B9B0372	02/15/2019	02/15/19 17:10	
Surrogate: 1,2-Dichlorobenzene-d4	*67.4 %*		*22 - 117*		B9B0372	02/15/2019	*02/15/19 17:10*	
Surrogate: 2-Fluorobiphenyl	*56.7 %*		*20 - 131*		B9B0372	02/15/2019	*02/15/19 17:10*	
Surrogate: 4-Terphenyl-d14	*61.5 %*		*24 - 135*		B9B0372	02/15/2019	*02/15/19 17:10*	
Surrogate: Nitrobenzene-d5	*101 %*		*6 - 124*		B9B0372	02/15/2019	*02/15/19 17:10*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/20/2019

Client Sample ID MW-36-1.5SV

Lab ID: 1900580-07

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,1,1-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,1,2-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,1-Dichloroethane	**0.92**	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,1-Dichloroethene	**86**	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,1-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,2,3-Trichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,2-Dibromoethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,2-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,2-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,3-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,3-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
1,4-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
2,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
2-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
4-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
4-Isopropyltoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Benzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Bromobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Bromodichloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Bromoform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Bromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Carbon tetrachloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Chlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Chloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Chloroform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Chloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Dibromochloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
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San Diego , CA 92122	Reported : 02/20/2019

Client Sample ID MW-36-1.5SV

Lab ID: 1900580-07

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Dichlorodifluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Ethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Hexachlorobutadiene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Isopropylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
m,p-Xylene	ND	1.0	1	B9B0335	02/14/2019	02/14/19 18:54	
Methylene chloride	ND	1.0	1	B9B0335	02/14/2019	02/14/19 18:54	
n-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
n-Propylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Naphthalene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
o-Xylene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
sec-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Styrene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
tert-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Tetrachloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Toluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Trichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Trichlorofluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Vinyl chloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 18:54	
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*57 - 152*		B9B0335	02/14/2019	*02/14/19 18:54*	
Surrogate: 4-Bromofluorobenzene	*106 %*	*62 - 134*		B9B0335	02/14/2019	*02/14/19 18:54*	
Surrogate: Dibromofluoromethane	*103 %*	*56 - 167*		B9B0335	02/14/2019	*02/14/19 18:54*	
Surrogate: Toluene-d8	*110 %*	*33 - 170*		B9B0335	02/14/2019	*02/14/19 18:54*	

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Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/20/2019

Client Sample ID MW-36-1.5SV

Lab ID: 1900580-07

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**3.9**	2.0	1	B9B0417	02/18/2019	02/19/19 14:15	
Surrogate: 1,2-Dichlorobenzene-d4	*61.7 %*		*34 - 188*		B9B0417	02/18/2019	*02/19/19 14:15*	
Surrogate: 2-Fluorobiphenyl	*73.7 %*		*39 - 108*		B9B0417	02/18/2019	*02/19/19 14:15*	
Surrogate: 4-Terphenyl-d14	*108 %*		*71 - 131*		B9B0417	02/18/2019	*02/19/19 14:15*	
Surrogate: Nitrobenzene-d5	*68.2 %*		*32 - 106*		B9B0417	02/18/2019	*02/19/19 14:15*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
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Client Sample ID MW-36

Lab ID: 1900580-08

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,1,1-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,1,2-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,1-Dichloroethane	**0.89**	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,1-Dichloroethene	**85**	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,1-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,2,3-Trichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,2-Dibromoethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,2-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,2-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,3-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,3-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
1,4-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
2,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
2-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
4-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
4-Isopropyltoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Benzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Bromobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Bromodichloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Bromoform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Bromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Carbon tetrachloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Chlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Chloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Chloroform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Chloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Dibromochloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	

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Client Sample ID MW-36

Lab ID: 1900580-08

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Dichlorodifluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Ethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Hexachlorobutadiene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Isopropylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
m,p-Xylene	ND	1.0	1	B9B0335	02/14/2019	02/14/19 19:18	
Methylene chloride	ND	1.0	1	B9B0335	02/14/2019	02/14/19 19:18	
n-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
n-Propylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Naphthalene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
o-Xylene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
sec-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Styrene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
tert-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Tetrachloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Toluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Trichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Trichlorofluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Vinyl chloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:18	
Surrogate: 1,2-Dichloroethane-d4	*117 %*	*57 - 152*		B9B0335	02/14/2019	*02/14/19 19:18*	
Surrogate: 4-Bromofluorobenzene	*103 %*	*62 - 134*		B9B0335	02/14/2019	*02/14/19 19:18*	
Surrogate: Dibromofluoromethane	*111 %*	*56 - 167*		B9B0335	02/14/2019	*02/14/19 19:18*	
Surrogate: Toluene-d8	*104 %*	*33 - 170*		B9B0335	02/14/2019	*02/14/19 19:18*	

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Client Sample ID MW-36

Lab ID: 1900580-08

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**3.0**	2.0	1	B9B0417	02/18/2019	02/19/19 14:41	
Surrogate: 1,2-Dichlorobenzene-d4	*59.6 %*		*34 - 188*		B9B0417	02/18/2019	*02/19/19 14:41*	
Surrogate: 2-Fluorobiphenyl	*68.1 %*		*39 - 108*		B9B0417	02/18/2019	*02/19/19 14:41*	
Surrogate: 4-Terphenyl-d14	*109 %*		*71 - 131*		B9B0417	02/18/2019	*02/19/19 14:41*	
Surrogate: Nitrobenzene-d5	*65.8 %*		*32 - 106*		B9B0417	02/18/2019	*02/19/19 14:41*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
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Client Sample ID MW-39

Lab ID: 1900580-09

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,1,1-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,1,2-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,1-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,1-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,1-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,2,3-Trichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,2-Dibromoethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,2-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,2-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,3-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,3-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
1,4-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
2,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
2-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
4-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
4-Isopropyltoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Benzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Bromobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Bromodichloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Bromoform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Bromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Carbon tetrachloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Chlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Chloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Chloroform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Chloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Dibromochloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	

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Lab ID: 1900580-09

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Dichlorodifluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Ethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Hexachlorobutadiene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Isopropylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
m,p-Xylene	ND	1.0	1	B9B0335	02/14/2019	02/14/19 19:42	
Methylene chloride	ND	1.0	1	B9B0335	02/14/2019	02/14/19 19:42	
n-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
n-Propylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Naphthalene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
o-Xylene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
sec-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Styrene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
tert-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Tetrachloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Toluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Trichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Trichlorofluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Vinyl chloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 19:42	
Surrogate: 1,2-Dichloroethane-d4	*99.4 %*	*57 - 152*		B9B0335	02/14/2019	*02/14/19 19:42*	
Surrogate: 4-Bromofluorobenzene	*107 %*	*62 - 134*		B9B0335	02/14/2019	*02/14/19 19:42*	
Surrogate: Dibromofluoromethane	*92.0 %*	*56 - 167*		B9B0335	02/14/2019	*02/14/19 19:42*	
Surrogate: Toluene-d8	*112 %*	*33 - 170*		B9B0335	02/14/2019	*02/14/19 19:42*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID MW-39

Lab ID: 1900580-09

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0372	02/15/2019	02/15/19 17:37	
Surrogate: 1,2-Dichlorobenzene-d4	*62.0 %*		*22 - 117*		B9B0372	02/15/2019	*02/15/19 17:37*	
Surrogate: 2-Fluorobiphenyl	*53.9 %*		*20 - 131*		B9B0372	02/15/2019	*02/15/19 17:37*	
Surrogate: 4-Terphenyl-d14	*56.6 %*		*24 - 135*		B9B0372	02/15/2019	*02/15/19 17:37*	
Surrogate: Nitrobenzene-d5	*91.2 %*		*6 - 124*		B9B0372	02/15/2019	*02/15/19 17:37*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/20/2019

Client Sample ID MW-28

Lab ID: 1900580-10

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,1,1-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,1,2-Trichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,1-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,1-Dichloroethene	**0.71**	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,1-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,2,3-Trichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,2-Dibromoethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,2-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,2-Dichloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,3-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,3-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
1,4-Dichlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
2,2-Dichloropropane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
2-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
4-Chlorotoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
4-Isopropyltoluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Benzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Bromobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Bromodichloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Bromoform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Bromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Carbon tetrachloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Chlorobenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Chloroethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Chloroform	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Chloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Dibromochloromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
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Client Sample ID MW-28

Lab ID: 1900580-10

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Dichlorodifluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Ethylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Hexachlorobutadiene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Isopropylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
m,p-Xylene	ND	1.0	1	B9B0335	02/14/2019	02/14/19 20:07	
Methylene chloride	ND	1.0	1	B9B0335	02/14/2019	02/14/19 20:07	
n-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
n-Propylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Naphthalene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
o-Xylene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
sec-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Styrene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
tert-Butylbenzene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Tetrachloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Toluene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Trichloroethene	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Trichlorofluoromethane	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Vinyl chloride	ND	0.50	1	B9B0335	02/14/2019	02/14/19 20:07	
Surrogate: 1,2-Dichloroethane-d4	*116 %*	*57 - 152*		B9B0335	02/14/2019	*02/14/19 20:07*	
Surrogate: 4-Bromofluorobenzene	*104 %*	*62 - 134*		B9B0335	02/14/2019	*02/14/19 20:07*	
Surrogate: Dibromofluoromethane	*110 %*	*56 - 167*		B9B0335	02/14/2019	*02/14/19 20:07*	
Surrogate: Toluene-d8	*106 %*	*33 - 170*		B9B0335	02/14/2019	*02/14/19 20:07*	

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Client Sample ID MW-28

Lab ID: 1900580-10

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0372	02/15/2019	02/15/19 18:03	
Surrogate: 1,2-Dichlorobenzene-d4	*71.7 %*		*22 - 117*		B9B0372	02/15/2019	*02/15/19 18:03*	
Surrogate: 2-Fluorobiphenyl	*63.0 %*		*20 - 131*		B9B0372	02/15/2019	*02/15/19 18:03*	
Surrogate: 4-Terphenyl-d14	*66.3 %*		*24 - 135*		B9B0372	02/15/2019	*02/15/19 18:03*	
Surrogate: Nitrobenzene-d5	*107 %*		*6 - 124*		B9B0372	02/15/2019	*02/15/19 18:03*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
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QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0335 - MSVOA_W										
Blank (B9B0335-BLK1)					Prepared: 2/14/2019 Analyzed: 2/14/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0335 - MSVOA_W (continued)										
Blank (B9B0335-BLK1) - Continued					Prepared: 2/14/2019 Analyzed: 2/14/2019					
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*28.30*			*25.0000*		*113*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*25.46*			*25.0000*		*102*	*62 - 134*			
Surrogate: Dibromofluoromethan	*27.71*			*25.0000*		*111*	*56 - 167*			
Surrogate: Toluene-d8	*25.45*			*25.0000*		*102*	*33 - 170*			
LCS (B9B0335-BS1)					Prepared: 2/14/2019 Analyzed: 2/14/2019					
1,1,1,2-Tetrachloroethane	20.2200	0.50	0.11	20.0000		101	80 - 137			
1,1,1-Trichloroethane	20.0900	0.50	0.18	20.0000		100	75 - 148			
1,1,2,2-Tetrachloroethane	17.0600	0.50	0.17	20.0000		85.3	64 - 118			
1,1,2-Trichloroethane	19.4000	0.50	0.12	20.0000		97.0	77 - 113			
1,1-Dichloroethane	22.5600	0.50	0.16	20.0000		113	72 - 131			
1,1-Dichloroethene	22.5700	0.50	0.09	20.0000		113	75 - 132			
1,1-Dichloropropene	21.2200	0.50	0.21	20.0000		106	84 - 141			
1,2,3-Trichloropropane	17.3900	0.50	0.16	20.0000		87.0	65 - 111			
1,2,3-Trichlorobenzene	18.8200	0.50	0.12	20.0000		94.1	79 - 117			
1,2,4-Trichlorobenzene	19.6400	0.50	0.12	20.0000		98.2	78 - 121			
1,2,4-Trimethylbenzene	20.9600	0.50	0.08	20.0000		105	83 - 125			
1,2-Dibromo-3-chloropropane	17.7700	0.50	0.24	20.0000		88.8	54 - 116			
1,2-Dibromoethane	18.9400	0.50	0.11	20.0000		94.7	79 - 118			
1,2-Dichlorobenzene	19.8200	0.50	0.09	20.0000		99.1	82 - 115			
1,2-Dichloroethane	19.8600	0.50	0.19	20.0000		99.3	76 - 115			
1,2-Dichloropropane	19.1700	0.50	0.36	20.0000		95.8	74 - 113			
1,3,5-Trimethylbenzene	21.4100	0.50	0.05	20.0000		107	83 - 126			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0335 - MSVOA_W (continued)										
LCS (B9B0335-BS1) - Continued					Prepared: 2/14/2019 Analyzed: 2/14/2019					
1,3-Dichlorobenzene	19.8900	0.50	0.10	20.0000		99.4	84 - 118			
1,3-Dichloropropane	18.4200	0.50	0.07	20.0000		92.1	72 - 116			
1,4-Dichlorobenzene	19.6700	0.50	0.07	20.0000		98.4	83 - 112			
2,2-Dichloropropane	22.1200	0.50	0.16	20.0000		111	72 - 150			
2-Chlorotoluene	19.9800	0.50	0.08	20.0000		99.9	82 - 120			
4-Chlorotoluene	20.2500	0.50	0.08	20.0000		101	81 - 121			
4-Isopropyltoluene	21.6000	0.50	0.06	20.0000		108	86 - 124			
Benzene	39.2000	0.50	0.03	40.0000		98.0	81 - 118			
Bromobenzene	18.8000	0.50	0.09	20.0000		94.0	82 - 117			
Bromodichloromethane	19.0700	0.50	0.14	20.0000		95.4	80 - 122			
Bromoform	19.3100	0.50	0.13	20.0000		96.6	53 - 145			
Bromomethane	12.7200	0.50	0.42	20.0000		63.6	30 - 204			
Carbon tetrachloride	20.8600	0.50	0.19	20.0000		104	77 - 157			
Chlorobenzene	19.3400	0.50	0.07	20.0000		96.7	86 - 113			
Chloroethane	20.7300	0.50	0.40	20.0000		104	70 - 160			
Chloroform	21.6000	0.50	0.17	20.0000		108	66 - 136			
Chloromethane	15.2600	0.50	0.08	20.0000		76.3	52 - 138			
cis-1,2-Dichloroethene	21.8500	0.50	0.13	20.0000		109	71 - 128			
cis-1,3-Dichloropropene	22.5400	0.50	0.05	20.0000		113	71 - 123			
Dibromochloromethane	19.4800	0.50	0.14	20.0000		97.4	78 - 140			
Dibromomethane	19.7900	0.50	0.10	20.0000		99.0	78 - 109			
Dichlorodifluoromethane	18.5300	0.50	0.10	20.0000		92.6	64 - 144			
Ethylbenzene	40.0300	0.50	0.07	40.0000		100	90 - 116			
Hexachlorobutadiene	21.4700	0.50	0.14	20.0000		107	81 - 129			
Isopropylbenzene	21.5800	0.50	0.05	20.0000		108	83 - 129			
m,p-Xylene	43.3500	1.0	0.08	40.0000		108	88 - 124			
Methylene chloride	19.4200	1.0	0.46	20.0000		97.1	76 - 137			
n-Butylbenzene	21.4100	0.50	0.05	20.0000		107	83 - 129			
n-Propylbenzene	20.6400	0.50	0.07	20.0000		103	85 - 124			
Naphthalene	17.6800	0.50	0.15	20.0000		88.4	67 - 113			
o-Xylene	42.8200	0.50	0.05	40.0000		107	82 - 129			
sec-Butylbenzene	21.1800	0.50	0.04	20.0000		106	86 - 127			
Styrene	21.4200	0.50	0.06	20.0000		107	83 - 122			
tert-Butylbenzene	21.1100	0.50	0.06	20.0000		106	84 - 130			
Tetrachloroethene	19.8700	0.50	0.07	20.0000		99.4	87 - 123			
Toluene	39.9900	0.50	0.07	40.0000		100	84 - 115			
trans-1,2-Dichloroethene	21.9300	0.50	0.11	20.0000		110	60 - 148			
Trichloroethene	19.6900	0.50	0.05	20.0000		98.4	79 - 129			
Trichlorofluoromethane	22.7800	0.50	0.14	20.0000		114	68 - 162			
Vinyl chloride	18.9900	0.50	0.05	20.0000		95.0	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*28.09*			*25.0000*		*112*	*57 - 152*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0335 - MSVOA_W (continued)										
LCS (B9B0335-BS1) - Continued					Prepared: 2/14/2019 Analyzed: 2/14/2019					
Surrogate: 4-Bromofluorobenzene	*26.71*			*25.0000*		*107*	*62 - 134*			
Surrogate: Dibromofluoromethan	*28.91*			*25.0000*		*116*	*56 - 167*			
Surrogate: Toluene-d8	*25.10*			*25.0000*		*100*	*33 - 170*			
LCS Dup (B9B0335-BSD1)					Prepared: 2/14/2019 Analyzed: 2/14/2019					
1,1,1,2-Tetrachloroethane	19.6500	0.50	0.11	20.0000		98.2	80 - 137	2.86	20	
1,1,1-Trichloroethane	19.4400	0.50	0.18	20.0000		97.2	75 - 148	3.29	20	
1,1,2,2-Tetrachloroethane	17.1300	0.50	0.17	20.0000		85.6	64 - 118	0.409	20	
1,1,2-Trichloroethane	19.7700	0.50	0.12	20.0000		98.8	77 - 113	1.89	20	
1,1-Dichloroethane	23.0500	0.50	0.16	20.0000		115	72 - 131	2.15	20	
1,1-Dichloroethene	23.9000	0.50	0.09	20.0000		120	75 - 132	5.72	20	
1,1-Dichloropropene	21.1800	0.50	0.21	20.0000		106	84 - 141	0.189	20	
1,2,3-Trichloropropane	17.4600	0.50	0.16	20.0000		87.3	65 - 111	0.402	20	
1,2,3-Trichlorobenzene	19.1400	0.50	0.12	20.0000		95.7	79 - 117	1.69	20	
1,2,4-Trichlorobenzene	19.9900	0.50	0.12	20.0000		100	78 - 121	1.77	20	
1,2,4-Trimethylbenzene	21.1900	0.50	0.08	20.0000		106	83 - 125	1.09	20	
1,2-Dibromo-3-chloropropane	18.1300	0.50	0.24	20.0000		90.6	54 - 116	2.01	20	
1,2-Dibromoethane	19.5700	0.50	0.11	20.0000		97.8	79 - 118	3.27	20	
1,2-Dichlorobenzene	19.9900	0.50	0.09	20.0000		100	82 - 115	0.854	20	
1,2-Dichloroethane	20.6200	0.50	0.19	20.0000		103	76 - 115	3.75	20	
1,2-Dichloropropane	19.1700	0.50	0.36	20.0000		95.8	74 - 113	0.00	20	
1,3,5-Trimethylbenzene	21.4600	0.50	0.05	20.0000		107	83 - 126	0.233	20	
1,3-Dichlorobenzene	20.1900	0.50	0.10	20.0000		101	84 - 118	1.50	20	
1,3-Dichloropropane	18.0900	0.50	0.07	20.0000		90.4	72 - 116	1.81	20	
1,4-Dichlorobenzene	20.1500	0.50	0.07	20.0000		101	83 - 112	2.41	20	
2,2-Dichloropropane	21.0000	0.50	0.16	20.0000		105	72 - 150	5.19	20	
2-Chlorotoluene	20.1900	0.50	0.08	20.0000		101	82 - 120	1.05	20	
4-Chlorotoluene	20.5200	0.50	0.08	20.0000		103	81 - 121	1.32	20	
4-Isopropyltoluene	21.8300	0.50	0.06	20.0000		109	86 - 124	1.06	20	
Benzene	39.3900	0.50	0.03	40.0000		98.5	81 - 118	0.484	20	
Bromobenzene	18.8800	0.50	0.09	20.0000		94.4	82 - 117	0.425	20	
Bromodichloromethane	19.1100	0.50	0.14	20.0000		95.6	80 - 122	0.210	20	
Bromoform	19.1100	0.50	0.13	20.0000		95.6	53 - 145	1.04	20	
Bromomethane	15.3000	0.50	0.42	20.0000		76.5	30 - 204	18.4	20	
Carbon tetrachloride	20.6200	0.50	0.19	20.0000		103	77 - 157	1.16	20	
Chlorobenzene	19.9100	0.50	0.07	20.0000		99.6	86 - 113	2.90	20	
Chloroethane	21.5700	0.50	0.40	20.0000		108	70 - 160	3.97	20	
Chloroform	21.8700	0.50	0.17	20.0000		109	66 - 136	1.24	20	
Chloromethane	16.0800	0.50	0.08	20.0000		80.4	52 - 138	5.23	20	
cis-1,2-Dichloroethene	22.0400	0.50	0.13	20.0000		110	71 - 128	0.866	20	
cis-1,3-Dichloropropene	22.2500	0.50	0.05	20.0000		111	71 - 123	1.29	20	
Dibromochloromethane	18.8100	0.50	0.14	20.0000		94.0	78 - 140	3.50	20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/20/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0335 - MSVOA_W (continued)										
LCS Dup (B9B0335-BSD1) - Continued					Prepared: 2/14/2019 Analyzed: 2/14/2019					
Dibromomethane	20.2900	0.50	0.10	20.0000		101	78 - 109	2.50	20	
Dichlorodifluoromethane	19.0700	0.50	0.10	20.0000		95.4	64 - 144	2.87	20	
Ethylbenzene	40.7600	0.50	0.07	40.0000		102	90 - 116	1.81	20	
Hexachlorobutadiene	21.4400	0.50	0.14	20.0000		107	81 - 129	0.140	20	
Isopropylbenzene	21.9400	0.50	0.05	20.0000		110	83 - 129	1.65	20	
m,p-Xylene	44.6600	1.0	0.08	40.0000		112	88 - 124	2.98	20	
Methylene chloride	20.1400	1.0	0.46	20.0000		101	76 - 137	3.64	20	
n-Butylbenzene	21.7400	0.50	0.05	20.0000		109	83 - 129	1.53	20	
n-Propylbenzene	20.9000	0.50	0.07	20.0000		104	85 - 124	1.25	20	
Naphthalene	18.0600	0.50	0.15	20.0000		90.3	67 - 113	2.13	20	
o-Xylene	44.1600	0.50	0.05	40.0000		110	82 - 129	3.08	20	
sec-Butylbenzene	21.5000	0.50	0.04	20.0000		108	86 - 127	1.50	20	
Styrene	22.1900	0.50	0.06	20.0000		111	83 - 122	3.53	20	
tert-Butylbenzene	21.3300	0.50	0.06	20.0000		107	84 - 130	1.04	20	
Tetrachloroethene	19.8900	0.50	0.07	20.0000		99.4	87 - 123	0.101	20	
Toluene	42.2100	0.50	0.07	40.0000		106	84 - 115	5.40	20	
trans-1,2-Dichloroethene	22.1000	0.50	0.11	20.0000		110	60 - 148	0.772	20	
Trichloroethene	19.5700	0.50	0.05	20.0000		97.8	79 - 129	0.611	20	
Trichlorofluoromethane	23.7700	0.50	0.14	20.0000		119	68 - 162	4.25	20	
Vinyl chloride	20.2900	0.50	0.05	20.0000		101	73 - 128	6.62	20	
Surrogate: 1,2-Dichloroethane-d4	*27.71*			*25.0000*		*111*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.56*			*25.0000*		*110*	*62 - 134*			
Surrogate: Dibromofluoromethan	*28.90*			*25.0000*		*116*	*56 - 167*			
Surrogate: Toluene-d8	*26.20*			*25.0000*		*105*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/20/2019

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0417 - MSSEMI_W										
Blank (B9B0417-BLK1)						Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	ND	2.0	0.84							
Surrogate: 1,2-Dichlorobenzene-d	*83.32*			*100.000*		*83.3*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*94.39*			*100.000*		*94.4*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*113.1*			*100.000*		*113*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*90.17*			*100.000*		*90.2*	*32 - 106*			
LCS (B9B0417-BS1)						Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	122.210	2.0	0.84	100.000		122	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*69.91*			*100.000*		*69.9*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*90.02*			*100.000*		*90.0*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*99.98*			*100.000*		*100*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*84.34*			*100.000*		*84.3*	*32 - 106*			
Matrix Spike (B9B0417-MS1)			**Source: 1900611-02**			Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	124.250	2.0	0.84	100.000	ND	124	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*71.86*			*100.000*		*71.9*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*90.51*			*100.000*		*90.5*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*110.1*			*100.000*		*110*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*86.45*			*100.000*		*86.4*	*32 - 106*			
Matrix Spike Dup (B9B0417-MSD1)			**Source: 1900611-02**			Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	126.250	2.0	0.84	100.000	ND	126	40 - 159	1.60	20	
Surrogate: 1,2-Dichlorobenzene-d	*74.99*			*100.000*		*75.0*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*94.16*			*100.000*		*94.2*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*109.7*			*100.000*		*110*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*83.90*			*100.000*		*83.9*	*32 - 106*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/20/2019

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0372 - MSSEMI_W										
Blank (B9B0372-BLK1)					Prepared: 2/15/2019 Analyzed: 2/15/2019					
1,4-Dioxane	ND	0.20	0.05							
Surrogate: 1,2-Dichlorobenzene-d	*0.7582*			*1.00000*		*75.8*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.6203*			*1.00000*		*62.0*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7506*			*1.00000*		*75.1*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.161*			*1.00000*		*116*	*6 - 124*			
LCS (B9B0372-BS1)					Prepared: 2/15/2019 Analyzed: 2/15/2019					
1,4-Dioxane	0.875380	0.20	0.05	1.00000		87.5	64 - 129			
Surrogate: 1,2-Dichlorobenzene-d	*0.6670*			*1.00000*		*66.7*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5920*			*1.00000*		*59.2*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7244*			*1.00000*		*72.4*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.077*			*1.00000*		*108*	*6 - 124*			
LCS Dup (B9B0372-BSD1)					Prepared: 2/15/2019 Analyzed: 2/15/2019					
1,4-Dioxane	0.864830	0.20	0.05	1.00000		86.5	64 - 129	1.21	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.6464*			*1.00000*		*64.6*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5747*			*1.00000*		*57.5*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7302*			*1.00000*		*73.0*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.067*			*1.00000*		*107*	*6 - 124*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/20/2019

Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 2/12/19
Page 1 of 2

PROJECT: Raytheon Main

TASK NO.: 532.30

Project Manager Steve Netto
QA Manager Tyler Evans
Phone 858.455.6500
Fax 858.455.6533

Sampled By: A. DONNELLY, C. DIAZ, R. SANCHEZ

SAMPLE COLLECTION

LAB ID	SAMPLE ID	Date	Time	MATRIX: Groundwater	MATRIX: Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	PRESERVATION: Ice	CONTAINERS: 40-ml VOA	CONTAINERS: 1 L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	ANALYSIS REQUESTED: 1,4 Dioxane 8270 SIM	ANALYSIS REQUESTED: 1,4-Dioxane 8270 MOD	Expected Concetration Range (ppb) for VOA's: 0 - 10	SPECIAL HANDLING: 24 hr TAT	SPECIAL HANDLING: 48 hr TAT	SPECIAL HANDLING: Standard TAT	SPECIAL HANDLING: Level IV Data Validation Requested	SPECIAL HANDLING: MS/MSD Requested	REMARKS
1900530-01	TB-021219A	2/12/19	0800		X	X	X	3		X			X			X			Report J Flags
-02	MW-26C	↓	1000	X		X	X	3		X			X			X			
	↓	↓	↓	X			X		1		X					X			
-03	MW-34A	↓	1554	X		X	X	3		X			X			X			
	↓	↓	↓	X			X		1		X					X			

Total number of containers per analysis:

Total No. of Containers: ___

Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
A Donnelly / H+A	2/12/19 1700	J. Arceo ATL	2/12/19 1700
J. Arceo	2/12/19 1814	FedEx	2/12/19 1814

- ✓ No. of containers correct
- ✓ Received in good condition
- ☐ Custody seals secure
- ✓ Conforms to COC document

1.8, 2.4 °C Temperature on receipt

Laboratory
ATL
Attn: Rachelle Arada
3257 Walnut Ave
Signal Hill, CA 90755
562-989-4045

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.5400
snetto@hargis.com

Instructions
1. Fill out form completely and sign only after verified for completeness
Complete in ballpoint pen. Draw one line through error, initial and date correction
Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
Note applicable preservatives, special instructions, and deviations from typical environmental samples.
Consult project QA documents for specific instructions.

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 2-12-19
Page 2 of 2

PROJECT: Raytheon Main

TASK NO.: 532.30

Project Manager Steve Netto
QA Manager Tyler Evans
Phone 858.455.6500
Fax 858.455.6533

Sampled By: DJ Kaiser + Nadia Scholl

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Groundwater	Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	Ice	CONTAINERS: 40-ml VOA	1 L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	1,4 Dioxane 8270 SIM	1,4-Dioxane 8270 MOD	Expected Concetration Range (ppb) for VOA's: 0 - 10	10- 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 hr TAT	Standard TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1900580-04	MW-30A	02-12-19	0831	X		X	X	3		X			X						X			Report J Flags
-05	MW-30B	02-12-19	0915	X		X	X	3	1	X	X				X				X			
-06	MW-3000B	02-12-19	0916	X		X	X	3	1	X	X				X				X			
-07	MW-36-1.55V	02-12-19	~~1350~~ 1250	X		X	X	3	1	X		X		X					X			
-08	MW-36	02-12-19	1325	X		X	X	3	1	X		X		X					X			
-09	MW-39	02-12-19	1505	X		X	X	3	1	X		X	X						X			
-10	MW-28	02-12-19	1005	X		X	X	3	1	X	X		X						X			

Total number of containers per analysis:

Total No. of Containers:

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
A Dailey / H+A	2/12/19 1700	Jennifer V. Arco ATL	2/12/19 1700
Jennifer V. Arco ATL	2/12/19 1814	FedEx	2/12/19 1814

- ✓ No. of containers correct
- ✓ Received in good condition
- Custody seals secure
- ✓ Conforms to COC document

1.8, 2.4 Temperature on receipt

Laboratory
ATL
Attn: Rachelle Arada
3257 Walnut Ave
Signal Hill, CA 90755
562-989-4045

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.5400
snetto@hargis.com

Instructions
1. Fill out form completely and sign only after verified for completeness
Complete in ballpoint pen. Draw one line through error, initial and date correction
Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
Note applicable preservatives, special instructions, and deviations from typical environmental samples.
Consult project QA documents for specific instructions.

ADVANCED TECHNOLOGY LABORATORIES

February 21, 2019

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

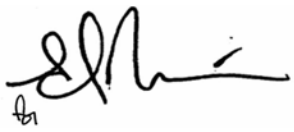
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1900597
Client Reference : Raytheon Main, 532.30

Enclosed are the results for sample(s) received on February 13, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-021319	1900597-01	Lab prepared water	2/13/19 8:00	2/13/19 17:00
MW-15	1900597-02	Groundwater	2/13/19 9:24	2/13/19 17:00
EW-01	1900597-03	Groundwater	2/13/19 12:15	2/13/19 17:00
MW-21	1900597-04	Groundwater	2/13/19 12:35	2/13/19 17:00
MW-34C	1900597-05	Groundwater	2/13/19 13:39	2/13/19 17:00
MW-34B	1900597-06	Groundwater	2/13/19 14:16	2/13/19 17:00
MW-24	1900597-07	Groundwater	2/13/19 16:00	2/13/19 17:00
MW-35C	1900597-08	Groundwater	2/13/19 9:20	2/13/19 17:00
MW-37	1900597-09	Groundwater	2/13/19 10:45	2/13/19 17:00
MW-33-1.5SV	1900597-10	Groundwater	2/13/19 13:10	2/13/19 17:00
MW-33	1900597-11	Groundwater	2/13/19 13:35	2/13/19 17:00
MW-32C	1900597-12	Groundwater	2/13/19 15:50	2/13/19 17:00

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID TB-021319

Lab ID: 1900597-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,1,1-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,1,2-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,1-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,1-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,1-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,2,3-Trichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,2-Dibromoethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,2-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,2-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,3-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,3-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
1,4-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
2,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
2-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
4-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
4-Isopropyltoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Benzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Bromobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Bromodichloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Bromoform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Bromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Carbon tetrachloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Chlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Chloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Chloroform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Chloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Dibromochloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID TB-021319

Lab ID: 1900597-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Dichlorodifluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Ethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Hexachlorobutadiene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Isopropylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
m,p-Xylene	ND	1.0	1	B9B0359	02/15/2019	02/15/19 18:38	
Methylene chloride	ND	1.0	1	B9B0359	02/15/2019	02/15/19 18:38	
n-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
n-Propylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Naphthalene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
o-Xylene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
sec-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Styrene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
tert-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Tetrachloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Toluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Trichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Trichlorofluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Vinyl chloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 18:38	
Surrogate: 1,2-Dichloroethane-d4	*93.3 %*	*57 - 152*		B9B0359	02/15/2019	*02/15/19 18:38*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*		B9B0359	02/15/2019	*02/15/19 18:38*	
Surrogate: Dibromofluoromethane	*87.5 %*	*56 - 167*		B9B0359	02/15/2019	*02/15/19 18:38*	
Surrogate: Toluene-d8	*111 %*	*33 - 170*		B9B0359	02/15/2019	*02/15/19 18:38*	

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San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-15

Lab ID: 1900597-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,1,1-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,1,2-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,1-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,1-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,1-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,2,3-Trichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,2-Dibromoethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,2-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,2-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,3-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,3-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
1,4-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
2,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
2-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
4-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
4-Isopropyltoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Benzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Bromobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Bromodichloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Bromoform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Bromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Carbon tetrachloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Chlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Chloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Chloroform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Chloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Dibromochloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	

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San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-15

Lab ID: 1900597-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Dichlorodifluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Ethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Hexachlorobutadiene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Isopropylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
m,p-Xylene	ND	1.0	1	B9B0359	02/15/2019	02/15/19 19:03	
Methylene chloride	ND	1.0	1	B9B0359	02/15/2019	02/15/19 19:03	
n-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
n-Propylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Naphthalene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
o-Xylene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
sec-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Styrene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
tert-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Tetrachloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Toluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Trichloroethene	**1.9**	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Trichlorofluoromethane	**5.9**	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Vinyl chloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:03	
Surrogate: 1,2-Dichloroethane-d4	*96.3 %*	*57 - 152*		B9B0359	02/15/2019	*02/15/19 19:03*	
Surrogate: 4-Bromofluorobenzene	*113 %*	*62 - 134*		B9B0359	02/15/2019	*02/15/19 19:03*	
Surrogate: Dibromofluoromethane	*88.8 %*	*56 - 167*		B9B0359	02/15/2019	*02/15/19 19:03*	
Surrogate: Toluene-d8	*112 %*	*33 - 170*		B9B0359	02/15/2019	*02/15/19 19:03*	

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Client Sample ID EW-01

Lab ID: 1900597-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,1,1-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,1,2-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,1-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,1-Dichloroethene	**29**	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,1-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,2,3-Trichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,2-Dibromoethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,2-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,2-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,3-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,3-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
1,4-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
2,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
2-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
4-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
4-Isopropyltoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Benzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Bromobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Bromodichloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Bromoform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Bromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Carbon tetrachloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Chlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Chloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Chloroform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Chloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Dibromochloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	

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Client Sample ID EW-01

Lab ID: 1900597-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Dichlorodifluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Ethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Hexachlorobutadiene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Isopropylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
m,p-Xylene	ND	1.0	1	B9B0359	02/15/2019	02/15/19 21:05	
Methylene chloride	ND	1.0	1	B9B0359	02/15/2019	02/15/19 21:05	
n-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
n-Propylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Naphthalene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
o-Xylene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
sec-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Styrene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
tert-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Tetrachloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Toluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Trichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Trichlorofluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Vinyl chloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 21:05	
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*57 - 152*		B9B0359	02/15/2019	*02/15/19 21:05*	
Surrogate: 4-Bromofluorobenzene	*110 %*	*62 - 134*		B9B0359	02/15/2019	*02/15/19 21:05*	
Surrogate: Dibromofluoromethane	*92.8 %*	*56 - 167*		B9B0359	02/15/2019	*02/15/19 21:05*	
Surrogate: Toluene-d8	*112 %*	*33 - 170*		B9B0359	02/15/2019	*02/15/19 21:05*	

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9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID EW-01

Lab ID: 1900597-03

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**17**	2.0	1	B9B0417	02/18/2019	02/19/19 19:37	
Surrogate: 1,2-Dichlorobenzene-d4	*50.4 %*		*34 - 188*		B9B0417	02/18/2019	*02/19/19 19:37*	
Surrogate: 2-Fluorobiphenyl	*60.0 %*		*39 - 108*		B9B0417	02/18/2019	*02/19/19 19:37*	
Surrogate: 4-Terphenyl-d14	*105 %*		*71 - 131*		B9B0417	02/18/2019	*02/19/19 19:37*	
Surrogate: Nitrobenzene-d5	*53.5 %*		*32 - 106*		B9B0417	02/18/2019	*02/19/19 19:37*	

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Client Sample ID MW-21

Lab ID: 1900597-04

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,1,1-Trichloroethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,1,2,2-Tetrachloroethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,1,2-Trichloroethane	**8.8**	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,1-Dichloroethane	**16**	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,1-Dichloroethene	**840**	10	20	B9B0391	02/18/2019	02/18/19 18:11	
1,1-Dichloropropene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,2,3-Trichloropropane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,2,3-Trichlorobenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,2,4-Trichlorobenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,2,4-Trimethylbenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,2-Dibromo-3-chloropropane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,2-Dibromoethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,2-Dichlorobenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,2-Dichloroethane	**3.3**	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,2-Dichloropropane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,3,5-Trimethylbenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,3-Dichlorobenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,3-Dichloropropane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
1,4-Dichlorobenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
2,2-Dichloropropane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
2-Chlorotoluene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
4-Chlorotoluene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
4-Isopropyltoluene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Benzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Bromobenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Bromodichloromethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Bromoform	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Bromomethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Carbon tetrachloride	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Chlorobenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Chloroethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Chloroform	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Chloromethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
cis-1,2-Dichloroethene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
cis-1,3-Dichloropropene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Dibromochloromethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-21

Lab ID: 1900597-04

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Dichlorodifluoromethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Ethylbenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Hexachlorobutadiene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Isopropylbenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
m,p-Xylene	ND	5.0	5	B9B0391	02/18/2019	02/18/19 18:35	
Methylene chloride	ND	5.0	5	B9B0391	02/18/2019	02/18/19 18:35	
n-Butylbenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
n-Propylbenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Naphthalene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
o-Xylene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
sec-Butylbenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Styrene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
tert-Butylbenzene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Tetrachloroethene	**3.0**	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Toluene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
trans-1,2-Dichloroethene	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Trichloroethene	**12**	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Trichlorofluoromethane	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Vinyl chloride	ND	2.5	5	B9B0391	02/18/2019	02/18/19 18:35	
Surrogate: 1,2-Dichloroethane-d4	*90.0 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 18:11*	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 18:35*	
Surrogate: 4-Bromofluorobenzene	*106 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 18:11*	
Surrogate: 4-Bromofluorobenzene	*107 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 18:35*	
Surrogate: Dibromofluoromethane	*96.5 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 18:35*	
Surrogate: Dibromofluoromethane	*89.8 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 18:11*	
Surrogate: Toluene-d8	*111 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 18:11*	
Surrogate: Toluene-d8	*108 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 18:35*	

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Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID MW-21

Lab ID: 1900597-04

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**670**	4.0	2	B9B0417	02/18/2019	02/20/19 13:17	
Surrogate: 1,2-Dichlorobenzene-d4	*67.7 %*		*34 - 188*		B9B0417	02/18/2019	*02/20/19 13:17*	
Surrogate: 2-Fluorobiphenyl	*74.3 %*		*39 - 108*		B9B0417	02/18/2019	*02/20/19 13:17*	
Surrogate: 4-Terphenyl-d14	*103 %*		*71 - 131*		B9B0417	02/18/2019	*02/20/19 13:17*	
Surrogate: Nitrobenzene-d5	*70.8 %*		*32 - 106*		B9B0417	02/18/2019	*02/20/19 13:17*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-34C

Lab ID: 1900597-05

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,1,1-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,1,2-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,1-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,1-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,1-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,2,3-Trichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,2-Dibromoethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,2-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,2-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,3-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,3-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
1,4-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
2,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
2-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
4-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
4-Isopropyltoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Benzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Bromobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Bromodichloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Bromoform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Bromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Carbon tetrachloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Chlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Chloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Chloroform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Chloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Dibromochloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	

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Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID MW-34C

Lab ID: 1900597-05

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Dichlorodifluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Ethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Hexachlorobutadiene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Isopropylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
m,p-Xylene	ND	1.0	1	B9B0359	02/15/2019	02/15/19 19:27	
Methylene chloride	ND	1.0	1	B9B0359	02/15/2019	02/15/19 19:27	
n-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
n-Propylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Naphthalene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
o-Xylene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
sec-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Styrene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
tert-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Tetrachloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Toluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Trichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Trichlorofluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Vinyl chloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:27	
Surrogate: 1,2-Dichloroethane-d4	*97.6 %*	*57 - 152*		B9B0359	02/15/2019	*02/15/19 19:27*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*		B9B0359	02/15/2019	*02/15/19 19:27*	
Surrogate: Dibromofluoromethane	*90.0 %*	*56 - 167*		B9B0359	02/15/2019	*02/15/19 19:27*	
Surrogate: Toluene-d8	*111 %*	*33 - 170*		B9B0359	02/15/2019	*02/15/19 19:27*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID MW-34C

Lab ID: 1900597-05

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0437	02/19/2019	02/19/19 17:13	
Surrogate: 1,2-Dichlorobenzene-d4	*71.3 %*		*22 - 117*		B9B0437	02/19/2019	*02/19/19 17:13*	
Surrogate: 2-Fluorobiphenyl	*64.5 %*		*20 - 131*		B9B0437	02/19/2019	*02/19/19 17:13*	
Surrogate: 4-Terphenyl-d14	*56.2 %*		*24 - 135*		B9B0437	02/19/2019	*02/19/19 17:13*	
Surrogate: Nitrobenzene-d5	*118 %*		*6 - 124*		B9B0437	02/19/2019	*02/19/19 17:13*	

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Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID MW-34B

Lab ID: 1900597-06

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,1,1-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,1,2-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,1-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,1-Dichloroethene	**26**	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,1-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,2,3-Trichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,2-Dibromoethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,2-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,2-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,3-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,3-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
1,4-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
2,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
2-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
4-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
4-Isopropyltoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Benzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Bromobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Bromodichloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Bromoform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Bromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Carbon tetrachloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Chlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Chloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Chloroform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Chloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Dibromochloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	

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Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID MW-34B

Lab ID: 1900597-06

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Dichlorodifluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Ethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Hexachlorobutadiene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Isopropylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
m,p-Xylene	ND	1.0	1	B9B0359	02/15/2019	02/15/19 19:52	
Methylene chloride	ND	1.0	1	B9B0359	02/15/2019	02/15/19 19:52	
n-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
n-Propylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Naphthalene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
o-Xylene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
sec-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Styrene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
tert-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Tetrachloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Toluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Trichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Trichlorofluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Vinyl chloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 19:52	
Surrogate: 1,2-Dichloroethane-d4	*97.6 %*	*57 - 152*		B9B0359	02/15/2019	*02/15/19 19:52*	
Surrogate: 4-Bromofluorobenzene	*110 %*	*62 - 134*		B9B0359	02/15/2019	*02/15/19 19:52*	
Surrogate: Dibromofluoromethane	*88.4 %*	*56 - 167*		B9B0359	02/15/2019	*02/15/19 19:52*	
Surrogate: Toluene-d8	*111 %*	*33 - 170*		B9B0359	02/15/2019	*02/15/19 19:52*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID MW-34B

Lab ID: 1900597-06

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**3.2**	2.0	1	B9B0417	02/18/2019	02/20/19 12:26	
Surrogate: 1,2-Dichlorobenzene-d4	*65.6 %*		*34 - 188*		B9B0417	02/18/2019	*02/20/19 12:26*	
Surrogate: 2-Fluorobiphenyl	*74.6 %*		*39 - 108*		B9B0417	02/18/2019	*02/20/19 12:26*	
Surrogate: 4-Terphenyl-d14	*108 %*		*71 - 131*		B9B0417	02/18/2019	*02/20/19 12:26*	
Surrogate: Nitrobenzene-d5	*70.4 %*		*32 - 106*		B9B0417	02/18/2019	*02/20/19 12:26*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-24

Lab ID: 1900597-07

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,1,1-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,1,2-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,1-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,1-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,1-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,2,3-Trichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,2-Dibromoethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,2-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,2-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,3-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,3-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
1,4-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
2,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
2-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
4-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
4-Isopropyltoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Benzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Bromobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Bromodichloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Bromoform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Bromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Carbon tetrachloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Chlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Chloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Chloroform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Chloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Dibromochloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID MW-24

Lab ID: 1900597-07

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Dichlorodifluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Ethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Hexachlorobutadiene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Isopropylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
m,p-Xylene	ND	1.0	1	B9B0359	02/15/2019	02/15/19 20:16	
Methylene chloride	ND	1.0	1	B9B0359	02/15/2019	02/15/19 20:16	
n-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
n-Propylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Naphthalene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
o-Xylene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
sec-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Styrene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
tert-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Tetrachloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Toluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Trichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Trichlorofluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Vinyl chloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:16	
Surrogate: 1,2-Dichloroethane-d4	*100 %*	*57 - 152*		B9B0359	02/15/2019	*02/15/19 20:16*	
Surrogate: 4-Bromofluorobenzene	*112 %*	*62 - 134*		B9B0359	02/15/2019	*02/15/19 20:16*	
Surrogate: Dibromofluoromethane	*91.6 %*	*56 - 167*		B9B0359	02/15/2019	*02/15/19 20:16*	
Surrogate: Toluene-d8	*113 %*	*33 - 170*		B9B0359	02/15/2019	*02/15/19 20:16*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID MW-24

Lab ID: 1900597-07

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0437	02/19/2019	02/19/19 15:02	
Surrogate: 1,2-Dichlorobenzene-d4	*67.4 %*		*22 - 117*		B9B0437	02/19/2019	*02/19/19 15:02*	
Surrogate: 2-Fluorobiphenyl	*55.5 %*		*20 - 131*		B9B0437	02/19/2019	*02/19/19 15:02*	
Surrogate: 4-Terphenyl-d14	*47.8 %*		*24 - 135*		B9B0437	02/19/2019	*02/19/19 15:02*	
Surrogate: Nitrobenzene-d5	*111 %*		*6 - 124*		B9B0437	02/19/2019	*02/19/19 15:02*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-35C

Lab ID: 1900597-08

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,1,1-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,1,2-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,1-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,1-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,1-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,2,3-Trichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,2-Dibromoethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,2-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,2-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,3-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,3-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
1,4-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
2,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
2-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
4-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
4-Isopropyltoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Benzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Bromobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Bromodichloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Bromoform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Bromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Carbon tetrachloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Chlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Chloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Chloroform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Chloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Dibromochloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-35C

Lab ID: 1900597-08

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Dichlorodifluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Ethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Hexachlorobutadiene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Isopropylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
m,p-Xylene	ND	1.0	1	B9B0391	02/18/2019	02/18/19 14:07	
Methylene chloride	ND	1.0	1	B9B0391	02/18/2019	02/18/19 14:07	
n-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
n-Propylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Naphthalene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
o-Xylene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
sec-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Styrene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
tert-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Tetrachloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Toluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Trichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Trichlorofluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Vinyl chloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:07	
Surrogate: 1,2-Dichloroethane-d4	*101 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 14:07*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 14:07*	
Surrogate: Dibromofluoromethane	*95.8 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 14:07*	
Surrogate: Toluene-d8	*111 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 14:07*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID MW-35C

Lab ID: 1900597-08

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0437	02/19/2019	02/19/19 15:28	
Surrogate: 1,2-Dichlorobenzene-d4	*71.1 %*		*22 - 117*		B9B0437	02/19/2019	*02/19/19 15:28*	
Surrogate: 2-Fluorobiphenyl	*62.3 %*		*20 - 131*		B9B0437	02/19/2019	*02/19/19 15:28*	
Surrogate: 4-Terphenyl-d14	*65.2 %*		*24 - 135*		B9B0437	02/19/2019	*02/19/19 15:28*	
Surrogate: Nitrobenzene-d5	*115 %*		*6 - 124*		B9B0437	02/19/2019	*02/19/19 15:28*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-37

Lab ID: 1900597-09

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,1,1-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,1,2-Trichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,1-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,1-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,1-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,2,3-Trichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,2-Dibromoethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,2-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,2-Dichloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,3-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,3-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
1,4-Dichlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
2,2-Dichloropropane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
2-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
4-Chlorotoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
4-Isopropyltoluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Benzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Bromobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Bromodichloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Bromoform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Bromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Carbon tetrachloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Chlorobenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Chloroethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Chloroform	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Chloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Dibromochloromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-37

Lab ID: 1900597-09

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Dichlorodifluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Ethylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Hexachlorobutadiene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Isopropylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
m,p-Xylene	ND	1.0	1	B9B0359	02/15/2019	02/15/19 20:41	
Methylene chloride	ND	1.0	1	B9B0359	02/15/2019	02/15/19 20:41	
n-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
n-Propylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Naphthalene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
o-Xylene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
sec-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Styrene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
tert-Butylbenzene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Tetrachloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Toluene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Trichloroethene	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Trichlorofluoromethane	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Vinyl chloride	ND	0.50	1	B9B0359	02/15/2019	02/15/19 20:41	
Surrogate: 1,2-Dichloroethane-d4	*100 %*	*57 - 152*		B9B0359	02/15/2019	*02/15/19 20:41*	
Surrogate: 4-Bromofluorobenzene	*111 %*	*62 - 134*		B9B0359	02/15/2019	*02/15/19 20:41*	
Surrogate: Dibromofluoromethane	*91.0 %*	*56 - 167*		B9B0359	02/15/2019	*02/15/19 20:41*	
Surrogate: Toluene-d8	*112 %*	*33 - 170*		B9B0359	02/15/2019	*02/15/19 20:41*	

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9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
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Client Sample ID MW-37

Lab ID: 1900597-09

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0437	02/19/2019	02/19/19 15:54	
Surrogate: 1,2-Dichlorobenzene-d4	*72.8 %*		*22 - 117*		B9B0437	02/19/2019	*02/19/19 15:54*	
Surrogate: 2-Fluorobiphenyl	*67.0 %*		*20 - 131*		B9B0437	02/19/2019	*02/19/19 15:54*	
Surrogate: 4-Terphenyl-d14	*63.8 %*		*24 - 135*		B9B0437	02/19/2019	*02/19/19 15:54*	
Surrogate: Nitrobenzene-d5	*116 %*		*6 - 124*		B9B0437	02/19/2019	*02/19/19 15:54*	

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Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID MW-33-1.5SV

Lab ID: 1900597-10

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,1,1-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,1,2-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,1-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,1-Dichloroethene	**3.8**	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,1-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,2,3-Trichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,2-Dibromoethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,2-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,2-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,3-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,3-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
1,4-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
2,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
2-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
4-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
4-Isopropyltoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Benzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Bromobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Bromodichloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Bromoform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Bromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Carbon tetrachloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Chlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Chloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Chloroform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Chloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Dibromochloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	

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San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-33-1.5SV

Lab ID: 1900597-10

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Dichlorodifluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Ethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Hexachlorobutadiene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Isopropylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
m,p-Xylene	ND	1.0	1	B9B0391	02/18/2019	02/18/19 14:31	
Methylene chloride	ND	1.0	1	B9B0391	02/18/2019	02/18/19 14:31	
n-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
n-Propylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Naphthalene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
o-Xylene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
sec-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Styrene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
tert-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Tetrachloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Toluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Trichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Trichlorofluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Vinyl chloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:31	
Surrogate: 1,2-Dichloroethane-d4	*106 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 14:31*	
Surrogate: 4-Bromofluorobenzene	*108 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 14:31*	
Surrogate: Dibromofluoromethane	*100 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 14:31*	
Surrogate: Toluene-d8	*110 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 14:31*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-33-1.5SV

Lab ID: 1900597-10

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0437	02/19/2019	02/19/19 16:21	
Surrogate: 1,2-Dichlorobenzene-d4	*75.4 %*		*22 - 117*		B9B0437	02/19/2019	*02/19/19 16:21*	
Surrogate: 2-Fluorobiphenyl	*69.1 %*		*20 - 131*		B9B0437	02/19/2019	*02/19/19 16:21*	
Surrogate: 4-Terphenyl-d14	*64.3 %*		*24 - 135*		B9B0437	02/19/2019	*02/19/19 16:21*	
Surrogate: Nitrobenzene-d5	*121 %*		*6 - 124*		B9B0437	02/19/2019	*02/19/19 16:21*	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-33

Lab ID: 1900597-11

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,1,1-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,1,2-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,1-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,1-Dichloroethene	**4.7**	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,1-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,2,3-Trichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,2-Dibromoethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,2-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,2-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,3-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,3-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
1,4-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
2,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
2-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
4-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
4-Isopropyltoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Benzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Bromobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Bromodichloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Bromoform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Bromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Carbon tetrachloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Chlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Chloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Chloroform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Chloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Dibromochloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	

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Lab ID: 1900597-11

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Dichlorodifluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Ethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Hexachlorobutadiene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Isopropylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
m,p-Xylene	ND	1.0	1	B9B0391	02/18/2019	02/18/19 14:55	
Methylene chloride	ND	1.0	1	B9B0391	02/18/2019	02/18/19 14:55	
n-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
n-Propylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Naphthalene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
o-Xylene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
sec-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Styrene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
tert-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Tetrachloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Toluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Trichloroethene	**0.51**	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Trichlorofluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Vinyl chloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 14:55	
Surrogate: 1,2-Dichloroethane-d4	*113 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 14:55*	
Surrogate: 4-Bromofluorobenzene	*108 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 14:55*	
Surrogate: Dibromofluoromethane	*106 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 14:55*	
Surrogate: Toluene-d8	*109 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 14:55*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
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Client Sample ID MW-33

Lab ID: 1900597-11

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0437	02/19/2019	02/19/19 16:47	
Surrogate: 1,2-Dichlorobenzene-d4	*73.5 %*		*22 - 117*		B9B0437	02/19/2019	*02/19/19 16:47*	
Surrogate: 2-Fluorobiphenyl	*65.9 %*		*20 - 131*		B9B0437	02/19/2019	*02/19/19 16:47*	
Surrogate: 4-Terphenyl-d14	*64.3 %*		*24 - 135*		B9B0437	02/19/2019	*02/19/19 16:47*	
Surrogate: Nitrobenzene-d5	*115 %*		*6 - 124*		B9B0437	02/19/2019	*02/19/19 16:47*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-32C

Lab ID: 1900597-12

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,1,1-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,1,2-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,1-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,1-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,1-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,2,3-Trichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,2-Dibromoethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,2-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,2-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,3-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,3-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
1,4-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
2,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
2-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
4-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
4-Isopropyltoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Benzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Bromobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Bromodichloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Bromoform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Bromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Carbon tetrachloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Chlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Chloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Chloroform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Chloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Dibromochloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Client Sample ID MW-32C

Lab ID: 1900597-12

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Dichlorodifluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Ethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Hexachlorobutadiene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Isopropylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
m,p-Xylene	ND	1.0	1	B9B0391	02/18/2019	02/18/19 15:20	
Methylene chloride	ND	1.0	1	B9B0391	02/18/2019	02/18/19 15:20	
n-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
n-Propylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Naphthalene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
o-Xylene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
sec-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Styrene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
tert-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Tetrachloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Toluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Trichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Trichlorofluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Vinyl chloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 15:20	
Surrogate: 1,2-Dichloroethane-d4	*107 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 15:20*	
Surrogate: 4-Bromofluorobenzene	*107 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 15:20*	
Surrogate: Dibromofluoromethane	*100 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 15:20*	
Surrogate: Toluene-d8	*111 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 15:20*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Client Sample ID MW-32C

Lab ID: 1900597-12

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0437	02/19/2019	02/19/19 17:40	
Surrogate: 1,2-Dichlorobenzene-d4	*64.1 %*		*22 - 117*		B9B0437	02/19/2019	*02/19/19 17:40*	
Surrogate: 2-Fluorobiphenyl	*59.1 %*		*20 - 131*		B9B0437	02/19/2019	*02/19/19 17:40*	
Surrogate: 4-Terphenyl-d14	*75.9 %*		*24 - 135*		B9B0437	02/19/2019	*02/19/19 17:40*	
Surrogate: Nitrobenzene-d5	*107 %*		*6 - 124*		B9B0437	02/19/2019	*02/19/19 17:40*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0359 - MSVOA_W										
Blank (B9B0359-BLK1)					Prepared: 2/15/2019 Analyzed: 2/15/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0359 - MSVOA_W (continued)										
Blank (B9B0359-BLK1) - Continued					Prepared: 2/15/2019 Analyzed: 2/15/2019					
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*28.49*			*25.0000*		*114*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*26.23*			*25.0000*		*105*	*62 - 134*			
Surrogate: Dibromofluoromethan	*26.81*			*25.0000*		*107*	*56 - 167*			
Surrogate: Toluene-d8	*26.33*			*25.0000*		*105*	*33 - 170*			
LCS (B9B0359-BS1)					Prepared: 2/15/2019 Analyzed: 2/15/2019					
1,1,1,2-Tetrachloroethane	19.8000	0.50	0.11	20.0000		99.0	80 - 137			
1,1,1-Trichloroethane	19.4800	0.50	0.18	20.0000		97.4	75 - 148			
1,1,2,2-Tetrachloroethane	17.1800	0.50	0.17	20.0000		85.9	64 - 118			
1,1,2-Trichloroethane	20.4000	0.50	0.12	20.0000		102	77 - 113			
1,1-Dichloroethane	22.8900	0.50	0.16	20.0000		114	72 - 131			
1,1-Dichloroethene	23.6000	0.50	0.09	20.0000		118	75 - 132			
1,1-Dichloropropene	21.2300	0.50	0.21	20.0000		106	84 - 141			
1,2,3-Trichloropropane	17.5700	0.50	0.16	20.0000		87.8	65 - 111			
1,2,3-Trichlorobenzene	20.6100	0.50	0.12	20.0000		103	79 - 117			
1,2,4-Trichlorobenzene	20.8500	0.50	0.12	20.0000		104	78 - 121			
1,2,4-Trimethylbenzene	20.7500	0.50	0.08	20.0000		104	83 - 125			
1,2-Dibromo-3-chloropropane	19.7500	0.50	0.24	20.0000		98.8	54 - 116			
1,2-Dibromoethane	20.3300	0.50	0.11	20.0000		102	79 - 118			
1,2-Dichlorobenzene	20.5900	0.50	0.09	20.0000		103	82 - 115			
1,2-Dichloroethane	20.6800	0.50	0.19	20.0000		103	76 - 115			
1,2-Dichloropropane	19.2700	0.50	0.36	20.0000		96.4	74 - 113			
1,3,5-Trimethylbenzene	21.2300	0.50	0.05	20.0000		106	83 - 126			

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Project Number : Raytheon Main, 532.30
Report To : Steve Netto
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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0359 - MSVOA_W (continued)										
LCS (B9B0359-BS1) - Continued					Prepared: 2/15/2019 Analyzed: 2/15/2019					
1,3-Dichlorobenzene	20.4600	0.50	0.10	20.0000		102	84 - 118			
1,3-Dichloropropane	17.8700	0.50	0.07	20.0000		89.4	72 - 116			
1,4-Dichlorobenzene	20.2900	0.50	0.07	20.0000		101	83 - 112			
2,2-Dichloropropane	21.3600	0.50	0.16	20.0000		107	72 - 150			
2-Chlorotoluene	20.1600	0.50	0.08	20.0000		101	82 - 120			
4-Chlorotoluene	20.5500	0.50	0.08	20.0000		103	81 - 121			
4-Isopropyltoluene	21.7900	0.50	0.06	20.0000		109	86 - 124			
Benzene	39.9600	0.50	0.03	40.0000		99.9	81 - 118			
Bromobenzene	19.0700	0.50	0.09	20.0000		95.4	82 - 117			
Bromodichloromethane	19.5700	0.50	0.14	20.0000		97.8	80 - 122			
Bromoform	20.0900	0.50	0.13	20.0000		100	53 - 145			
Bromomethane	17.4800	0.50	0.42	20.0000		87.4	30 - 204			
Carbon tetrachloride	21.3000	0.50	0.19	20.0000		106	77 - 157			
Chlorobenzene	19.9800	0.50	0.07	20.0000		99.9	86 - 113			
Chloroethane	20.8200	0.50	0.40	20.0000		104	70 - 160			
Chloroform	21.8800	0.50	0.17	20.0000		109	66 - 136			
Chloromethane	19.4200	0.50	0.08	20.0000		97.1	52 - 138			
cis-1,2-Dichloroethene	22.4100	0.50	0.13	20.0000		112	71 - 128			
cis-1,3-Dichloropropene	22.6900	0.50	0.05	20.0000		113	71 - 123			
Dibromochloromethane	18.9800	0.50	0.14	20.0000		94.9	78 - 140			
Dibromomethane	20.2900	0.50	0.10	20.0000		101	78 - 109			
Dichlorodifluoromethane	19.6400	0.50	0.10	20.0000		98.2	64 - 144			
Ethylbenzene	41.4000	0.50	0.07	40.0000		104	90 - 116			
Hexachlorobutadiene	22.7000	0.50	0.14	20.0000		114	81 - 129			
Isopropylbenzene	21.7100	0.50	0.05	20.0000		109	83 - 129			
m,p-Xylene	45.1600	1.0	0.08	40.0000		113	88 - 124			
Methylene chloride	20.1400	1.0	0.46	20.0000		101	76 - 137			
n-Butylbenzene	21.6100	0.50	0.05	20.0000		108	83 - 129			
n-Propylbenzene	20.9000	0.50	0.07	20.0000		104	85 - 124			
Naphthalene	19.1400	0.50	0.15	20.0000		95.7	67 - 113			
o-Xylene	44.6600	0.50	0.05	40.0000		112	82 - 129			
sec-Butylbenzene	21.3500	0.50	0.04	20.0000		107	86 - 127			
Styrene	22.5400	0.50	0.06	20.0000		113	83 - 122			
tert-Butylbenzene	21.3600	0.50	0.06	20.0000		107	84 - 130			
Tetrachloroethene	19.6300	0.50	0.07	20.0000		98.2	87 - 123			
Toluene	44.2000	0.50	0.07	40.0000		110	84 - 115			
trans-1,2-Dichloroethene	22.0900	0.50	0.11	20.0000		110	60 - 148			
Trichloroethene	19.6400	0.50	0.05	20.0000		98.2	79 - 129			
Trichlorofluoromethane	22.7800	0.50	0.14	20.0000		114	68 - 162			
Vinyl chloride	20.4300	0.50	0.05	20.0000		102	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*27.59*			*25.0000*		*110*	*57 - 152*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0359 - MSVOA_W (continued)										
LCS (B9B0359-BS1) - Continued					Prepared: 2/15/2019 Analyzed: 2/15/2019					
Surrogate: 4-Bromofluorobenzene	*27.72*			*25.0000*		*111*	*62 - 134*			
Surrogate: Dibromofluoromethan	*28.27*			*25.0000*		*113*	*56 - 167*			
Surrogate: Toluene-d8	*26.60*			*25.0000*		*106*	*33 - 170*			
LCS Dup (B9B0359-BSD1)					Prepared: 2/15/2019 Analyzed: 2/15/2019					
1,1,1,2-Tetrachloroethane	19.6000	0.50	0.11	20.0000		98.0	80 - 137	1.02	20	
1,1,1-Trichloroethane	19.0900	0.50	0.18	20.0000		95.4	75 - 148	2.02	20	
1,1,2,2-Tetrachloroethane	17.9700	0.50	0.17	20.0000		89.8	64 - 118	4.50	20	
1,1,2-Trichloroethane	20.9800	0.50	0.12	20.0000		105	77 - 113	2.80	20	
1,1-Dichloroethane	22.2800	0.50	0.16	20.0000		111	72 - 131	2.70	20	
1,1-Dichloroethene	23.0900	0.50	0.09	20.0000		115	75 - 132	2.18	20	
1,1-Dichloropropene	20.8700	0.50	0.21	20.0000		104	84 - 141	1.71	20	
1,2,3-Trichloropropane	18.3500	0.50	0.16	20.0000		91.8	65 - 111	4.34	20	
1,2,3-Trichlorobenzene	20.7700	0.50	0.12	20.0000		104	79 - 117	0.773	20	
1,2,4-Trichlorobenzene	20.3200	0.50	0.12	20.0000		102	78 - 121	2.57	20	
1,2,4-Trimethylbenzene	20.1200	0.50	0.08	20.0000		101	83 - 125	3.08	20	
1,2-Dibromo-3-chloropropane	20.6000	0.50	0.24	20.0000		103	54 - 116	4.21	20	
1,2-Dibromoethane	21.1500	0.50	0.11	20.0000		106	79 - 118	3.95	20	
1,2-Dichlorobenzene	20.2000	0.50	0.09	20.0000		101	82 - 115	1.91	20	
1,2-Dichloroethane	21.4000	0.50	0.19	20.0000		107	76 - 115	3.42	20	
1,2-Dichloropropane	19.2800	0.50	0.36	20.0000		96.4	74 - 113	0.0519	20	
1,3,5-Trimethylbenzene	20.5300	0.50	0.05	20.0000		103	83 - 126	3.35	20	
1,3-Dichlorobenzene	19.8100	0.50	0.10	20.0000		99.0	84 - 118	3.23	20	
1,3-Dichloropropane	18.3100	0.50	0.07	20.0000		91.6	72 - 116	2.43	20	
1,4-Dichlorobenzene	19.6500	0.50	0.07	20.0000		98.2	83 - 112	3.20	20	
2,2-Dichloropropane	20.4000	0.50	0.16	20.0000		102	72 - 150	4.60	20	
2-Chlorotoluene	19.4200	0.50	0.08	20.0000		97.1	82 - 120	3.74	20	
4-Chlorotoluene	19.7500	0.50	0.08	20.0000		98.8	81 - 121	3.97	20	
4-Isopropyltoluene	20.9200	0.50	0.06	20.0000		105	86 - 124	4.07	20	
Benzene	39.6300	0.50	0.03	40.0000		99.1	81 - 118	0.829	20	
Bromobenzene	18.5300	0.50	0.09	20.0000		92.6	82 - 117	2.87	20	
Bromodichloromethane	19.4600	0.50	0.14	20.0000		97.3	80 - 122	0.564	20	
Bromoform	20.8100	0.50	0.13	20.0000		104	53 - 145	3.52	20	
Bromomethane	16.5100	0.50	0.42	20.0000		82.6	30 - 204	5.71	20	
Carbon tetrachloride	20.7500	0.50	0.19	20.0000		104	77 - 157	2.62	20	
Chlorobenzene	19.6800	0.50	0.07	20.0000		98.4	86 - 113	1.51	20	
Chloroethane	20.3500	0.50	0.40	20.0000		102	70 - 160	2.28	20	
Chloroform	21.4300	0.50	0.17	20.0000		107	66 - 136	2.08	20	
Chloromethane	18.7200	0.50	0.08	20.0000		93.6	52 - 138	3.67	20	
cis-1,2-Dichloroethene	21.9300	0.50	0.13	20.0000		110	71 - 128	2.17	20	
cis-1,3-Dichloropropene	22.8000	0.50	0.05	20.0000		114	71 - 123	0.484	20	
Dibromochloromethane	19.3500	0.50	0.14	20.0000		96.8	78 - 140	1.93	20	

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Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0359 - MSVOA_W (continued)										
LCS Dup (B9B0359-BSD1) - Continued					Prepared: 2/15/2019 Analyzed: 2/15/2019					
Dibromomethane	21.3700	0.50	0.10	20.0000		107	78 - 109	5.18	20	
Dichlorodifluoromethane	19.1300	0.50	0.10	20.0000		95.6	64 - 144	2.63	20	
Ethylbenzene	40.8700	0.50	0.07	40.0000		102	90 - 116	1.29	20	
Hexachlorobutadiene	21.3500	0.50	0.14	20.0000		107	81 - 129	6.13	20	
Isopropylbenzene	20.9000	0.50	0.05	20.0000		104	83 - 129	3.80	20	
m,p-Xylene	44.5500	1.0	0.08	40.0000		111	88 - 124	1.36	20	
Methylene chloride	19.6500	1.0	0.46	20.0000		98.2	76 - 137	2.46	20	
n-Butylbenzene	20.5800	0.50	0.05	20.0000		103	83 - 129	4.88	20	
n-Propylbenzene	20.0200	0.50	0.07	20.0000		100	85 - 124	4.30	20	
Naphthalene	19.9600	0.50	0.15	20.0000		99.8	67 - 113	4.19	20	
o-Xylene	44.2000	0.50	0.05	40.0000		110	82 - 129	1.04	20	
sec-Butylbenzene	20.5500	0.50	0.04	20.0000		103	86 - 127	3.82	20	
Styrene	22.3600	0.50	0.06	20.0000		112	83 - 122	0.802	20	
tert-Butylbenzene	20.5300	0.50	0.06	20.0000		103	84 - 130	3.96	20	
Tetrachloroethene	19.3600	0.50	0.07	20.0000		96.8	87 - 123	1.38	20	
Toluene	43.4900	0.50	0.07	40.0000		109	84 - 115	1.62	20	
trans-1,2-Dichloroethene	21.5500	0.50	0.11	20.0000		108	60 - 148	2.47	20	
Trichloroethene	19.3500	0.50	0.05	20.0000		96.8	79 - 129	1.49	20	
Trichlorofluoromethane	22.2500	0.50	0.14	20.0000		111	68 - 162	2.35	20	
Vinyl chloride	20.1400	0.50	0.05	20.0000		101	73 - 128	1.43	20	
Surrogate: 1,2-Dichloroethane-d4	*28.24*			*25.0000*		*113*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*28.19*			*25.0000*		*113*	*62 - 134*			
Surrogate: Dibromofluoromethan	*28.51*			*25.0000*		*114*	*56 - 167*			
Surrogate: Toluene-d8	*26.59*			*25.0000*		*106*	*33 - 170*			
Duplicate (B9B0359-DUP1)				**Source: 1900581-01**	Prepared: 2/15/2019 Analyzed: 2/15/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11		ND				20	
1,1,1-Trichloroethane	ND	0.50	0.18		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	0.17		ND				20	
1,1,2-Trichloroethane	ND	0.50	0.12		ND				20	
1,1-Dichloroethane	ND	0.50	0.16		ND				20	
1,1-Dichloroethene	ND	0.50	0.09		ND				20	
1,1-Dichloropropene	ND	0.50	0.21		ND				20	
1,2,3-Trichloropropane	ND	0.50	0.16		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	0.12		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	0.12		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	0.08		ND				20	
1,2-Dibromo-3-chloropropane	ND	0.50	0.24		ND				20	
1,2-Dibromoethane	ND	0.50	0.11		ND				20	
1,2-Dichlorobenzene	ND	0.50	0.09		ND				20	
1,2-Dichloroethane	ND	0.50	0.19		ND				20	

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Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0359 - MSVOA_W (continued)										
Duplicate (B9B0359-DUP1) - Continued			**Source: 1900581-01**		Prepared: 2/15/2019 Analyzed: 2/15/2019					
1,2-Dichloropropane	ND	0.50	0.36		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	0.05		ND				20	
1,3-Dichlorobenzene	ND	0.50	0.10		ND				20	
1,3-Dichloropropane	ND	0.50	0.07		ND				20	
1,4-Dichlorobenzene	ND	0.50	0.07		ND				20	
2,2-Dichloropropane	ND	0.50	0.16		ND				20	
2-Chlorotoluene	ND	0.50	0.08		ND				20	
4-Chlorotoluene	ND	0.50	0.08		ND				20	
4-Isopropyltoluene	ND	0.50	0.06		ND				20	
Benzene	ND	0.50	0.03		ND				20	
Bromobenzene	ND	0.50	0.09		ND				20	
Bromodichloromethane	ND	0.50	0.14		ND				20	
Bromoform	ND	0.50	0.13		ND				20	
Bromomethane	ND	0.50	0.42		ND				20	
Carbon tetrachloride	3.48000	0.50	0.19		3.47000			0.288	20	
Chlorobenzene	ND	0.50	0.07		ND				20	
Chloroethane	ND	0.50	0.40		ND				20	
Chloroform	2.03000	0.50	0.17		2.08000			2.43	20	
Chloromethane	0.780000	0.50	0.08		0.520000			40.0	20	R
cis-1,2-Dichloroethene	ND	0.50	0.13		ND				20	
cis-1,3-Dichloropropene	ND	0.50	0.05		ND				20	
Dibromochloromethane	ND	0.50	0.14		ND				20	
Dibromomethane	ND	0.50	0.10		ND				20	
Dichlorodifluoromethane	ND	0.50	0.10		ND				20	
Ethylbenzene	ND	0.50	0.07		ND				20	
Hexachlorobutadiene	ND	0.50	0.14		ND				20	
Isopropylbenzene	ND	0.50	0.05		ND				20	
m,p-Xylene	ND	1.0	0.08		ND				20	
Methylene chloride	ND	1.0	0.46		ND				20	
n-Butylbenzene	ND	0.50	0.05		ND				20	
n-Propylbenzene	ND	0.50	0.07		ND				20	
Naphthalene	ND	0.50	0.15		ND				20	
o-Xylene	ND	0.50	0.05		ND				20	
sec-Butylbenzene	ND	0.50	0.04		ND				20	
Styrene	ND	0.50	0.06		ND				20	
tert-Butylbenzene	ND	0.50	0.06		ND				20	
Tetrachloroethene	ND	0.50	0.07		ND				20	
Toluene	ND	0.50	0.07		ND				20	
trans-1,2-Dichloroethene	ND	0.50	0.11		ND				20	
Trichloroethene	ND	0.50	0.05		ND				20	
Trichlorofluoromethane	ND	0.50	0.14		ND				20	
Vinyl chloride	ND	0.50	0.05		ND				20	

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0359 - MSVOA_W (continued)									
Duplicate (B9B0359-DUP1) - Continued				**Source: 1900581-01**		Prepared: 2/15/2019 Analyzed: 2/15/2019			
Surrogate: 1,2-Dichloroethane-d4	*27.97*		*25.0000*		*112*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*26.81*		*25.0000*		*107*	*62 - 134*			
Surrogate: Dibromofluoromethan	*26.26*		*25.0000*		*105*	*56 - 167*			
Surrogate: Toluene-d8	*27.25*		*25.0000*		*109*	*33 - 170*			

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Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0391 - MSVOA_W										
Blank (B9B0391-BLK1)					Prepared: 2/18/2019 Analyzed: 2/18/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							

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Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0391 - MSVOA_W (continued)										
Blank (B9B0391-BLK1) - Continued					Prepared: 2/18/2019 Analyzed: 2/18/2019					
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*26.41*			*25.0000*		*106*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*26.85*			*25.0000*		*107*	*62 - 134*			
Surrogate: Dibromofluoromethan	*25.29*			*25.0000*		*101*	*56 - 167*			
Surrogate: Toluene-d8	*26.98*			*25.0000*		*108*	*33 - 170*			
LCS (B9B0391-BS1)					Prepared: 2/18/2019 Analyzed: 2/18/2019					
1,1,1,2-Tetrachloroethane	19.2300	0.50	0.11	20.0000		96.2	80 - 137			
1,1,1-Trichloroethane	18.6900	0.50	0.18	20.0000		93.4	75 - 148			
1,1,2,2-Tetrachloroethane	16.0100	0.50	0.17	20.0000		80.0	64 - 118			
1,1,2-Trichloroethane	19.0500	0.50	0.12	20.0000		95.2	77 - 113			
1,1-Dichloroethane	21.6100	0.50	0.16	20.0000		108	72 - 131			
1,1-Dichloroethene	23.3000	0.50	0.09	20.0000		116	75 - 132			
1,1-Dichloropropene	20.7900	0.50	0.21	20.0000		104	84 - 141			
1,2,3-Trichloropropane	16.6700	0.50	0.16	20.0000		83.4	65 - 111			
1,2,3-Trichlorobenzene	21.0000	0.50	0.12	20.0000		105	79 - 117			
1,2,4-Trichlorobenzene	21.2400	0.50	0.12	20.0000		106	78 - 121			
1,2,4-Trimethylbenzene	20.7700	0.50	0.08	20.0000		104	83 - 125			
1,2-Dibromo-3-chloropropane	18.6500	0.50	0.24	20.0000		93.2	54 - 116			
1,2-Dibromoethane	19.9100	0.50	0.11	20.0000		99.6	79 - 118			
1,2-Dichlorobenzene	20.7000	0.50	0.09	20.0000		104	82 - 115			
1,2-Dichloroethane	19.2300	0.50	0.19	20.0000		96.2	76 - 115			
1,2-Dichloropropane	18.5300	0.50	0.36	20.0000		92.6	74 - 113			
1,3,5-Trimethylbenzene	21.1600	0.50	0.05	20.0000		106	83 - 126			
1,3-Dichlorobenzene	20.8000	0.50	0.10	20.0000		104	84 - 118			
1,3-Dichloropropane	16.7200	0.50	0.07	20.0000		83.6	72 - 116			

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Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0391 - MSVOA_W (continued)										
LCS (B9B0391-BS1) - Continued					Prepared: 2/18/2019 Analyzed: 2/18/2019					
1,4-Dichlorobenzene	20.5500	0.50	0.07	20.0000		103	83 - 112			
2,2-Dichloropropane	20.9900	0.50	0.16	20.0000		105	72 - 150			
2-Chlorotoluene	20.2600	0.50	0.08	20.0000		101	82 - 120			
4-Chlorotoluene	20.6400	0.50	0.08	20.0000		103	81 - 121			
4-Isopropyltoluene	22.1300	0.50	0.06	20.0000		111	86 - 124			
Benzene	39.7000	0.50	0.03	40.0000		99.2	81 - 118			
Bromobenzene	19.1900	0.50	0.09	20.0000		96.0	82 - 117			
Bromodichloromethane	18.7500	0.50	0.14	20.0000		93.8	80 - 122			
Bromoform	19.9200	0.50	0.13	20.0000		99.6	53 - 145			
Bromomethane	20.4700	0.50	0.42	20.0000		102	30 - 204			
Carbon tetrachloride	21.1700	0.50	0.19	20.0000		106	77 - 157			
Chlorobenzene	20.6400	0.50	0.07	20.0000		103	86 - 113			
Chloroethane	21.7500	0.50	0.40	20.0000		109	70 - 160			
Chloroform	20.3100	0.50	0.17	20.0000		102	66 - 136			
Chloromethane	22.6200	0.50	0.08	20.0000		113	52 - 138			
cis-1,2-Dichloroethene	20.7700	0.50	0.13	20.0000		104	71 - 128			
cis-1,3-Dichloropropene	21.7100	0.50	0.05	20.0000		109	71 - 123			
Dibromochloromethane	17.7400	0.50	0.14	20.0000		88.7	78 - 140			
Dibromomethane	18.8100	0.50	0.10	20.0000		94.0	78 - 109			
Dichlorodifluoromethane	23.9500	0.50	0.10	20.0000		120	64 - 144			
Ethylbenzene	42.2600	0.50	0.07	40.0000		106	90 - 116			
Hexachlorobutadiene	23.8600	0.50	0.14	20.0000		119	81 - 129			
Isopropylbenzene	21.7500	0.50	0.05	20.0000		109	83 - 129			
m,p-Xylene	46.7200	1.0	0.08	40.0000		117	88 - 124			
Methylene chloride	20.7900	1.0	0.46	20.0000		104	76 - 137			
n-Butylbenzene	21.9800	0.50	0.05	20.0000		110	83 - 129			
n-Propylbenzene	20.9800	0.50	0.07	20.0000		105	85 - 124			
Naphthalene	18.5800	0.50	0.15	20.0000		92.9	67 - 113			
o-Xylene	46.2100	0.50	0.05	40.0000		116	82 - 129			
sec-Butylbenzene	21.8000	0.50	0.04	20.0000		109	86 - 127			
Styrene	23.0500	0.50	0.06	20.0000		115	83 - 122			
tert-Butylbenzene	21.6600	0.50	0.06	20.0000		108	84 - 130			
Tetrachloroethene	20.3800	0.50	0.07	20.0000		102	87 - 123			
Toluene	45.4000	0.50	0.07	40.0000		114	84 - 115			
trans-1,2-Dichloroethene	21.1100	0.50	0.11	20.0000		106	60 - 148			
Trichloroethene	19.5200	0.50	0.05	20.0000		97.6	79 - 129			
Trichlorofluoromethane	21.6600	0.50	0.14	20.0000		108	68 - 162			
Vinyl chloride	22.3500	0.50	0.05	20.0000		112	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*23.92*			*25.0000*		*95.7*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*28.09*			*25.0000*		*112*	*62 - 134*			
Surrogate: Dibromofluoromethan	*25.29*			*25.0000*		*101*	*56 - 167*			

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0391 - MSVOA_W (continued)										
LCS (B9B0391-BS1) - Continued					Prepared: 2/18/2019 Analyzed: 2/18/2019					
Surrogate: Toluene-d8	*26.88*			*25.0000*		*108*	*33 - 170*			
LCS Dup (B9B0391-BSD1)					Prepared: 2/18/2019 Analyzed: 2/18/2019					
1,1,1,2-Tetrachloroethane	22.3700	0.50	0.11	20.0000		112	80 - 137	15.1	20	
1,1,1-Trichloroethane	21.3500	0.50	0.18	20.0000		107	75 - 148	13.3	20	
1,1,2,2-Tetrachloroethane	19.0500	0.50	0.17	20.0000		95.2	64 - 118	17.3	20	
1,1,2-Trichloroethane	20.2500	0.50	0.12	20.0000		101	77 - 113	6.11	20	
1,1-Dichloroethane	21.8200	0.50	0.16	20.0000		109	72 - 131	0.967	20	
1,1-Dichloroethene	22.3900	0.50	0.09	20.0000		112	75 - 132	3.98	20	
1,1-Dichloropropene	22.1200	0.50	0.21	20.0000		111	84 - 141	6.20	20	
1,2,3-Trichloropropane	19.7000	0.50	0.16	20.0000		98.5	65 - 111	16.7	20	
1,2,3-Trichlorobenzene	19.7500	0.50	0.12	20.0000		98.8	79 - 117	6.13	20	
1,2,4-Trichlorobenzene	20.0100	0.50	0.12	20.0000		100	78 - 121	5.96	20	
1,2,4-Trimethylbenzene	21.7400	0.50	0.08	20.0000		109	83 - 125	4.56	20	
1,2-Dibromo-3-chloropropane	20.0800	0.50	0.24	20.0000		100	54 - 116	7.38	20	
1,2-Dibromoethane	20.2900	0.50	0.11	20.0000		101	79 - 118	1.89	20	
1,2-Dichlorobenzene	20.1800	0.50	0.09	20.0000		101	82 - 115	2.54	20	
1,2-Dichloroethane	20.0800	0.50	0.19	20.0000		100	76 - 115	4.32	20	
1,2-Dichloropropane	19.4200	0.50	0.36	20.0000		97.1	74 - 113	4.69	20	
1,3,5-Trimethylbenzene	22.4400	0.50	0.05	20.0000		112	83 - 126	5.87	20	
1,3-Dichlorobenzene	20.3100	0.50	0.10	20.0000		102	84 - 118	2.38	20	
1,3-Dichloropropane	20.8100	0.50	0.07	20.0000		104	72 - 116	21.8	20	R
1,4-Dichlorobenzene	20.1400	0.50	0.07	20.0000		101	83 - 112	2.02	20	
2,2-Dichloropropane	22.9600	0.50	0.16	20.0000		115	72 - 150	8.96	20	
2-Chlorotoluene	20.4400	0.50	0.08	20.0000		102	82 - 120	0.885	20	
4-Chlorotoluene	20.6300	0.50	0.08	20.0000		103	81 - 121	0.0485	20	
4-Isopropyltoluene	22.0000	0.50	0.06	20.0000		110	86 - 124	0.589	20	
Benzene	40.6000	0.50	0.03	40.0000		102	81 - 118	2.24	20	
Bromobenzene	19.8300	0.50	0.09	20.0000		99.2	82 - 117	3.28	20	
Bromodichloromethane	19.6700	0.50	0.14	20.0000		98.4	80 - 122	4.79	20	
Bromoform	22.3600	0.50	0.13	20.0000		112	53 - 145	11.5	20	
Bromomethane	19.5900	0.50	0.42	20.0000		98.0	30 - 204	4.39	20	
Carbon tetrachloride	22.1200	0.50	0.19	20.0000		111	77 - 157	4.39	20	
Chlorobenzene	20.2900	0.50	0.07	20.0000		101	86 - 113	1.71	20	
Chloroethane	20.4000	0.50	0.40	20.0000		102	70 - 160	6.41	20	
Chloroform	20.9000	0.50	0.17	20.0000		104	66 - 136	2.86	20	
Chloromethane	18.1000	0.50	0.08	20.0000		90.5	52 - 138	22.2	20	R
cis-1,2-Dichloroethene	21.0400	0.50	0.13	20.0000		105	71 - 128	1.29	20	
cis-1,3-Dichloropropene	23.2300	0.50	0.05	20.0000		116	71 - 123	6.76	20	
Dibromochloromethane	22.2300	0.50	0.14	20.0000		111	78 - 140	22.5	20	R
Dibromomethane	20.0500	0.50	0.10	20.0000		100	78 - 109	6.38	20	
Dichlorodifluoromethane	22.0500	0.50	0.10	20.0000		110	64 - 144	8.26	20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0391 - MSVOA_W (continued)										
LCS Dup (B9B0391-BSD1) - Continued					Prepared: 2/18/2019 Analyzed: 2/18/2019					
Ethylbenzene	40.7000	0.50	0.07	40.0000		102	90 - 116	3.76	20	
Hexachlorobutadiene	21.8200	0.50	0.14	20.0000		109	81 - 129	8.93	20	
Isopropylbenzene	22.6400	0.50	0.05	20.0000		113	83 - 129	4.01	20	
m,p-Xylene	43.1200	1.0	0.08	40.0000		108	88 - 124	8.01	20	
Methylene chloride	20.2200	1.0	0.46	20.0000		101	76 - 137	2.78	20	
n-Butylbenzene	21.3000	0.50	0.05	20.0000		106	83 - 129	3.14	20	
n-Propylbenzene	21.0900	0.50	0.07	20.0000		105	85 - 124	0.523	20	
Naphthalene	18.6700	0.50	0.15	20.0000		93.4	67 - 113	0.483	20	
o-Xylene	42.7500	0.50	0.05	40.0000		107	82 - 129	7.78	20	
sec-Butylbenzene	21.4400	0.50	0.04	20.0000		107	86 - 127	1.67	20	
Styrene	21.4300	0.50	0.06	20.0000		107	83 - 122	7.28	20	
tert-Butylbenzene	21.6600	0.50	0.06	20.0000		108	84 - 130	0.00	20	
Tetrachloroethene	22.0700	0.50	0.07	20.0000		110	87 - 123	7.96	20	
Toluene	39.8200	0.50	0.07	40.0000		99.6	84 - 115	13.1	20	
trans-1,2-Dichloroethene	21.2400	0.50	0.11	20.0000		106	60 - 148	0.614	20	
Trichloroethene	20.4600	0.50	0.05	20.0000		102	79 - 129	4.70	20	
Trichlorofluoromethane	22.9700	0.50	0.14	20.0000		115	68 - 162	5.87	20	
Vinyl chloride	21.1500	0.50	0.05	20.0000		106	73 - 128	5.52	20	
Surrogate: 1,2-Dichloroethane-d4	*26.79*			*25.0000*		*107*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*26.13*			*25.0000*		*105*	*62 - 134*			
Surrogate: Dibromofluoromethan	*27.16*			*25.0000*		*109*	*56 - 167*			
Surrogate: Toluene-d8	*24.11*			*25.0000*		*96.4*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0417 - MSSEMI_W										
Blank (B9B0417-BLK1)						Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	ND	2.0	0.84							
Surrogate: 1,2-Dichlorobenzene-d	*83.32*			*100.000*		*83.3*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*94.39*			*100.000*		*94.4*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*113.1*			*100.000*		*113*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*90.17*			*100.000*		*90.2*	*32 - 106*			
LCS (B9B0417-BS1)						Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	122.210	2.0	0.84	100.000		122	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*69.91*			*100.000*		*69.9*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*90.02*			*100.000*		*90.0*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*99.98*			*100.000*		*100*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*84.34*			*100.000*		*84.3*	*32 - 106*			
Matrix Spike (B9B0417-MS1)			**Source: 1900611-02**			Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	124.250	2.0	0.84	100.000	ND	124	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*71.86*			*100.000*		*71.9*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*90.51*			*100.000*		*90.5*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*110.1*			*100.000*		*110*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*86.45*			*100.000*		*86.4*	*32 - 106*			
Matrix Spike Dup (B9B0417-MSD1)			**Source: 1900611-02**			Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	126.250	2.0	0.84	100.000	ND	126	40 - 159	1.60	20	
Surrogate: 1,2-Dichlorobenzene-d	*74.99*			*100.000*		*75.0*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*94.16*			*100.000*		*94.2*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*109.7*			*100.000*		*110*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*83.90*			*100.000*		*83.9*	*32 - 106*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2019

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0437 - MSSEMI_W										
Blank (B9B0437-BLK1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,4-Dioxane	ND	0.20	0.05							
Surrogate: 1,2-Dichlorobenzene-d	*0.7388*			*1.00000*		*73.9*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.6410*			*1.00000*		*64.1*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7399*			*1.00000*		*74.0*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.188*			*1.00000*		*119*	*6 - 124*			
LCS (B9B0437-BS1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,4-Dioxane	0.881670	0.20	0.05	1.00000		88.2	64 - 129			
Surrogate: 1,2-Dichlorobenzene-d	*0.6462*			*1.00000*		*64.6*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.6112*			*1.00000*		*61.1*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.6995*			*1.00000*		*70.0*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.086*			*1.00000*		*109*	*6 - 124*			
LCS Dup (B9B0437-BSD1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,4-Dioxane	0.904980	0.20	0.05	1.00000		90.5	64 - 129	2.61	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.6604*			*1.00000*		*66.0*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5882*			*1.00000*		*58.8*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7115*			*1.00000*		*71.1*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.132*			*1.00000*		*113*	*6 - 124*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2019

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 2/13/19
Page 1 of ____

PROJECT: Raytheon Main

TASK NO.: 532.30

Project Manager Steve Netto
QA Manager Tyler Evans
Phone 858.455.6500
Fax 858.455.6533

Sampled By: A. DONNELLY, C. DIAZ, R. SANCHEZ

SAMPLE COLLECTION

LAB ID	SAMPLE ID	Date	Time	MATRIX: Groundwater	MATRIX: Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	PRESERVATION: Ice	CONTAINERS: 40-ml VOA	CONTAINERS: 1 L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	ANALYSIS REQUESTED: 1,4 Dioxane 8270 SIM	ANALYSIS REQUESTED: 1,4-Dioxane 8270 MOD	Expected Concetration Range (ppb) for VOA's: 0 - 10	10- 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 hr TAT	Standard TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1900597-01	TB-021319	2/13/19	0800		X	X	X	3		X			X						X			Report J Flags
-02	MW-15		0924	X		X	X	3		X			X						X			
-03	EW-01		1215	X		X	X	3		X				X					X			
	↓		↓	X			X		1			X							X			
-04	MW-21		1235	X		X	X	3		X					X				X			
	↓		↓	X			X		1			X							X			
-05	MW-34C		1339	X		X	X	3		X			X						X			
	↓		↓	X			X		1		X								X			
-06	MW-34B		1416	X		X	X	3		X				X					X			
	↓		↓	X			X		1			X							X			
-07	MW-24		1600	X		X	X	3		X			X						X			
	↓	↓	↓	X			X		1		X								X			

Total number of containers per analysis:

Total No. of Containers: ____

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
A Donnelly / H+A	2/13/19 1700	J. Arceo	2/13/19 1700
J. Arceo / ATL	2/13/19 1754	Steph Bren	2/13/19 1754

- ☐ No. of containers correct
- ☐ Received in good condition
- ☐ Custody seals secure
- ☐ Conforms to COC document

2.6 Temperature on receipt
ice

Laboratory
ATL
Attn: Rachelle Arada
3257 Walnut Ave
Signal Hill, CA 90755
562-989-4045

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.5400
snetto@hargis.com

Instructions
1. Fill out form completely and sign only after verified for completeness
Complete in ballpoint pen. Draw one line through error, initial and date correction
Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
Note applicable preservatives, special instructions, and deviations from typical environmental samples.
Consult project QA documents for specific instructions.

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 2-13-19
Page 2 of 2

PROJECT: Raytheon Main

TASK NO.: 532.30

Project Manager Steve Netto
QA Manager Tyler Evans
Phone 858.455.6500
Fax 858.455.6533

Sampled By: N. Schell + DJ Seelee

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Groundwater	MATRIX: Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	PRESERVATION: Ice	CONTAINERS: 40-ml VOA	CONTAINERS: 1 L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	ANALYSIS REQUESTED: 1,4 Dioxane 8270 SIM	ANALYSIS REQUESTED: 1,4-Dioxane 8270 MOD	Expected Concetration Range (ppb) for VOA's: 0 - 10	SPECIAL HANDLING: Standard TAT	SPECIAL HANDLING: Level IV Data Validation Requested	SPECIAL HANDLING: MS/MSD Requested	REMARKS
1900597-08	MW-35C	2/13/18	0920	X		X	X	3		X			X	X			Report J Flags
				X			X		1		X						
-09	MW-37		1045	X		X	X	3		X			X	X			
				X			X		1		X						
-10	MW-33_1.55V		1310	X		X	X	3		X			X	X			
				X			X		1		X						
-11	MW-33		1335	X		X	X	3		X			X	X			
				X			X		1		X						
-12	MW-32C		1550	X		X	X	3		X			X	X			
				X			X		1		X						

Total number of containers per analysis:

Total No. of Containers:

Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
A Dalley / H+A	2/13/19 1720	[signature] ATL	2/13/19 1720
Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
[signature] ATL	2/13/19 1754	[signature]	2/13/19 1754

- [ ] No. of containers correct
- [ ] Received in good condition
- [ ] Custody seals secure
- [ ] Conforms to COC document

_____ Temperature on receipt

Laboratory
ATL
Attn: Rachelle Arada
3257 Walnut Ave
Signal Hill, CA 90755
562-989-4045

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.5400
snetto@hargis.com

Instructions

Fill out form completely and sign only after verified for completeness
Complete in ballpoint pen. Draw one line through error, initial and date correction
Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
Note applicable preservatives, special instructions, and deviations from typical environmental samples.
Consult project QA documents for specific instructions.

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WORK ORDER NUMBER: 19-02-1107

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Hargis + Associates, Inc.

Client Project Name: Raytheon Main / 532.30

Attention: Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122-6215

Approved for release on 02/25/2019 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 19-02-1107

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Work Order Narrative

Work Order: 19-02-1107 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 02/14/19. They were assigned to Work Order 19-02-1107.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	Hargis + Associates, Inc. 9171 Towne Centre Drive, Suite 375 San Diego, CA 92122-6215	Work Order:	19-02-1107
		Project Name:	Raytheon Main / 532.30
		PO Number:	
		Date/Time Received:	02/14/19 17:35
		Number of Containers:	6
Attn:	Steve Netto		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
TB-021419B	19-02-1107-1	02/14/19 08:05	2	Aqueous
MW-32B	19-02-1107-2	02/14/19 11:00	4	Aqueous

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Detections Summary

Client:	Hargis + Associates, Inc. 9171 Towne Centre Drive, Suite 375 San Diego, CA 92122-6215	Work Order:	19-02-1107
		Project Name:	Raytheon Main / 532.30
		Received:	02/14/19
Attn:	Steve Netto		Page 1 of 1

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MW-32B (19-02-1107-2)						
1,1-Dichloroethane	1.2		1.0	ug/L	EPA 8260B	EPA 5030C
1,1-Dichloroethene	190		1.0	ug/L	EPA 8260B	EPA 5030C
c-1,2-Dichloroethene	3.6		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	44		1.0	ug/L	EPA 8260B	EPA 5030C
1,4-Dioxane	2.9		1.0	ug/L	EPA 8270C (M) SIM Isotope Dil	EPA 3510C

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Project: Raytheon Main / 532.30

Date Received: 02/14/19
Work Order: 19-02-1107
Preparation: EPA 3510C
Method: EPA 8270C (M) SIM Isotope Dil
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-32B	**19-02-1107-2-D**	**02/14/19 11:00**	**Aqueous**	**GC/MS DDD**	**02/18/19**	**02/18/19 14:27**	**190218L03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
1,4-Dioxane	2.9	1.0	0.18	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Nitrobenzene-d5	71	56-123	
1,4-Dioxane-d8(IDS-IS)	32	30-120	

Method Blank	099-16-216-1627	N/A	Aqueous	GC/MS DDD	02/18/19	02/18/19 11:33	190218L03

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
1,4-Dioxane	ND	1.0	0.18	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Nitrobenzene-d5	64	56-123	
1,4-Dioxane-d8(IDS-IS)	48	30-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 02/14/19
Work Order: 19-02-1107
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Main / 532.30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-021419B	**19-02-1107-1-B**	**02/14/19 08:05**	**Aqueous**	**GC/MS JJ**	**02/22/19**	**02/22/19 13:47**	**190222L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	1.0	0.14	1.00	
Bromobenzene	ND	1.0	0.19	1.00	
Bromochloromethane	ND	2.0	0.46	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	1.8	1.00	
Bromomethane	ND	50	19	1.00	
2-Butanone	ND	20	6.6	1.00	
n-Butylbenzene	ND	1.0	0.30	1.00	
sec-Butylbenzene	ND	1.0	0.19	1.00	
tert-Butylbenzene	ND	1.0	0.25	1.00	
Carbon Disulfide	ND	10	0.70	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.16	1.00	
Chloroethane	ND	5.0	0.76	1.00	
Chloroform	ND	1.0	0.18	1.00	
Chloromethane	ND	10	0.50	1.00	
2-Chlorotoluene	ND	1.0	0.16	1.00	
4-Chlorotoluene	ND	1.0	0.18	1.00	
Dibromochloromethane	ND	2.0	0.46	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.1	1.00	
1,2-Dibromoethane	ND	1.0	0.27	1.00	
Dibromomethane	ND	1.0	0.30	1.00	
1,2-Dichlorobenzene	ND	1.0	0.14	1.00	
1,3-Dichlorobenzene	ND	1.0	0.19	1.00	
1,4-Dichlorobenzene	ND	1.0	0.24	1.00	
Dichlorodifluoromethane	ND	5.0	0.28	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.19	1.00	
1,1-Dichloroethene	ND	1.0	0.22	1.00	
c-1,2-Dichloroethene	ND	1.0	0.27	1.00	
t-1,2-Dichloroethene	ND	1.0	0.40	1.00	
1,2-Dichloropropane	ND	1.0	0.20	1.00	
1,3-Dichloropropane	ND	1.0	0.14	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 02/14/19
Work Order: 19-02-1107
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Main / 532.30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.44	1.00	
1,1-Dichloropropene	ND	1.0	0.17	1.00	
c-1,3-Dichloropropene	ND	0.50	0.20	1.00	
t-1,3-Dichloropropene	ND	0.50	0.23	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	5.3	1.00	
Isopropylbenzene	ND	1.0	0.16	1.00	
p-Isopropyltoluene	ND	1.0	0.22	1.00	
Methylene Chloride	ND	10	4.0	1.00	
4-Methyl-2-Pentanone	ND	10	0.46	1.00	
Naphthalene	ND	10	5.1	1.00	
n-Propylbenzene	ND	1.0	0.18	1.00	
Styrene	ND	1.0	0.15	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	0.43	1.00	
1,1,2,2-Tetrachloroethane	ND	10	0.17	1.00	
Tetrachloroethene	ND	1.0	0.24	1.00	
Toluene	ND	1.0	0.13	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.28	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.34	1.00	
1,1,1-Trichloroethane	ND	1.0	0.31	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.62	1.00	
1,1,2-Trichloroethane	ND	1.0	0.22	1.00	
Trichloroethene	ND	1.0	0.24	1.00	
Trichlorofluoromethane	ND	10	0.28	1.00	
1,2,3-Trichloropropane	ND	5.0	0.22	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.21	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.17	1.00	
Vinyl Acetate	ND	10	2.9	1.00	
Vinyl Chloride	ND	0.50	0.16	1.00	
p/m-Xylene	ND	2.0	0.31	1.00	
o-Xylene	ND	1.0	0.15	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	77-120	
Dibromofluoromethane	105	80-128	
1,2-Dichloroethane-d4	104	80-129	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 02/14/19
Work Order: 19-02-1107
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Main / 532.30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-32B	**19-02-1107-2-B**	**02/14/19 11:00**	**Aqueous**	**GC/MS JJ**	**02/22/19**	**02/22/19 14:14**	**190222L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	1.0	0.14	1.00	
Bromobenzene	ND	1.0	0.19	1.00	
Bromochloromethane	ND	2.0	0.46	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	1.8	1.00	
Bromomethane	ND	50	19	1.00	
2-Butanone	ND	20	6.6	1.00	
n-Butylbenzene	ND	1.0	0.30	1.00	
sec-Butylbenzene	ND	1.0	0.19	1.00	
tert-Butylbenzene	ND	1.0	0.25	1.00	
Carbon Disulfide	ND	10	0.70	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.16	1.00	
Chloroethane	ND	5.0	0.76	1.00	
Chloroform	ND	1.0	0.18	1.00	
Chloromethane	ND	10	0.50	1.00	
2-Chlorotoluene	ND	1.0	0.16	1.00	
4-Chlorotoluene	ND	1.0	0.18	1.00	
Dibromochloromethane	ND	2.0	0.46	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.1	1.00	
1,2-Dibromoethane	ND	1.0	0.27	1.00	
Dibromomethane	ND	1.0	0.30	1.00	
1,2-Dichlorobenzene	ND	1.0	0.14	1.00	
1,3-Dichlorobenzene	ND	1.0	0.19	1.00	
1,4-Dichlorobenzene	ND	1.0	0.24	1.00	
Dichlorodifluoromethane	ND	5.0	0.28	1.00	
1,1-Dichloroethane	1.2	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.19	1.00	
1,1-Dichloroethene	190	1.0	0.22	1.00	
c-1,2-Dichloroethene	3.6	1.0	0.27	1.00	
t-1,2-Dichloroethene	ND	1.0	0.40	1.00	
1,2-Dichloropropane	ND	1.0	0.20	1.00	
1,3-Dichloropropane	ND	1.0	0.14	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 02/14/19
Work Order: 19-02-1107
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Main / 532.30

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.44	1.00	
1,1-Dichloropropene	ND	1.0	0.17	1.00	
c-1,3-Dichloropropene	ND	0.50	0.20	1.00	
t-1,3-Dichloropropene	ND	0.50	0.23	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	5.3	1.00	
Isopropylbenzene	ND	1.0	0.16	1.00	
p-Isopropyltoluene	ND	1.0	0.22	1.00	
Methylene Chloride	ND	10	4.0	1.00	
4-Methyl-2-Pentanone	ND	10	0.46	1.00	
Naphthalene	ND	10	5.1	1.00	
n-Propylbenzene	ND	1.0	0.18	1.00	
Styrene	ND	1.0	0.15	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	0.43	1.00	
1,1,2,2-Tetrachloroethane	ND	10	0.17	1.00	
Tetrachloroethene	ND	1.0	0.24	1.00	
Toluene	ND	1.0	0.13	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.28	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.34	1.00	
1,1,1-Trichloroethane	ND	1.0	0.31	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.62	1.00	
1,1,2-Trichloroethane	ND	1.0	0.22	1.00	
Trichloroethene	44	1.0	0.24	1.00	
Trichlorofluoromethane	ND	10	0.28	1.00	
1,2,3-Trichloropropane	ND	5.0	0.22	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.21	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.17	1.00	
Vinyl Acetate	ND	10	2.9	1.00	
Vinyl Chloride	ND	0.50	0.16	1.00	
p/m-Xylene	ND	2.0	0.31	1.00	
o-Xylene	ND	1.0	0.15	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	77-120	
Dibromofluoromethane	103	80-128	
1,2-Dichloroethane-d4	102	80-129	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 02/14/19
Work Order: 19-02-1107
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: Raytheon Main / 532.30

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-28085**	**N/A**	**Aqueous**	**GC/MS JJ**	**02/22/19**	**02/22/19 10:59**	**190222L006**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	1.0	0.14	1.00	
Bromobenzene	ND	1.0	0.19	1.00	
Bromochloromethane	ND	2.0	0.46	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	1.8	1.00	
Bromomethane	ND	50	19	1.00	
2-Butanone	ND	20	6.6	1.00	
n-Butylbenzene	ND	1.0	0.30	1.00	
sec-Butylbenzene	ND	1.0	0.19	1.00	
tert-Butylbenzene	ND	1.0	0.25	1.00	
Carbon Disulfide	ND	10	0.70	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.16	1.00	
Chloroethane	ND	5.0	0.76	1.00	
Chloroform	ND	1.0	0.18	1.00	
Chloromethane	ND	10	0.50	1.00	
2-Chlorotoluene	ND	1.0	0.16	1.00	
4-Chlorotoluene	ND	1.0	0.18	1.00	
Dibromochloromethane	ND	2.0	0.46	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	2.1	1.00	
1,2-Dibromoethane	ND	1.0	0.27	1.00	
Dibromomethane	ND	1.0	0.30	1.00	
1,2-Dichlorobenzene	ND	1.0	0.14	1.00	
1,3-Dichlorobenzene	ND	1.0	0.19	1.00	
1,4-Dichlorobenzene	ND	1.0	0.24	1.00	
Dichlorodifluoromethane	ND	5.0	0.28	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.19	1.00	
1,1-Dichloroethene	ND	1.0	0.22	1.00	
c-1,2-Dichloroethene	ND	1.0	0.27	1.00	
t-1,2-Dichloroethene	ND	1.0	0.40	1.00	
1,2-Dichloropropane	ND	1.0	0.20	1.00	
1,3-Dichloropropane	ND	1.0	0.14	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Project: Raytheon Main / 532.30

Date Received: 02/14/19
Work Order: 19-02-1107
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.44	1.00	
1,1-Dichloropropene	ND	1.0	0.17	1.00	
c-1,3-Dichloropropene	ND	0.50	0.20	1.00	
t-1,3-Dichloropropene	ND	0.50	0.23	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	5.3	1.00	
Isopropylbenzene	ND	1.0	0.16	1.00	
p-Isopropyltoluene	ND	1.0	0.22	1.00	
Methylene Chloride	ND	10	4.0	1.00	
4-Methyl-2-Pentanone	ND	10	0.46	1.00	
Naphthalene	ND	10	5.1	1.00	
n-Propylbenzene	ND	1.0	0.18	1.00	
Styrene	ND	1.0	0.15	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	0.43	1.00	
1,1,2,2-Tetrachloroethane	ND	10	0.17	1.00	
Tetrachloroethene	ND	1.0	0.24	1.00	
Toluene	ND	1.0	0.13	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.28	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.34	1.00	
1,1,1-Trichloroethane	ND	1.0	0.31	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.62	1.00	
1,1,2-Trichloroethane	ND	1.0	0.22	1.00	
Trichloroethene	ND	1.0	0.24	1.00	
Trichlorofluoromethane	ND	10	0.28	1.00	
1,2,3-Trichloropropane	ND	5.0	0.22	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.21	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.17	1.00	
Vinyl Acetate	ND	10	2.9	1.00	
Vinyl Chloride	ND	0.50	0.16	1.00	
p/m-Xylene	ND	2.0	0.31	1.00	
o-Xylene	ND	1.0	0.15	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	77-120	
Dibromofluoromethane	103	80-128	
1,2-Dichloroethane-d4	102	80-129	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Hargis + Associates, Inc.		Date Received:	02/14/19
9171 Towne Centre Drive, Suite 375		Work Order:	19-02-1107
San Diego, CA 92122-6215		Preparation:	EPA 3510C
		Method:	EPA 8270C (M) SIM Isotope Dil
Project: Raytheon Main / 532.30			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-1066-3	**Sample**	**Aqueous**	**GC/MS DDD**	**02/18/19**	**02/18/19 12:52**	**190218S03**
19-02-1066-3	**Matrix Spike**	**Aqueous**	**GC/MS DDD**	**02/18/19**	**02/18/19 12:04**	**190218S03**
19-02-1066-3	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS DDD**	**02/18/19**	**02/18/19 12:21**	**190218S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	ND	20.00	20.37	102	20.27	101	50-130	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Hargis + Associates, Inc.		Date Received:	02/14/19
9171 Towne Centre Drive, Suite 375		Work Order:	19-02-1107
San Diego, CA 92122-6215		Preparation:	EPA 3510C
		Method:	EPA 8270C (M) SIM Isotope Dil
Project: Raytheon Main / 532.30			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-216-1627	**LCS**	**Aqueous**	**GC/MS DDD**	**02/18/19**	**02/18/19 11:49**	**190218L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
1,4-Dioxane	20.00	19.78	99	50-130	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Project: Raytheon Main / 532.30

Date Received: 02/14/19
Work Order: 19-02-1107
Preparation: EPA 5030C
Method: EPA 8260B

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-28085	**LCS**	**Aqueous**	**GC/MS JJ**	**02/22/19**	**02/22/19 09:36**	**190222L006**
099-14-001-28085	**LCSD**	**Aqueous**	**GC/MS JJ**	**02/22/19**	**02/22/19 10:04**	**190222L006**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	50.00	43.39	87	47.51	95	53-137	39-151	9	0-21	
Benzene	50.00	55.65	111	56.09	112	79-121	72-128	1	0-20	
Bromobenzene	50.00	54.15	108	54.88	110	80-120	73-127	1	0-20	
Bromochloromethane	50.00	56.49	113	54.20	108	80-122	73-129	4	0-20	
Bromodichloromethane	50.00	56.98	114	57.23	114	80-124	73-131	0	0-20	
Bromoform	50.00	50.54	101	50.89	102	73-127	64-136	1	0-20	
Bromomethane	50.00	62.16	124	56.50	113	50-150	33-167	10	0-26	
2-Butanone	50.00	46.72	93	49.85	100	60-126	49-137	6	0-20	
n-Butylbenzene	50.00	56.26	113	56.82	114	72-138	61-149	1	0-20	
sec-Butylbenzene	50.00	57.26	115	57.45	115	77-131	68-140	0	0-20	
tert-Butylbenzene	50.00	56.74	113	56.27	113	80-125	72-132	1	0-20	
Carbon Disulfide	50.00	59.59	119	59.67	119	50-150	33-167	0	0-22	
Carbon Tetrachloride	50.00	61.62	123	61.86	124	65-143	52-156	0	0-20	
Chlorobenzene	50.00	52.84	106	53.50	107	80-120	73-127	1	0-20	
Chloroethane	50.00	48.17	96	48.19	96	62-128	51-139	0	0-20	
Chloroform	50.00	55.15	110	55.00	110	80-120	73-127	0	0-20	
Chloromethane	50.00	51.57	103	52.10	104	43-133	28-148	1	0-20	
2-Chlorotoluene	50.00	54.11	108	54.73	109	80-121	73-128	1	0-20	
4-Chlorotoluene	50.00	54.79	110	55.28	111	80-120	73-127	1	0-20	
Dibromochloromethane	50.00	57.49	115	57.34	115	80-123	73-130	0	0-20	
1,2-Dibromo-3-Chloropropane	50.00	45.18	90	46.92	94	66-126	56-136	4	0-20	
1,2-Dibromoethane	50.00	54.88	110	55.36	111	80-120	73-127	1	0-20	
Dibromomethane	50.00	54.38	109	55.25	111	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	54.26	109	54.82	110	80-120	73-127	1	0-20	
1,3-Dichlorobenzene	50.00	54.22	108	54.61	109	80-120	73-127	1	0-20	
1,4-Dichlorobenzene	50.00	53.02	106	54.21	108	80-120	73-127	2	0-20	
Dichlorodifluoromethane	50.00	52.20	104	51.17	102	50-150	33-167	2	0-30	
1,1-Dichloroethane	50.00	51.71	103	53.14	106	72-126	63-135	3	0-20	
1,2-Dichloroethane	50.00	49.46	99	49.89	100	76-120	69-127	1	0-20	
1,1-Dichloroethene	50.00	63.54	127	64.06	128	66-132	55-143	1	0-20	
c-1,2-Dichloroethene	50.00	58.94	118	59.03	118	78-120	71-127	0	0-20	
t-1,2-Dichloroethene	50.00	60.69	121	60.84	122	66-132	55-143	0	0-20	
1,2-Dichloropropane	50.00	56.77	114	57.00	114	80-120	73-127	0	0-20	
1,3-Dichloropropane	50.00	54.77	110	55.04	110	80-120	73-127	1	0-20	
2,2-Dichloropropane	50.00	57.99	116	57.61	115	50-150	33-167	1	0-20	
1,1-Dichloropropene	50.00	57.76	116	57.45	115	75-123	67-131	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Hargis + Associates, Inc.		Date Received:	02/14/19
9171 Towne Centre Drive, Suite 375		Work Order:	19-02-1107
San Diego, CA 92122-6215		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Raytheon Main / 532.30			Page 3 of 3

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
c-1,3-Dichloropropene	50.00	55.54	111	55.87	112	77-131	68-140	1	0-20	
t-1,3-Dichloropropene	50.00	46.08	92	46.00	92	76-136	66-146	0	0-20	
Ethylbenzene	50.00	55.75	111	56.20	112	80-120	73-127	1	0-20	
2-Hexanone	50.00	45.34	91	48.20	96	63-123	53-133	6	0-20	
Isopropylbenzene	50.00	55.74	111	56.46	113	80-128	72-136	1	0-20	
p-Isopropyltoluene	50.00	56.74	113	56.89	114	73-133	63-143	0	0-20	
Methylene Chloride	50.00	56.55	113	56.31	113	61-133	49-145	0	0-27	
4-Methyl-2-Pentanone	50.00	46.67	93	49.13	98	65-125	55-135	5	0-20	
Naphthalene	50.00	45.67	91	48.09	96	69-129	59-139	5	0-20	
n-Propylbenzene	50.00	56.33	113	57.11	114	80-128	72-136	1	0-20	
Styrene	50.00	55.15	110	56.02	112	80-126	72-134	2	0-20	
1,1,1,2-Tetrachloroethane	50.00	59.78	120	59.93	120	80-129	72-137	0	0-20	
1,1,2,2-Tetrachloroethane	50.00	53.09	106	53.64	107	74-122	66-130	1	0-20	
Tetrachloroethene	50.00	49.97	100	55.89	112	55-139	41-153	11	0-23	
Toluene	50.00	53.74	107	54.69	109	80-120	73-127	2	0-20	
1,2,3-Trichlorobenzene	50.00	50.83	102	51.90	104	72-132	62-142	2	0-20	
1,2,4-Trichlorobenzene	50.00	53.16	106	54.68	109	74-134	64-144	3	0-20	
1,1,1-Trichloroethane	50.00	55.61	111	55.70	111	76-124	68-132	0	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	50.00	64.58	129	62.99	126	54-150	38-166	2	0-30	
1,1,2-Trichloroethane	50.00	56.98	114	57.51	115	80-120	73-127	1	0-20	
Trichloroethene	50.00	56.15	112	57.00	114	79-121	72-128	2	0-20	
Trichlorofluoromethane	50.00	55.85	112	54.26	109	72-132	62-142	3	0-20	
1,2,3-Trichloropropane	50.00	49.57	99	50.97	102	75-123	67-131	3	0-20	
1,2,4-Trimethylbenzene	50.00	56.78	114	56.79	114	74-128	65-137	0	0-20	
1,3,5-Trimethylbenzene	50.00	55.84	112	56.41	113	77-131	68-140	1	0-20	
Vinyl Acetate	50.00	52.63	105	52.64	105	50-150	33-167	0	0-20	
Vinyl Chloride	50.00	51.16	102	51.17	102	63-129	52-140	0	0-20	
p/m-Xylene	100.0	108.1	108	109.8	110	80-122	73-129	2	0-20	
o-Xylene	50.00	54.82	110	55.28	111	80-128	72-136	1	0-20	

Total number of LCS compounds: 65
Total number of ME compounds: 0
Total number of ME compounds allowed: 3
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-02-1107 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8260B	EPA 5030C	1120	GC/MS JJ	2
EPA 8270C (M) SIM Isotope Dil	EPA 3510C	1117	GC/MS DDD	1

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Glossary of Terms and Qualifiers

Work Order: 19-02-1107 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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HARGIS+ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

19-02-1107

Date: 2/14/19
Page 1 of 1

PROJECT: Raytheon Main

TASK NO.: 532.30

Project Manager: Steve Netto
QA Manager: Tyler Evans
Phone: 858.455.6500
Fax: 858.455.6533

Sampled By: A. DONNELLY, C. DIAZ

SAMPLE COLLECTION

LAB ID	SAMPLE ID	Date	Time	MATRIX: Groundwater	MATRIX: Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	PRESERVATION: Ice	CONTAINERS: 40-ml VOA	CONTAINERS: 500mL Amber	CONTAINERS: 1L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	ANALYSIS REQUESTED: 1,4 Dioxane 8270 SIM	ANALYSIS REQUESTED: 1,4-Dioxane 8270 MOD	Expected Concetration Range (ppb) for VOA's: 0 - 10	10 - 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 hr TAT	Standard TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1	TB-021419B	2/14/19	0805		X	X	X	2			X			X						X			Report J Flags
2	MW-32B	↓	1100	X		X	X	3			X					X				X			
3	↓	↓	↓	X			X			1			X							X			

Total number of containers per analysis:

Total No. of Containers:

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
A Donnelly / H+A	2/14/19 1700	Jeff [illegible] DCS ECI	2/14/19 1700
Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
Jeff [illegible] DCS ECI	2/14/19 1735	[illegible] EC	2/14/19 1735

- [ ] No. of containers correct
- [ ] Received in good condition
- [ ] Custody seals secure
- [ ] Conforms to COC document

Laboratory
Eurofins Calscience, Inc.
Attn: Virendra Patel
7440 Lincoln Way
Garden Grove, CA 92891
714-895-5494

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.5400
snetto@hargis.com

Temperature on receipt

Instructions

1. Fill out form completely and sign only after verified for completeness
2. Complete in ballpoint pen. Draw one line through error, initial and date correction
3. Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

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WORK ORDER NUMBER: 19-02-1107

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Hargis

DATE: 02/14/2019

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2.2 °C (w/ CF): 1.7 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 1091

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1091

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: TB

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: N/A)

Aqueous: ☐ VOA ☑ VOAh (12) ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☑ 1AGB ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: TB

Reviewed by: VM

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ADVANCED TECHNOLOGY LABORATORIES

February 22, 2019

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1900611
Client Reference : Raytheon Main, 532.30

Enclosed are the results for sample(s) received on February 14, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-021419A	1900611-01	Lab prepared water	2/14/19 8:00	2/14/19 17:00
MW-31	1900611-02	Groundwater	2/14/19 11:20	2/14/19 17:00
P-07	1900611-03	Groundwater	2/14/19 16:30	2/14/19 17:00
MW-32A	1900611-04	Groundwater	2/14/19 9:20	2/14/19 17:00
MW-32B_1.5SV	1900611-05	Groundwater	2/14/19 10:25	2/14/19 17:00
MW-32B	1900611-06	Groundwater	2/14/19 11:00	2/14/19 17:00
MW-3200B	1900611-07	Groundwater	2/14/19 11:01	2/14/19 17:00
MW-27	1900611-08	Groundwater	2/14/19 13:45	2/14/19 17:00
MW-41	1900611-09	Groundwater	2/14/19 14:40	2/14/19 17:00

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID TB-021419A

Lab ID: 1900611-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,1,1-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,1,2-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,1-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,1-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,1-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,2,3-Trichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,2-Dibromoethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,2-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,2-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,3-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,3-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
1,4-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
2,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
2-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
4-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
4-Isopropyltoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Benzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Bromobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Bromodichloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Bromoform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Bromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Carbon tetrachloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Chlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Chloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Chloroform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Chloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Dibromochloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID TB-021419A

Lab ID: 1900611-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Dichlorodifluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Ethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Hexachlorobutadiene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Isopropylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
m,p-Xylene	ND	1.0	1	B9B0391	02/18/2019	02/18/19 13:42	
Methylene chloride	ND	1.0	1	B9B0391	02/18/2019	02/18/19 13:42	
n-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
n-Propylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Naphthalene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
o-Xylene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
sec-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Styrene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
tert-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Tetrachloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Toluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Trichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Trichlorofluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Vinyl chloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 13:42	
Surrogate: 1,2-Dichloroethane-d4	*107 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 13:42*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 13:42*	
Surrogate: Dibromofluoromethane	*101 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 13:42*	
Surrogate: Toluene-d8	*110 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 13:42*	

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Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID MW-31

Lab ID: 1900611-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,1,1-Trichloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,1,2-Trichloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,1-Dichloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,1-Dichloroethene	**57**	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,1-Dichloropropene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,2,3-Trichloropropane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,2-Dibromoethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,2-Dichlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,2-Dichloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,2-Dichloropropane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,3-Dichlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,3-Dichloropropane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
1,4-Dichlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
2,2-Dichloropropane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
2-Chlorotoluene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
4-Chlorotoluene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
4-Isopropyltoluene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Benzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Bromobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Bromodichloromethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Bromoform	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Bromomethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Carbon tetrachloride	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Chlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Chloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Chloroform	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Chloromethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Dibromochloromethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
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Client Sample ID MW-31

Lab ID: 1900611-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Dichlorodifluoromethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Ethylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Hexachlorobutadiene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Isopropylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
m,p-Xylene	ND	1.0	1	B9B0426	02/19/2019	02/19/19 16:11	
Methylene chloride	ND	1.0	1	B9B0426	02/19/2019	02/19/19 16:11	
n-Butylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
n-Propylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Naphthalene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
o-Xylene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
sec-Butylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Styrene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
tert-Butylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Tetrachloroethene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Toluene	**0.70**	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Trichloroethene	**6.0**	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Trichlorofluoromethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Vinyl chloride	ND	0.50	1	B9B0426	02/19/2019	02/19/19 16:11	
Surrogate: 1,2-Dichloroethane-d4	*113 %*	*57 - 152*		B9B0426	02/19/2019	*02/19/19 16:11*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*		B9B0426	02/19/2019	*02/19/19 16:11*	
Surrogate: Dibromofluoromethane	*104 %*	*56 - 167*		B9B0426	02/19/2019	*02/19/19 16:11*	
Surrogate: Toluene-d8	*109 %*	*33 - 170*		B9B0426	02/19/2019	*02/19/19 16:11*	

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San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-31

Lab ID: 1900611-02

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	2.0	1	B9B0417	02/18/2019	02/19/19 12:58	
Surrogate: 1,2-Dichlorobenzene-d4	*70.2 %*		*34 - 188*		B9B0417	02/18/2019	*02/19/19 12:58*	
Surrogate: 2-Fluorobiphenyl	*78.8 %*		*39 - 108*		B9B0417	02/18/2019	*02/19/19 12:58*	
Surrogate: 4-Terphenyl-d14	*116 %*		*71 - 131*		B9B0417	02/18/2019	*02/19/19 12:58*	
Surrogate: Nitrobenzene-d5	*74.8 %*		*32 - 106*		B9B0417	02/18/2019	*02/19/19 12:58*	

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9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID P-07

Lab ID: 1900611-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,1,1-Trichloroethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,1,2,2-Tetrachloroethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,1,2-Trichloroethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,1-Dichloroethane	**16**	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,1-Dichloroethene	**1400**	10	20	B9B0426	02/19/2019	02/19/19 20:41	
1,1-Dichloropropene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,2,3-Trichloropropane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,2,3-Trichlorobenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,2,4-Trichlorobenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,2,4-Trimethylbenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,2-Dibromo-3-chloropropane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,2-Dibromoethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,2-Dichlorobenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,2-Dichloroethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,2-Dichloropropane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,3,5-Trimethylbenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,3-Dichlorobenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,3-Dichloropropane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
1,4-Dichlorobenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
2,2-Dichloropropane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
2-Chlorotoluene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
4-Chlorotoluene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
4-Isopropyltoluene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Benzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Bromobenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Bromodichloromethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Bromoform	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Bromomethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Carbon tetrachloride	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Chlorobenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Chloroethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Chloroform	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Chloromethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
cis-1,2-Dichloroethene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
cis-1,3-Dichloropropene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Dibromochloromethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	

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Client Sample ID P-07

Lab ID: 1900611-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Dichlorodifluoromethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Ethylbenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Hexachlorobutadiene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Isopropylbenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
m,p-Xylene	ND	10	10	B9B0426	02/19/2019	02/19/19 20:17	
Methylene chloride	ND	10	10	B9B0426	02/19/2019	02/19/19 20:17	
n-Butylbenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
n-Propylbenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Naphthalene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
o-Xylene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
sec-Butylbenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Styrene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
tert-Butylbenzene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Tetrachloroethene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Toluene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
trans-1,2-Dichloroethene	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Trichloroethene	**6.1**	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Trichlorofluoromethane	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Vinyl chloride	ND	5.0	10	B9B0426	02/19/2019	02/19/19 20:17	
Surrogate: 1,2-Dichloroethane-d4	*107 %*	*57 - 152*		B9B0426	02/19/2019	*02/19/19 20:41*	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*57 - 152*		B9B0426	02/19/2019	*02/19/19 20:17*	
Surrogate: 4-Bromofluorobenzene	*101 %*	*62 - 134*		B9B0426	02/19/2019	*02/19/19 20:17*	
Surrogate: 4-Bromofluorobenzene	*107 %*	*62 - 134*		B9B0426	02/19/2019	*02/19/19 20:41*	
Surrogate: Dibromofluoromethane	*97.0 %*	*56 - 167*		B9B0426	02/19/2019	*02/19/19 20:17*	
Surrogate: Dibromofluoromethane	*99.0 %*	*56 - 167*		B9B0426	02/19/2019	*02/19/19 20:41*	
Surrogate: Toluene-d8	*111 %*	*33 - 170*		B9B0426	02/19/2019	*02/19/19 20:41*	
Surrogate: Toluene-d8	*103 %*	*33 - 170*		B9B0426	02/19/2019	*02/19/19 20:17*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID P-07

Lab ID: 1900611-03

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**1700**	20	10	B9B0417	02/18/2019	02/20/19 13:43	
Surrogate: 1,2-Dichlorobenzene-d4	*63.0 %*		*34 - 188*		B9B0417	02/18/2019	*02/20/19 13:43*	
Surrogate: 2-Fluorobiphenyl	*69.7 %*		*39 - 108*		B9B0417	02/18/2019	*02/20/19 13:43*	
Surrogate: 4-Terphenyl-d14	*90.0 %*		*71 - 131*		B9B0417	02/18/2019	*02/20/19 13:43*	
Surrogate: Nitrobenzene-d5	*66.7 %*		*32 - 106*		B9B0417	02/18/2019	*02/20/19 13:43*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID MW-32A

Lab ID: 1900611-04

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,1,1-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,1,2-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,1-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,1-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,1-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,2,3-Trichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,2-Dibromoethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,2-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,2-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,3-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,3-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
1,4-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
2,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
2-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
4-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
4-Isopropyltoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Benzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Bromobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Bromodichloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Bromoform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Bromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Carbon tetrachloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Chlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Chloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Chloroform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Chloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Dibromochloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-32A

Lab ID: 1900611-04

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Dichlorodifluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Ethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Hexachlorobutadiene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Isopropylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
m,p-Xylene	ND	1.0	1	B9B0391	02/18/2019	02/18/19 19:00	
Methylene chloride	ND	1.0	1	B9B0391	02/18/2019	02/18/19 19:00	
n-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
n-Propylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Naphthalene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
o-Xylene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
sec-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Styrene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
tert-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Tetrachloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Toluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Trichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Trichlorofluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Vinyl chloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:00	
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 19:00*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 19:00*	
Surrogate: Dibromofluoromethane	*97.2 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 19:00*	
Surrogate: Toluene-d8	*110 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 19:00*	

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San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-32A

Lab ID: 1900611-04

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0437	02/19/2019	02/19/19 18:32	
Surrogate: 1,2-Dichlorobenzene-d4	*69.5 %*		*22 - 117*		B9B0437	02/19/2019	*02/19/19 18:32*	
Surrogate: 2-Fluorobiphenyl	*63.9 %*		*20 - 131*		B9B0437	02/19/2019	*02/19/19 18:32*	
Surrogate: 4-Terphenyl-d14	*69.7 %*		*24 - 135*		B9B0437	02/19/2019	*02/19/19 18:32*	
Surrogate: Nitrobenzene-d5	*109 %*		*6 - 124*		B9B0437	02/19/2019	*02/19/19 18:32*	

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9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID MW-32B_1.5SV

Lab ID: 1900611-05

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,1,1-Trichloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,1,2-Trichloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,1-Dichloroethane	**0.88**	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,1-Dichloroethene	**97**	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,1-Dichloropropene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,2,3-Trichloropropane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,2-Dibromoethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,2-Dichlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,2-Dichloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,2-Dichloropropane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,3-Dichlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,3-Dichloropropane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
1,4-Dichlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
2,2-Dichloropropane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
2-Chlorotoluene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
4-Chlorotoluene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
4-Isopropyltoluene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Benzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Bromobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Bromodichloromethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Bromoform	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Bromomethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Carbon tetrachloride	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Chlorobenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Chloroethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Chloroform	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Chloromethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
cis-1,2-Dichloroethene	**2.6**	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Dibromochloromethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	

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Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID MW-32B_1.5SV

Lab ID: 1900611-05

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Dichlorodifluoromethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Ethylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Hexachlorobutadiene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Isopropylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
m,p-Xylene	ND	1.0	1	B9B0426	02/19/2019	02/19/19 15:47	
Methylene chloride	ND	1.0	1	B9B0426	02/19/2019	02/19/19 15:47	
n-Butylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
n-Propylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Naphthalene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
o-Xylene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
sec-Butylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Styrene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
tert-Butylbenzene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Tetrachloroethene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Toluene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Trichloroethene	**28**	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Trichlorofluoromethane	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Vinyl chloride	ND	0.50	1	B9B0426	02/19/2019	02/19/19 15:47	
Surrogate: 1,2-Dichloroethane-d4	*101 %*	*57 - 152*		B9B0426	02/19/2019	*02/19/19 15:47*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*		B9B0426	02/19/2019	*02/19/19 15:47*	
Surrogate: Dibromofluoromethane	*93.8 %*	*56 - 167*		B9B0426	02/19/2019	*02/19/19 15:47*	
Surrogate: Toluene-d8	*106 %*	*33 - 170*		B9B0426	02/19/2019	*02/19/19 15:47*	

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San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID MW-32B_1.5SV

Lab ID: 1900611-05

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	2.0	1	B9B0417	02/18/2019	02/19/19 21:20	
Surrogate: 1,2-Dichlorobenzene-d4	*75.6 %*		*34 - 188*		B9B0417	02/18/2019	*02/19/19 21:20*	
Surrogate: 2-Fluorobiphenyl	*81.6 %*		*39 - 108*		B9B0417	02/18/2019	*02/19/19 21:20*	
Surrogate: 4-Terphenyl-d14	*125 %*		*71 - 131*		B9B0417	02/18/2019	*02/19/19 21:20*	
Surrogate: Nitrobenzene-d5	*77.2 %*		*32 - 106*		B9B0417	02/18/2019	*02/19/19 21:20*	

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Client Sample ID MW-32B

Lab ID: 1900611-06

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,1,1-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,1,2-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,1-Dichloroethane	**1.1**	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,1-Dichloroethene	**140**	5.0	10	B9B0426	02/19/2019	02/19/19 17:25	
1,1-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,2,3-Trichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,2-Dibromoethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,2-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,2-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,3-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,3-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
1,4-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
2,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
2-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
4-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
4-Isopropyltoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Benzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Bromobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Bromodichloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Bromoform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Bromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Carbon tetrachloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Chlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Chloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Chloroform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Chloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
cis-1,2-Dichloroethene	**3.2**	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Dibromochloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	

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Client Sample ID MW-32B

Lab ID: 1900611-06

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Dichlorodifluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Ethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Hexachlorobutadiene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Isopropylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
m,p-Xylene	ND	1.0	1	B9B0391	02/18/2019	02/18/19 20:13	
Methylene chloride	ND	1.0	1	B9B0391	02/18/2019	02/18/19 20:13	
n-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
n-Propylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Naphthalene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
o-Xylene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
sec-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Styrene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
tert-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Tetrachloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Toluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Trichloroethene	**33**	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Trichlorofluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Vinyl chloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:13	
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*57 - 152*		B9B0426	02/19/2019	*02/19/19 17:25*	
Surrogate: 1,2-Dichloroethane-d4	*106 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 20:13*	
Surrogate: 4-Bromofluorobenzene	*106 %*	*62 - 134*		B9B0426	02/19/2019	*02/19/19 17:25*	
Surrogate: 4-Bromofluorobenzene	*107 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 20:13*	
Surrogate: Dibromofluoromethane	*98.8 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 20:13*	
Surrogate: Dibromofluoromethane	*106 %*	*56 - 167*		B9B0426	02/19/2019	*02/19/19 17:25*	
Surrogate: Toluene-d8	*108 %*	*33 - 170*		B9B0426	02/19/2019	*02/19/19 17:25*	
Surrogate: Toluene-d8	*104 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 20:13*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-32B

Lab ID: 1900611-06

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	2.0	1	B9B0417	02/18/2019	02/19/19 21:45	
Surrogate: 1,2-Dichlorobenzene-d4	*78.5 %*		*34 - 188*		B9B0417	02/18/2019	*02/19/19 21:45*	
Surrogate: 2-Fluorobiphenyl	*89.3 %*		*39 - 108*		B9B0417	02/18/2019	*02/19/19 21:45*	
Surrogate: 4-Terphenyl-d14	*136 %*		*71 - 131*		B9B0417	02/18/2019	*02/19/19 21:45*	S5
Surrogate: Nitrobenzene-d5	*81.6 %*		*32 - 106*		B9B0417	02/18/2019	*02/19/19 21:45*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-3200B

Lab ID: 1900611-07

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,1,1-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,1,2-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,1-Dichloroethane	**1.1**	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,1-Dichloroethene	**130**	5.0	10	B9B0426	02/19/2019	02/19/19 17:00	
1,1-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,2,3-Trichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,2-Dibromoethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,2-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,2-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,3-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,3-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
1,4-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
2,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
2-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
4-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
4-Isopropyltoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Benzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Bromobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Bromodichloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Bromoform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Bromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Carbon tetrachloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Chlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Chloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Chloroform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Chloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
cis-1,2-Dichloroethene	**3.3**	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Dibromochloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID MW-3200B

Lab ID: 1900611-07

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Dichlorodifluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Ethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Hexachlorobutadiene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Isopropylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
m,p-Xylene	ND	1.0	1	B9B0391	02/18/2019	02/18/19 20:37	
Methylene chloride	ND	1.0	1	B9B0391	02/18/2019	02/18/19 20:37	
n-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
n-Propylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Naphthalene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
o-Xylene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
sec-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Styrene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
tert-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Tetrachloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Toluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Trichloroethene	**34**	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Trichlorofluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Vinyl chloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 20:37	
Surrogate: 1,2-Dichloroethane-d4	*96.2 %*	*57 - 152*		B9B0426	02/19/2019	*02/19/19 17:00*	
Surrogate: 1,2-Dichloroethane-d4	*109 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 20:37*	
Surrogate: 4-Bromofluorobenzene	*107 %*	*62 - 134*		B9B0426	02/19/2019	*02/19/19 17:00*	
Surrogate: 4-Bromofluorobenzene	*107 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 20:37*	
Surrogate: Dibromofluoromethane	*102 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 20:37*	
Surrogate: Dibromofluoromethane	*92.5 %*	*56 - 167*		B9B0426	02/19/2019	*02/19/19 17:00*	
Surrogate: Toluene-d8	*105 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 20:37*	
Surrogate: Toluene-d8	*109 %*	*33 - 170*		B9B0426	02/19/2019	*02/19/19 17:00*	

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Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID MW-3200B

Lab ID: 1900611-07

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	2.0	1	B9B0417	02/18/2019	02/19/19 22:11	
Surrogate: 1,2-Dichlorobenzene-d4	*74.0 %*		*34 - 188*		B9B0417	02/18/2019	*02/19/19 22:11*	
Surrogate: 2-Fluorobiphenyl	*84.8 %*		*39 - 108*		B9B0417	02/18/2019	*02/19/19 22:11*	
Surrogate: 4-Terphenyl-d14	*127 %*		*71 - 131*		B9B0417	02/18/2019	*02/19/19 22:11*	
Surrogate: Nitrobenzene-d5	*77.6 %*		*32 - 106*		B9B0417	02/18/2019	*02/19/19 22:11*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-27

Lab ID: 1900611-08

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,1,1-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,1,2-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,1-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,1-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,1-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,2,3-Trichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,2-Dibromoethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,2-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,2-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,3-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,3-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
1,4-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
2,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
2-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
4-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
4-Isopropyltoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Benzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Bromobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Bromodichloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Bromoform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Bromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Carbon tetrachloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Chlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Chloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Chloroform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Chloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Dibromochloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-27

Lab ID: 1900611-08

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Dichlorodifluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Ethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Hexachlorobutadiene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Isopropylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
m,p-Xylene	ND	1.0	1	B9B0391	02/18/2019	02/18/19 19:24	
Methylene chloride	ND	1.0	1	B9B0391	02/18/2019	02/18/19 19:24	
n-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
n-Propylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Naphthalene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
o-Xylene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
sec-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Styrene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
tert-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Tetrachloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Toluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Trichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Trichlorofluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Vinyl chloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:24	
Surrogate: 1,2-Dichloroethane-d4	*107 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 19:24*	
Surrogate: 4-Bromofluorobenzene	*107 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 19:24*	
Surrogate: Dibromofluoromethane	*102 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 19:24*	
Surrogate: Toluene-d8	*110 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 19:24*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID MW-27

Lab ID: 1900611-08

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0437	02/19/2019	02/19/19 18:58	
Surrogate: 1,2-Dichlorobenzene-d4	*74.6 %*		*22 - 117*		B9B0437	02/19/2019	*02/19/19 18:58*	
Surrogate: 2-Fluorobiphenyl	*66.2 %*		*20 - 131*		B9B0437	02/19/2019	*02/19/19 18:58*	
Surrogate: 4-Terphenyl-d14	*76.4 %*		*24 - 135*		B9B0437	02/19/2019	*02/19/19 18:58*	
Surrogate: Nitrobenzene-d5	*117 %*		*6 - 124*		B9B0437	02/19/2019	*02/19/19 18:58*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-41

Lab ID: 1900611-09

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,1,1-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,1,2-Trichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,1-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,1-Dichloroethene	**14**	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,1-Dichloropropene	**0.70**	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,2,3-Trichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,2-Dibromoethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,2-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,2-Dichloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,3-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,3-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
1,4-Dichlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
2,2-Dichloropropane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
2-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
4-Chlorotoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
4-Isopropyltoluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Benzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Bromobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Bromodichloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Bromoform	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Bromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Carbon tetrachloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Chlorobenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Chloroethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Chloroform	**0.51**	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Chloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Dibromochloromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-41

Lab ID: 1900611-09

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Dichlorodifluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Ethylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Hexachlorobutadiene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Isopropylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
m,p-Xylene	ND	1.0	1	B9B0391	02/18/2019	02/18/19 19:48	
Methylene chloride	ND	1.0	1	B9B0391	02/18/2019	02/18/19 19:48	
n-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
n-Propylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Naphthalene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
o-Xylene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
sec-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Styrene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
tert-Butylbenzene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Tetrachloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Toluene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Trichloroethene	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Trichlorofluoromethane	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Vinyl chloride	ND	0.50	1	B9B0391	02/18/2019	02/18/19 19:48	
Surrogate: 1,2-Dichloroethane-d4	*99.5 %*	*57 - 152*		B9B0391	02/18/2019	*02/18/19 19:48*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*		B9B0391	02/18/2019	*02/18/19 19:48*	
Surrogate: Dibromofluoromethane	*92.8 %*	*56 - 167*		B9B0391	02/18/2019	*02/18/19 19:48*	
Surrogate: Toluene-d8	*112 %*	*33 - 170*		B9B0391	02/18/2019	*02/18/19 19:48*	

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9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID MW-41

Lab ID: 1900611-09

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**2.3**	0.20	1	B9B0437	02/19/2019	02/19/19 19:24	
Surrogate: 1,2-Dichlorobenzene-d4	*74.5 %*		*22 - 117*		B9B0437	02/19/2019	*02/19/19 19:24*	
Surrogate: 2-Fluorobiphenyl	*63.4 %*		*20 - 131*		B9B0437	02/19/2019	*02/19/19 19:24*	
Surrogate: 4-Terphenyl-d14	*77.5 %*		*24 - 135*		B9B0437	02/19/2019	*02/19/19 19:24*	
Surrogate: Nitrobenzene-d5	*115 %*		*6 - 124*		B9B0437	02/19/2019	*02/19/19 19:24*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
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QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0391 - MSVOA_W										
Blank (B9B0391-BLK1)					Prepared: 2/18/2019 Analyzed: 2/18/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0391 - MSVOA_W (continued)										
Blank (B9B0391-BLK1) - Continued					Prepared: 2/18/2019 Analyzed: 2/18/2019					
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*26.41*			*25.0000*		*106*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*26.85*			*25.0000*		*107*	*62 - 134*			
Surrogate: Dibromofluoromethan	*25.29*			*25.0000*		*101*	*56 - 167*			
Surrogate: Toluene-d8	*26.98*			*25.0000*		*108*	*33 - 170*			
LCS (B9B0391-BS1)					Prepared: 2/18/2019 Analyzed: 2/18/2019					
1,1,1,2-Tetrachloroethane	19.2300	0.50	0.11	20.0000		96.2	80 - 137			
1,1,1-Trichloroethane	18.6900	0.50	0.18	20.0000		93.4	75 - 148			
1,1,2,2-Tetrachloroethane	16.0100	0.50	0.17	20.0000		80.0	64 - 118			
1,1,2-Trichloroethane	19.0500	0.50	0.12	20.0000		95.2	77 - 113			
1,1-Dichloroethane	21.6100	0.50	0.16	20.0000		108	72 - 131			
1,1-Dichloroethene	23.3000	0.50	0.09	20.0000		116	75 - 132			
1,1-Dichloropropene	20.7900	0.50	0.21	20.0000		104	84 - 141			
1,2,3-Trichloropropane	16.6700	0.50	0.16	20.0000		83.4	65 - 111			
1,2,3-Trichlorobenzene	21.0000	0.50	0.12	20.0000		105	79 - 117			
1,2,4-Trichlorobenzene	21.2400	0.50	0.12	20.0000		106	78 - 121			
1,2,4-Trimethylbenzene	20.7700	0.50	0.08	20.0000		104	83 - 125			
1,2-Dibromo-3-chloropropane	18.6500	0.50	0.24	20.0000		93.2	54 - 116			
1,2-Dibromoethane	19.9100	0.50	0.11	20.0000		99.6	79 - 118			
1,2-Dichlorobenzene	20.7000	0.50	0.09	20.0000		104	82 - 115			
1,2-Dichloroethane	19.2300	0.50	0.19	20.0000		96.2	76 - 115			
1,2-Dichloropropane	18.5300	0.50	0.36	20.0000		92.6	74 - 113			
1,3,5-Trimethylbenzene	21.1600	0.50	0.05	20.0000		106	83 - 126			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0391 - MSVOA_W (continued)										
LCS (B9B0391-BS1) - Continued					Prepared: 2/18/2019 Analyzed: 2/18/2019					
1,3-Dichlorobenzene	20.8000	0.50	0.10	20.0000		104	84 - 118			
1,3-Dichloropropane	16.7200	0.50	0.07	20.0000		83.6	72 - 116			
1,4-Dichlorobenzene	20.5500	0.50	0.07	20.0000		103	83 - 112			
2,2-Dichloropropane	20.9900	0.50	0.16	20.0000		105	72 - 150			
2-Chlorotoluene	20.2600	0.50	0.08	20.0000		101	82 - 120			
4-Chlorotoluene	20.6400	0.50	0.08	20.0000		103	81 - 121			
4-Isopropyltoluene	22.1300	0.50	0.06	20.0000		111	86 - 124			
Benzene	39.7000	0.50	0.03	40.0000		99.2	81 - 118			
Bromobenzene	19.1900	0.50	0.09	20.0000		96.0	82 - 117			
Bromodichloromethane	18.7500	0.50	0.14	20.0000		93.8	80 - 122			
Bromoform	19.9200	0.50	0.13	20.0000		99.6	53 - 145			
Bromomethane	20.4700	0.50	0.42	20.0000		102	30 - 204			
Carbon tetrachloride	21.1700	0.50	0.19	20.0000		106	77 - 157			
Chlorobenzene	20.6400	0.50	0.07	20.0000		103	86 - 113			
Chloroethane	21.7500	0.50	0.40	20.0000		109	70 - 160			
Chloroform	20.3100	0.50	0.17	20.0000		102	66 - 136			
Chloromethane	22.6200	0.50	0.08	20.0000		113	52 - 138			
cis-1,2-Dichloroethene	20.7700	0.50	0.13	20.0000		104	71 - 128			
cis-1,3-Dichloropropene	21.7100	0.50	0.05	20.0000		109	71 - 123			
Dibromochloromethane	17.7400	0.50	0.14	20.0000		88.7	78 - 140			
Dibromomethane	18.8100	0.50	0.10	20.0000		94.0	78 - 109			
Dichlorodifluoromethane	23.9500	0.50	0.10	20.0000		120	64 - 144			
Ethylbenzene	42.2600	0.50	0.07	40.0000		106	90 - 116			
Hexachlorobutadiene	23.8600	0.50	0.14	20.0000		119	81 - 129			
Isopropylbenzene	21.7500	0.50	0.05	20.0000		109	83 - 129			
m,p-Xylene	46.7200	1.0	0.08	40.0000		117	88 - 124			
Methylene chloride	20.7900	1.0	0.46	20.0000		104	76 - 137			
n-Butylbenzene	21.9800	0.50	0.05	20.0000		110	83 - 129			
n-Propylbenzene	20.9800	0.50	0.07	20.0000		105	85 - 124			
Naphthalene	18.5800	0.50	0.15	20.0000		92.9	67 - 113			
o-Xylene	46.2100	0.50	0.05	40.0000		116	82 - 129			
sec-Butylbenzene	21.8000	0.50	0.04	20.0000		109	86 - 127			
Styrene	23.0500	0.50	0.06	20.0000		115	83 - 122			
tert-Butylbenzene	21.6600	0.50	0.06	20.0000		108	84 - 130			
Tetrachloroethene	20.3800	0.50	0.07	20.0000		102	87 - 123			
Toluene	45.4000	0.50	0.07	40.0000		114	84 - 115			
trans-1,2-Dichloroethene	21.1100	0.50	0.11	20.0000		106	60 - 148			
Trichloroethene	19.5200	0.50	0.05	20.0000		97.6	79 - 129			
Trichlorofluoromethane	21.6600	0.50	0.14	20.0000		108	68 - 162			
Vinyl chloride	22.3500	0.50	0.05	20.0000		112	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*23.92*			*25.0000*		*95.7*	*57 - 152*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0391 - MSVOA_W (continued)										
LCS (B9B0391-BS1) - Continued					Prepared: 2/18/2019 Analyzed: 2/18/2019					
Surrogate: 4-Bromofluorobenzene	*28.09*			*25.0000*		*112*	*62 - 134*			
Surrogate: Dibromofluoromethan	*25.29*			*25.0000*		*101*	*56 - 167*			
Surrogate: Toluene-d8	*26.88*			*25.0000*		*108*	*33 - 170*			
LCS Dup (B9B0391-BSD1)					Prepared: 2/18/2019 Analyzed: 2/18/2019					
1,1,1,2-Tetrachloroethane	22.3700	0.50	0.11	20.0000		112	80 - 137	15.1	20	
1,1,1-Trichloroethane	21.3500	0.50	0.18	20.0000		107	75 - 148	13.3	20	
1,1,2,2-Tetrachloroethane	19.0500	0.50	0.17	20.0000		95.2	64 - 118	17.3	20	
1,1,2-Trichloroethane	20.2500	0.50	0.12	20.0000		101	77 - 113	6.11	20	
1,1-Dichloroethane	21.8200	0.50	0.16	20.0000		109	72 - 131	0.967	20	
1,1-Dichloroethene	22.3900	0.50	0.09	20.0000		112	75 - 132	3.98	20	
1,1-Dichloropropene	22.1200	0.50	0.21	20.0000		111	84 - 141	6.20	20	
1,2,3-Trichloropropane	19.7000	0.50	0.16	20.0000		98.5	65 - 111	16.7	20	
1,2,3-Trichlorobenzene	19.7500	0.50	0.12	20.0000		98.8	79 - 117	6.13	20	
1,2,4-Trichlorobenzene	20.0100	0.50	0.12	20.0000		100	78 - 121	5.96	20	
1,2,4-Trimethylbenzene	21.7400	0.50	0.08	20.0000		109	83 - 125	4.56	20	
1,2-Dibromo-3-chloropropane	20.0800	0.50	0.24	20.0000		100	54 - 116	7.38	20	
1,2-Dibromoethane	20.2900	0.50	0.11	20.0000		101	79 - 118	1.89	20	
1,2-Dichlorobenzene	20.1800	0.50	0.09	20.0000		101	82 - 115	2.54	20	
1,2-Dichloroethane	20.0800	0.50	0.19	20.0000		100	76 - 115	4.32	20	
1,2-Dichloropropane	19.4200	0.50	0.36	20.0000		97.1	74 - 113	4.69	20	
1,3,5-Trimethylbenzene	22.4400	0.50	0.05	20.0000		112	83 - 126	5.87	20	
1,3-Dichlorobenzene	20.3100	0.50	0.10	20.0000		102	84 - 118	2.38	20	
1,3-Dichloropropane	20.8100	0.50	0.07	20.0000		104	72 - 116	21.8	20	R
1,4-Dichlorobenzene	20.1400	0.50	0.07	20.0000		101	83 - 112	2.02	20	
2,2-Dichloropropane	22.9600	0.50	0.16	20.0000		115	72 - 150	8.96	20	
2-Chlorotoluene	20.4400	0.50	0.08	20.0000		102	82 - 120	0.885	20	
4-Chlorotoluene	20.6300	0.50	0.08	20.0000		103	81 - 121	0.0485	20	
4-Isopropyltoluene	22.0000	0.50	0.06	20.0000		110	86 - 124	0.589	20	
Benzene	40.6000	0.50	0.03	40.0000		102	81 - 118	2.24	20	
Bromobenzene	19.8300	0.50	0.09	20.0000		99.2	82 - 117	3.28	20	
Bromodichloromethane	19.6700	0.50	0.14	20.0000		98.4	80 - 122	4.79	20	
Bromoform	22.3600	0.50	0.13	20.0000		112	53 - 145	11.5	20	
Bromomethane	19.5900	0.50	0.42	20.0000		98.0	30 - 204	4.39	20	
Carbon tetrachloride	22.1200	0.50	0.19	20.0000		111	77 - 157	4.39	20	
Chlorobenzene	20.2900	0.50	0.07	20.0000		101	86 - 113	1.71	20	
Chloroethane	20.4000	0.50	0.40	20.0000		102	70 - 160	6.41	20	
Chloroform	20.9000	0.50	0.17	20.0000		104	66 - 136	2.86	20	
Chloromethane	18.1000	0.50	0.08	20.0000		90.5	52 - 138	22.2	20	R
cis-1,2-Dichloroethene	21.0400	0.50	0.13	20.0000		105	71 - 128	1.29	20	
cis-1,3-Dichloropropene	23.2300	0.50	0.05	20.0000		116	71 - 123	6.76	20	
Dibromochloromethane	22.2300	0.50	0.14	20.0000		111	78 - 140	22.5	20	R

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0391 - MSVOA_W (continued)										
LCS Dup (B9B0391-BSD1) - Continued					Prepared: 2/18/2019 Analyzed: 2/18/2019					
Dibromomethane	20.0500	0.50	0.10	20.0000		100	78 - 109	6.38	20	
Dichlorodifluoromethane	22.0500	0.50	0.10	20.0000		110	64 - 144	8.26	20	
Ethylbenzene	40.7000	0.50	0.07	40.0000		102	90 - 116	3.76	20	
Hexachlorobutadiene	21.8200	0.50	0.14	20.0000		109	81 - 129	8.93	20	
Isopropylbenzene	22.6400	0.50	0.05	20.0000		113	83 - 129	4.01	20	
m,p-Xylene	43.1200	1.0	0.08	40.0000		108	88 - 124	8.01	20	
Methylene chloride	20.2200	1.0	0.46	20.0000		101	76 - 137	2.78	20	
n-Butylbenzene	21.3000	0.50	0.05	20.0000		106	83 - 129	3.14	20	
n-Propylbenzene	21.0900	0.50	0.07	20.0000		105	85 - 124	0.523	20	
Naphthalene	18.6700	0.50	0.15	20.0000		93.4	67 - 113	0.483	20	
o-Xylene	42.7500	0.50	0.05	40.0000		107	82 - 129	7.78	20	
sec-Butylbenzene	21.4400	0.50	0.04	20.0000		107	86 - 127	1.67	20	
Styrene	21.4300	0.50	0.06	20.0000		107	83 - 122	7.28	20	
tert-Butylbenzene	21.6600	0.50	0.06	20.0000		108	84 - 130	0.00	20	
Tetrachloroethene	22.0700	0.50	0.07	20.0000		110	87 - 123	7.96	20	
Toluene	39.8200	0.50	0.07	40.0000		99.6	84 - 115	13.1	20	
trans-1,2-Dichloroethene	21.2400	0.50	0.11	20.0000		106	60 - 148	0.614	20	
Trichloroethene	20.4600	0.50	0.05	20.0000		102	79 - 129	4.70	20	
Trichlorofluoromethane	22.9700	0.50	0.14	20.0000		115	68 - 162	5.87	20	
Vinyl chloride	21.1500	0.50	0.05	20.0000		106	73 - 128	5.52	20	
Surrogate: 1,2-Dichloroethane-d4	*26.79*			*25.0000*		*107*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*26.13*			*25.0000*		*105*	*62 - 134*			
Surrogate: Dibromofluoromethan	*27.16*			*25.0000*		*109*	*56 - 167*			
Surrogate: Toluene-d8	*24.11*			*25.0000*		*96.4*	*33 - 170*			

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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0426 - MSVOA_W										
Blank (B9B0426-BLK1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0426 - MSVOA_W (continued)										
Blank (B9B0426-BLK1) - Continued					Prepared: 2/19/2019 Analyzed: 2/19/2019					
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*26.25*			*25.0000*		*105*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*26.78*			*25.0000*		*107*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.80*			*25.0000*		*99.2*	*56 - 167*			
Surrogate: Toluene-d8	*26.72*			*25.0000*		*107*	*33 - 170*			
LCS (B9B0426-BS1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,1,1,2-Tetrachloroethane	18.2100	0.50	0.11	20.0000		91.0	80 - 137			
1,1,1-Trichloroethane	17.6200	0.50	0.18	20.0000		88.1	75 - 148			
1,1,2,2-Tetrachloroethane	17.2000	0.50	0.17	20.0000		86.0	64 - 118			
1,1,2-Trichloroethane	19.8300	0.50	0.12	20.0000		99.2	77 - 113			
1,1-Dichloroethane	18.8500	0.50	0.16	20.0000		94.2	72 - 131			
1,1-Dichloroethene	19.8200	0.50	0.09	20.0000		99.1	75 - 132			
1,1-Dichloropropene	19.3500	0.50	0.21	20.0000		96.8	84 - 141			
1,2,3-Trichloropropane	17.8000	0.50	0.16	20.0000		89.0	65 - 111			
1,2,3-Trichlorobenzene	21.1100	0.50	0.12	20.0000		106	79 - 117			
1,2,4-Trichlorobenzene	20.6100	0.50	0.12	20.0000		103	78 - 121			
1,2,4-Trimethylbenzene	19.4900	0.50	0.08	20.0000		97.4	83 - 125			
1,2-Dibromo-3-chloropropane	20.7400	0.50	0.24	20.0000		104	54 - 116			
1,2-Dibromoethane	20.7400	0.50	0.11	20.0000		104	79 - 118			
1,2-Dichlorobenzene	20.5100	0.50	0.09	20.0000		103	82 - 115			
1,2-Dichloroethane	18.2100	0.50	0.19	20.0000		91.0	76 - 115			
1,2-Dichloropropane	17.6900	0.50	0.36	20.0000		88.4	74 - 113			
1,3,5-Trimethylbenzene	19.8800	0.50	0.05	20.0000		99.4	83 - 126			
1,3-Dichlorobenzene	19.8400	0.50	0.10	20.0000		99.2	84 - 118			
1,3-Dichloropropane	16.6400	0.50	0.07	20.0000		83.2	72 - 116			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0426 - MSVOA_W (continued)										
LCS (B9B0426-BS1) - Continued					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,4-Dichlorobenzene	19.8200	0.50	0.07	20.0000		99.1	83 - 112			
2,2-Dichloropropane	18.6900	0.50	0.16	20.0000		93.4	72 - 150			
2-Chlorotoluene	19.2200	0.50	0.08	20.0000		96.1	82 - 120			
4-Chlorotoluene	19.6800	0.50	0.08	20.0000		98.4	81 - 121			
4-Isopropyltoluene	20.4100	0.50	0.06	20.0000		102	86 - 124			
Benzene	38.5700	0.50	0.03	40.0000		96.4	81 - 118			
Bromobenzene	18.6100	0.50	0.09	20.0000		93.0	82 - 117			
Bromodichloromethane	17.6600	0.50	0.14	20.0000		88.3	80 - 122			
Bromoform	20.1100	0.50	0.13	20.0000		101	53 - 145			
Bromomethane	20.1400	0.50	0.42	20.0000		101	30 - 204			
Carbon tetrachloride	19.2000	0.50	0.19	20.0000		96.0	77 - 157			
Chlorobenzene	19.7500	0.50	0.07	20.0000		98.8	86 - 113			
Chloroethane	21.1100	0.50	0.40	20.0000		106	70 - 160			
Chloroform	17.8900	0.50	0.17	20.0000		89.4	66 - 136			
Chloromethane	24.0000	0.50	0.08	20.0000		120	52 - 138			
cis-1,2-Dichloroethene	18.6200	0.50	0.13	20.0000		93.1	71 - 128			
cis-1,3-Dichloropropene	21.0100	0.50	0.05	20.0000		105	71 - 123			
Dibromochloromethane	17.0900	0.50	0.14	20.0000		85.4	78 - 140			
Dibromomethane	18.1100	0.50	0.10	20.0000		90.6	78 - 109			
Dichlorodifluoromethane	23.6700	0.50	0.10	20.0000		118	64 - 144			
Ethylbenzene	40.8300	0.50	0.07	40.0000		102	90 - 116			
Hexachlorobutadiene	21.1400	0.50	0.14	20.0000		106	81 - 129			
Isopropylbenzene	20.5800	0.50	0.05	20.0000		103	83 - 129			
m,p-Xylene	44.8200	1.0	0.08	40.0000		112	88 - 124			
Methylene chloride	20.5200	1.0	0.46	20.0000		103	76 - 137			
n-Butylbenzene	20.2400	0.50	0.05	20.0000		101	83 - 129			
n-Propylbenzene	19.7500	0.50	0.07	20.0000		98.8	85 - 124			
Naphthalene	19.7000	0.50	0.15	20.0000		98.5	67 - 113			
o-Xylene	44.4700	0.50	0.05	40.0000		111	82 - 129			
sec-Butylbenzene	20.2700	0.50	0.04	20.0000		101	86 - 127			
Styrene	22.6600	0.50	0.06	20.0000		113	83 - 122			
tert-Butylbenzene	20.2800	0.50	0.06	20.0000		101	84 - 130			
Tetrachloroethene	18.6900	0.50	0.07	20.0000		93.4	87 - 123			
Toluene	45.4100	0.50	0.07	40.0000		114	84 - 115			
trans-1,2-Dichloroethene	18.3500	0.50	0.11	20.0000		91.8	60 - 148			
Trichloroethene	18.1200	0.50	0.05	20.0000		90.6	79 - 129			
Trichlorofluoromethane	18.6900	0.50	0.14	20.0000		93.4	68 - 162			
Vinyl chloride	22.3900	0.50	0.05	20.0000		112	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*23.25*			*25.0000*		*93.0*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.96*			*25.0000*		*112*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.34*			*25.0000*		*93.4*	*56 - 167*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0426 - MSVOA_W (continued)										
LCS (B9B0426-BS1) - Continued					Prepared: 2/19/2019 Analyzed: 2/19/2019					
Surrogate: Toluene-d8	*27.21*			*25.0000*		*109*	*33 - 170*			
LCS Dup (B9B0426-BSD1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,1,1,2-Tetrachloroethane	18.9800	0.50	0.11	20.0000		94.9	80 - 137	4.14	20	
1,1,1-Trichloroethane	18.9100	0.50	0.18	20.0000		94.6	75 - 148	7.06	20	
1,1,2,2-Tetrachloroethane	18.3400	0.50	0.17	20.0000		91.7	64 - 118	6.42	20	
1,1,2-Trichloroethane	20.9200	0.50	0.12	20.0000		105	77 - 113	5.35	20	
1,1-Dichloroethane	21.6800	0.50	0.16	20.0000		108	72 - 131	14.0	20	
1,1-Dichloroethene	22.5600	0.50	0.09	20.0000		113	75 - 132	12.9	20	
1,1-Dichloropropene	20.2200	0.50	0.21	20.0000		101	84 - 141	4.40	20	
1,2,3-Trichloropropane	18.7300	0.50	0.16	20.0000		93.6	65 - 111	5.09	20	
1,2,3-Trichlorobenzene	21.8800	0.50	0.12	20.0000		109	79 - 117	3.58	20	
1,2,4-Trichlorobenzene	21.1500	0.50	0.12	20.0000		106	78 - 121	2.59	20	
1,2,4-Trimethylbenzene	20.0100	0.50	0.08	20.0000		100	83 - 125	2.63	20	
1,2-Dibromo-3-chloropropane	21.5000	0.50	0.24	20.0000		108	54 - 116	3.60	20	
1,2-Dibromoethane	21.5500	0.50	0.11	20.0000		108	79 - 118	3.83	20	
1,2-Dichlorobenzene	20.6900	0.50	0.09	20.0000		103	82 - 115	0.874	20	
1,2-Dichloroethane	20.6700	0.50	0.19	20.0000		103	76 - 115	12.7	20	
1,2-Dichloropropane	18.7200	0.50	0.36	20.0000		93.6	74 - 113	5.66	20	
1,3,5-Trimethylbenzene	20.3800	0.50	0.05	20.0000		102	83 - 126	2.48	20	
1,3-Dichlorobenzene	20.1400	0.50	0.10	20.0000		101	84 - 118	1.50	20	
1,3-Dichloropropane	17.9600	0.50	0.07	20.0000		89.8	72 - 116	7.63	20	
1,4-Dichlorobenzene	19.7900	0.50	0.07	20.0000		99.0	83 - 112	0.151	20	
2,2-Dichloropropane	20.1900	0.50	0.16	20.0000		101	72 - 150	7.72	20	
2-Chlorotoluene	19.7100	0.50	0.08	20.0000		98.6	82 - 120	2.52	20	
4-Chlorotoluene	20.0200	0.50	0.08	20.0000		100	81 - 121	1.71	20	
4-Isopropyltoluene	20.7400	0.50	0.06	20.0000		104	86 - 124	1.60	20	
Benzene	39.4500	0.50	0.03	40.0000		98.6	81 - 118	2.26	20	
Bromobenzene	18.9200	0.50	0.09	20.0000		94.6	82 - 117	1.65	20	
Bromodichloromethane	18.9700	0.50	0.14	20.0000		94.8	80 - 122	7.15	20	
Bromoform	20.8500	0.50	0.13	20.0000		104	53 - 145	3.61	20	
Bromomethane	20.5300	0.50	0.42	20.0000		103	30 - 204	1.92	20	
Carbon tetrachloride	20.3400	0.50	0.19	20.0000		102	77 - 157	5.77	20	
Chlorobenzene	19.9100	0.50	0.07	20.0000		99.6	86 - 113	0.807	20	
Chloroethane	21.3500	0.50	0.40	20.0000		107	70 - 160	1.13	20	
Chloroform	20.6000	0.50	0.17	20.0000		103	66 - 136	14.1	20	
Chloromethane	23.2100	0.50	0.08	20.0000		116	52 - 138	3.35	20	
cis-1,2-Dichloroethene	21.2600	0.50	0.13	20.0000		106	71 - 128	13.2	20	
cis-1,3-Dichloropropene	22.3100	0.50	0.05	20.0000		112	71 - 123	6.00	20	
Dibromochloromethane	18.4200	0.50	0.14	20.0000		92.1	78 - 140	7.49	20	
Dibromomethane	20.7200	0.50	0.10	20.0000		104	78 - 109	13.4	20	
Dichlorodifluoromethane	23.4700	0.50	0.10	20.0000		117	64 - 144	0.849	20	

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Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0426 - MSVOA_W (continued)										
LCS Dup (B9B0426-BSD1) - Continued					Prepared: 2/19/2019 Analyzed: 2/19/2019					
Ethylbenzene	40.7000	0.50	0.07	40.0000		102	90 - 116	0.319	20	
Hexachlorobutadiene	21.4900	0.50	0.14	20.0000		107	81 - 129	1.64	20	
Isopropylbenzene	20.9600	0.50	0.05	20.0000		105	83 - 129	1.83	20	
m,p-Xylene	44.6200	1.0	0.08	40.0000		112	88 - 124	0.447	20	
Methylene chloride	20.8300	1.0	0.46	20.0000		104	76 - 137	1.50	20	
n-Butylbenzene	20.5300	0.50	0.05	20.0000		103	83 - 129	1.42	20	
n-Propylbenzene	20.0200	0.50	0.07	20.0000		100	85 - 124	1.36	20	
Naphthalene	20.9000	0.50	0.15	20.0000		104	67 - 113	5.91	20	
o-Xylene	44.4100	0.50	0.05	40.0000		111	82 - 129	0.135	20	
sec-Butylbenzene	20.6300	0.50	0.04	20.0000		103	86 - 127	1.76	20	
Styrene	22.3400	0.50	0.06	20.0000		112	83 - 122	1.42	20	
tert-Butylbenzene	20.5300	0.50	0.06	20.0000		103	84 - 130	1.23	20	
Tetrachloroethene	19.1700	0.50	0.07	20.0000		95.8	87 - 123	2.54	20	
Toluene	44.6200	0.50	0.07	40.0000		112	84 - 115	1.75	20	
trans-1,2-Dichloroethene	21.2800	0.50	0.11	20.0000		106	60 - 148	14.8	20	
Trichloroethene	19.1200	0.50	0.05	20.0000		95.6	79 - 129	5.37	20	
Trichlorofluoromethane	20.7700	0.50	0.14	20.0000		104	68 - 162	10.5	20	
Vinyl chloride	22.2500	0.50	0.05	20.0000		111	73 - 128	0.627	20	
Surrogate: 1,2-Dichloroethane-d4	*27.35*			*25.0000*		*109*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*28.79*			*25.0000*		*115*	*62 - 134*			
Surrogate: Dibromofluoromethan	*26.88*			*25.0000*		*108*	*56 - 167*			
Surrogate: Toluene-d8	*27.09*			*25.0000*		*108*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0417 - MSSEMI_W										
Blank (B9B0417-BLK1)						Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	ND	2.0	0.84							
Surrogate: 1,2-Dichlorobenzene-d	*83.32*			*100.000*		*83.3*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*94.39*			*100.000*		*94.4*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*113.1*			*100.000*		*113*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*90.17*			*100.000*		*90.2*	*32 - 106*			
LCS (B9B0417-BS1)						Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	122.210	2.0	0.84	100.000		122	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*69.91*			*100.000*		*69.9*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*90.02*			*100.000*		*90.0*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*99.98*			*100.000*		*100*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*84.34*			*100.000*		*84.3*	*32 - 106*			
Matrix Spike (B9B0417-MS1)			**Source: 1900611-02**			Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	124.250	2.0	0.84	100.000	ND	124	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*71.86*			*100.000*		*71.9*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*90.51*			*100.000*		*90.5*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*110.1*			*100.000*		*110*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*86.45*			*100.000*		*86.4*	*32 - 106*			
Matrix Spike Dup (B9B0417-MSD1)			**Source: 1900611-02**			Prepared: 2/18/2019 Analyzed: 2/19/2019				
1,4-Dioxane	126.250	2.0	0.84	100.000	ND	126	40 - 159	1.60	20	
Surrogate: 1,2-Dichlorobenzene-d	*74.99*			*100.000*		*75.0*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*94.16*			*100.000*		*94.2*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*109.7*			*100.000*		*110*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*83.90*			*100.000*		*83.9*	*32 - 106*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0437 - MSSEMI_W										
Blank (B9B0437-BLK1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,4-Dioxane	ND	0.20	0.05							
Surrogate: 1,2-Dichlorobenzene-d	*0.7388*			*1.00000*		*73.9*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.6410*			*1.00000*		*64.1*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7399*			*1.00000*		*74.0*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.188*			*1.00000*		*119*	*6 - 124*			
LCS (B9B0437-BS1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,4-Dioxane	0.881670	0.20	0.05	1.00000		88.2	64 - 129			
Surrogate: 1,2-Dichlorobenzene-d	*0.6462*			*1.00000*		*64.6*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.6112*			*1.00000*		*61.1*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.6995*			*1.00000*		*70.0*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.086*			*1.00000*		*109*	*6 - 124*			
LCS Dup (B9B0437-BSD1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,4-Dioxane	0.904980	0.20	0.05	1.00000		90.5	64 - 129	2.61	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.6604*			*1.00000*		*66.0*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5882*			*1.00000*		*58.8*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7115*			*1.00000*		*71.1*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.132*			*1.00000*		*113*	*6 - 124*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Notes and Definitions

S5	Surrogate recovery was above laboratory acceptance limit. Sample reanalysis showed the same high recovery.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 2/14/19
Page 1 of 2

PROJECT: Raytheon Main

TASK NO.: 532.30

Project Manager Steve Netto
QA Manager Tyler Evans
Phone 858.455.6500
Fax 858.455.6533

Sampled By: A. DONNELLY, C. DIAZ

SAMPLE COLLECTION

LAB ID	SAMPLE ID	Date	Time	MATRIX: Groundwater	MATRIX: Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	PRESERVATION: Ice	CONTAINERS: 40-ml VOA	CONTAINERS: 1 L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	ANALYSIS REQUESTED: 1,4 Dioxane 8270 SIM	ANALYSIS REQUESTED: 1,4-Dioxane 8270 MOD	Expected Concetration Range (ppb) for VOA's: 0 - 10	10 - 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 hr TAT	Standard TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1900611-01	TB-021419A	2/14/19	0900		X	X	X	2		X			X						X			Report J Flags
-02	MW-31		1120	X		X	X	9		X					X				X		X	
	↓		↓	X			X		3			X							X		X	
-03	P-07		1630	X		X	X	3		X						X			X			
	↓	↓	↓	X			X		1			X							X			

Total number of containers per analysis:

Total No. of Containers:

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
A. Donnelly / H+A	2/14/19 1900	[illegible] / ATL	2/14/19 1700
Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
[illegible]	2/14/19 1814	[illegible]	2/14/19 1812

- ☐ No. of containers correct
- ☐ Received in good condition
- ☐ Custody seals secure
- ☐ Conforms to COC document

5.0 Temperature on receipt

Laboratory
ATL
Attn: Rachelle Arada
3257 Walnut Ave
Signal Hill, CA 90755
562-989-4045

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.5400
snetto@hargis.com

Instructions
Fill out form completely and sign only after verified for completeness
Complete in ballpoint pen. Draw one line through error, initial and date correction
Indicate the number of sample containers in analytical request space; indicate choice with ✓ or ×
Note applicable preservatives, special instructions, and deviations from typical environmental samples.
Consult project QA documents for specific instructions.

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 2/14/19
Page 1 of 2

PROJECT: Raytheon Main

TASK NO.: 532.30

Project Manager Steve Netto
QA Manager Tyler Evans
Phone 858.455.6500
Fax 858.455.6533

Sampled By: N. Scholl / DJ Secker

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Groundwater	MATRIX: Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	PRESERVATION: Ice	CONTAINERS: 40-ml VOA	CONTAINERS: 1 L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	ANALYSIS REQUESTED: 1,4 Dioxane 8270 SIM	ANALYSIS REQUESTED: 1,4-Dioxane 8270 MOD	Expected Concetration Range (ppb) for VOA's: 0 - 10	10- 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 hr TAT	Standard TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1900611-04	MW-32A	2/14/19	0920	X		X	X	3		X			X						X			Report J Flags
				X			X		1		X								X			
-05	MW-32B-1.5SV		1025	X		X	X	3		X					X				X			
				X			X		1			X							X			
-06	MW-32B		1100	X		X	X	3		X					X				X			
				X			X		1			X							X			
-07	MW-3200B		1101	X		X	X	3		X					X				X			
				X			X		1			X							X			
-08	MW-27		1345	X		X	X	3		X			X						X			
				X			X		1		X								X			
-09	MW-41		1440	X		X	X	3		X				X					X			
				X			X		1		X								X			

Total number of containers per analysis:

Total No. of Containers:

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
A Dailey / H+A	2/14/19 1200		2/14/19 1700
Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
	2/14/19 1812		2/14/19 1812

- [ ] No. of containers correct
- [ ] Received in good condition
- [ ] Custody seals secure
- [ ] Conforms to COC document

5.0 °C Temperature on receipt

Laboratory
ATL
Attn: Rachelle Arada
3257 Walnut Ave
Signal Hill, CA 90755
562-989-4045

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.5400
snetto@hargis.com

Instructions
Fill out form completely and sign only after verified for completeness
Complete in ballpoint pen. Draw one line through error, initial and date correction
Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
Note applicable preservatives, special instructions, and deviations from typical environmental samples.
Consult project QA documents for specific instructions.

ADVANCED TECHNOLOGY LABORATORIES

February 22, 2019

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

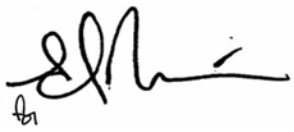
Re: ATL Work Order Number : 1900628

Client Reference : Raytheon Main GETS Monthly Sample, 532.30

Enclosed are the results for sample(s) received on February 15, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-021519	1900628-01	Lab prepared water	2/15/19 8:00	2/15/19 12:50
MW-09	1900628-02	Groundwater	2/15/19 9:25	2/15/19 12:50

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, ‡
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID TB-021519

Lab ID: 1900628-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,1,1-Trichloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,1,2-Trichloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,1-Dichloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,1-Dichloroethene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,1-Dichloropropene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,2,3-Trichloropropane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,2-Dibromoethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,2-Dichlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,2-Dichloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,2-Dichloropropane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,3-Dichlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,3-Dichloropropane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
1,4-Dichlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
2,2-Dichloropropane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
2-Chlorotoluene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
4-Chlorotoluene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
4-Isopropyltoluene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Benzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Bromobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Bromodichloromethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Bromoform	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Bromomethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Carbon tetrachloride	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Chlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Chloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Chloroform	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Chloromethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Dibromochloromethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, ‡
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID TB-021519

Lab ID: 1900628-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Dichlorodifluoromethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Ethylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Hexachlorobutadiene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Isopropylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
m,p-Xylene	ND	1.0	1	B9B0444	02/20/2019	02/20/19 17:16	
Methylene chloride	ND	1.0	1	B9B0444	02/20/2019	02/20/19 17:16	
n-Butylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
n-Propylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Naphthalene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
o-Xylene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
sec-Butylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Styrene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
tert-Butylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Tetrachloroethene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Toluene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Trichloroethene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Trichlorofluoromethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Vinyl chloride	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:16	
Surrogate: 1,2-Dichloroethane-d4	*107 %*	*57 - 152*		B9B0444	02/20/2019	*02/20/19 17:16*	
Surrogate: 4-Bromofluorobenzene	*108 %*	*62 - 134*		B9B0444	02/20/2019	*02/20/19 17:16*	
Surrogate: Dibromofluoromethane	*96.7 %*	*56 - 167*		B9B0444	02/20/2019	*02/20/19 17:16*	
Surrogate: Toluene-d8	*110 %*	*33 - 170*		B9B0444	02/20/2019	*02/20/19 17:16*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, ‡
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-09

Lab ID: 1900628-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,1,1-Trichloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,1,2-Trichloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,1-Dichloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,1-Dichloroethene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,1-Dichloropropene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,2,3-Trichloropropane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,2-Dibromoethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,2-Dichlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,2-Dichloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,2-Dichloropropane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,3-Dichlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,3-Dichloropropane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
1,4-Dichlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
2,2-Dichloropropane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
2-Chlorotoluene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
4-Chlorotoluene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
4-Isopropyltoluene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Benzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Bromobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Bromodichloromethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Bromoform	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Bromomethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Carbon tetrachloride	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Chlorobenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Chloroethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Chloroform	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Chloromethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Dibromochloromethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Monthly Sample, ‡
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID MW-09

Lab ID: 1900628-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Dichlorodifluoromethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Ethylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Hexachlorobutadiene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Isopropylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
m,p-Xylene	ND	1.0	1	B9B0444	02/20/2019	02/20/19 17:40	
Methylene chloride	ND	1.0	1	B9B0444	02/20/2019	02/20/19 17:40	
n-Butylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
n-Propylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Naphthalene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
o-Xylene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
sec-Butylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Styrene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
tert-Butylbenzene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Tetrachloroethene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Toluene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Trichloroethene	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Trichlorofluoromethane	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Vinyl chloride	ND	0.50	1	B9B0444	02/20/2019	02/20/19 17:40	
Surrogate: 1,2-Dichloroethane-d4	*101 %*	*57 - 152*		B9B0444	02/20/2019	*02/20/19 17:40*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*		B9B0444	02/20/2019	*02/20/19 17:40*	
Surrogate: Dibromofluoromethane	*91.3 %*	*56 - 167*		B9B0444	02/20/2019	*02/20/19 17:40*	
Surrogate: Toluene-d8	*110 %*	*33 - 170*		B9B0444	02/20/2019	*02/20/19 17:40*	

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San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-09

Lab ID: 1900628-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0437	02/19/2019	02/19/19 18:06	
Surrogate: 1,2-Dichlorobenzene-d4	*75.3 %*		*22 - 117*		B9B0437	02/19/2019	*02/19/19 18:06*	
Surrogate: 2-Fluorobiphenyl	*66.4 %*		*20 - 131*		B9B0437	02/19/2019	*02/19/19 18:06*	
Surrogate: 4-Terphenyl-d14	*79.7 %*		*24 - 135*		B9B0437	02/19/2019	*02/19/19 18:06*	
Surrogate: Nitrobenzene-d5	*115 %*		*6 - 124*		B9B0437	02/19/2019	*02/19/19 18:06*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, ‡
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San Diego , CA 92122	Reported : 02/22/2019

QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0444 - MSVOA_W										
Blank (B9B0444-BLK1)					Prepared: 2/20/2019 Analyzed: 2/20/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0444 - MSVOA_W (continued)										
Blank (B9B0444-BLK1) - Continued					Prepared: 2/20/2019 Analyzed: 2/20/2019					
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*25.70*			*25.0000*		*103*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.47*			*25.0000*		*110*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.97*			*25.0000*		*95.9*	*56 - 167*			
Surrogate: Toluene-d8	*27.02*			*25.0000*		*108*	*33 - 170*			
LCS (B9B0444-BS1)					Prepared: 2/20/2019 Analyzed: 2/20/2019					
1,1,1,2-Tetrachloroethane	18.3100	0.50	0.11	20.0000		91.6	80 - 137			
1,1,1-Trichloroethane	17.5600	0.50	0.18	20.0000		87.8	75 - 148			
1,1,2,2-Tetrachloroethane	17.7200	0.50	0.17	20.0000		88.6	64 - 118			
1,1,2-Trichloroethane	19.8000	0.50	0.12	20.0000		99.0	77 - 113			
1,1-Dichloroethane	18.9500	0.50	0.16	20.0000		94.8	72 - 131			
1,1-Dichloroethene	18.4300	0.50	0.09	20.0000		92.2	75 - 132			
1,1-Dichloropropene	19.6200	0.50	0.21	20.0000		98.1	84 - 141			
1,2,3-Trichloropropane	18.0100	0.50	0.16	20.0000		90.0	65 - 111			
1,2,3-Trichlorobenzene	20.3400	0.50	0.12	20.0000		102	79 - 117			
1,2,4-Trichlorobenzene	20.0100	0.50	0.12	20.0000		100	78 - 121			
1,2,4-Trimethylbenzene	19.6800	0.50	0.08	20.0000		98.4	83 - 125			
1,2-Dibromo-3-chloropropane	19.5500	0.50	0.24	20.0000		97.8	54 - 116			
1,2-Dibromoethane	20.8000	0.50	0.11	20.0000		104	79 - 118			
1,2-Dichlorobenzene	20.5100	0.50	0.09	20.0000		103	82 - 115			
1,2-Dichloroethane	18.1100	0.50	0.19	20.0000		90.6	76 - 115			
1,2-Dichloropropane	17.5700	0.50	0.36	20.0000		87.8	74 - 113			
1,3,5-Trimethylbenzene	20.1500	0.50	0.05	20.0000		101	83 - 126			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0444 - MSVOA_W (continued)										
LCS (B9B0444-BS1) - Continued					Prepared: 2/20/2019 Analyzed: 2/20/2019					
1,3-Dichlorobenzene	20.0200	0.50	0.10	20.0000		100	84 - 118			
1,3-Dichloropropane	16.7500	0.50	0.07	20.0000		83.8	72 - 116			
1,4-Dichlorobenzene	20.0900	0.50	0.07	20.0000		100	83 - 112			
2,2-Dichloropropane	19.0300	0.50	0.16	20.0000		95.2	72 - 150			
2-Chlorotoluene	19.7400	0.50	0.08	20.0000		98.7	82 - 120			
4-Chlorotoluene	20.0900	0.50	0.08	20.0000		100	81 - 121			
4-Isopropyltoluene	20.3200	0.50	0.06	20.0000		102	86 - 124			
Benzene	38.5000	0.50	0.03	40.0000		96.2	81 - 118			
Bromobenzene	18.8000	0.50	0.09	20.0000		94.0	82 - 117			
Bromodichloromethane	17.5900	0.50	0.14	20.0000		88.0	80 - 122			
Bromoform	19.4100	0.50	0.13	20.0000		97.0	53 - 145			
Bromomethane	20.8100	0.50	0.42	20.0000		104	30 - 204			
Carbon tetrachloride	18.8200	0.50	0.19	20.0000		94.1	77 - 157			
Chlorobenzene	19.9000	0.50	0.07	20.0000		99.5	86 - 113			
Chloroethane	18.9100	0.50	0.40	20.0000		94.6	70 - 160			
Chloroform	18.2000	0.50	0.17	20.0000		91.0	66 - 136			
Chloromethane	17.3800	0.50	0.08	20.0000		86.9	52 - 138			
cis-1,2-Dichloroethene	18.4700	0.50	0.13	20.0000		92.4	71 - 128			
cis-1,3-Dichloropropene	20.7300	0.50	0.05	20.0000		104	71 - 123			
Dibromochloromethane	16.8800	0.50	0.14	20.0000		84.4	78 - 140			
Dibromomethane	17.9900	0.50	0.10	20.0000		90.0	78 - 109			
Dichlorodifluoromethane	14.3700	0.50	0.10	20.0000		71.8	64 - 144			
Ethylbenzene	40.9200	0.50	0.07	40.0000		102	90 - 116			
Hexachlorobutadiene	19.9500	0.50	0.14	20.0000		99.8	81 - 129			
Isopropylbenzene	20.7200	0.50	0.05	20.0000		104	83 - 129			
m,p-Xylene	45.1900	1.0	0.08	40.0000		113	88 - 124			
Methylene chloride	20.3200	1.0	0.46	20.0000		102	76 - 137			
n-Butylbenzene	19.7900	0.50	0.05	20.0000		99.0	83 - 129			
n-Propylbenzene	19.9000	0.50	0.07	20.0000		99.5	85 - 124			
Naphthalene	19.2200	0.50	0.15	20.0000		96.1	67 - 113			
o-Xylene	44.6400	0.50	0.05	40.0000		112	82 - 129			
sec-Butylbenzene	20.0000	0.50	0.04	20.0000		100	86 - 127			
Styrene	22.6900	0.50	0.06	20.0000		113	83 - 122			
tert-Butylbenzene	20.3400	0.50	0.06	20.0000		102	84 - 130			
Tetrachloroethene	18.8100	0.50	0.07	20.0000		94.0	87 - 123			
Toluene	45.1400	0.50	0.07	40.0000		113	84 - 115			
trans-1,2-Dichloroethene	18.0000	0.50	0.11	20.0000		90.0	60 - 148			
Trichloroethene	18.0600	0.50	0.05	20.0000		90.3	79 - 129			
Trichlorofluoromethane	17.5200	0.50	0.14	20.0000		87.6	68 - 162			
Vinyl chloride	17.4500	0.50	0.05	20.0000		87.2	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*23.39*			*25.0000*		*93.6*	*57 - 152*			

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, ‡
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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0444 - MSVOA_W (continued)										
LCS (B9B0444-BS1) - Continued						Prepared: 2/20/2019 Analyzed: 2/20/2019				
Surrogate: 4-Bromofluorobenzene	*28.52*			*25.0000*		*114*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.39*			*25.0000*		*93.6*	*56 - 167*			
Surrogate: Toluene-d8	*27.16*			*25.0000*		*109*	*33 - 170*			
LCS Dup (B9B0444-BSD1)						Prepared: 2/20/2019 Analyzed: 2/20/2019				
1,1,1,2-Tetrachloroethane	18.5900	0.50	0.11	20.0000		93.0	80 - 137	1.52	20	
1,1,1-Trichloroethane	17.8200	0.50	0.18	20.0000		89.1	75 - 148	1.47	20	
1,1,2,2-Tetrachloroethane	17.4900	0.50	0.17	20.0000		87.4	64 - 118	1.31	20	
1,1,2-Trichloroethane	19.7000	0.50	0.12	20.0000		98.5	77 - 113	0.506	20	
1,1-Dichloroethane	20.2900	0.50	0.16	20.0000		101	72 - 131	6.83	20	
1,1-Dichloroethene	21.1100	0.50	0.09	20.0000		106	75 - 132	13.6	20	
1,1-Dichloropropene	19.9500	0.50	0.21	20.0000		99.8	84 - 141	1.67	20	
1,2,3-Trichloropropane	18.1200	0.50	0.16	20.0000		90.6	65 - 111	0.609	20	
1,2,3-Trichlorobenzene	20.5000	0.50	0.12	20.0000		102	79 - 117	0.784	20	
1,2,4-Trichlorobenzene	20.3900	0.50	0.12	20.0000		102	78 - 121	1.88	20	
1,2,4-Trimethylbenzene	20.0200	0.50	0.08	20.0000		100	83 - 125	1.71	20	
1,2-Dibromo-3-chloropropane	19.4500	0.50	0.24	20.0000		97.2	54 - 116	0.513	20	
1,2-Dibromoethane	20.6000	0.50	0.11	20.0000		103	79 - 118	0.966	20	
1,2-Dichlorobenzene	20.7700	0.50	0.09	20.0000		104	82 - 115	1.26	20	
1,2-Dichloroethane	18.8700	0.50	0.19	20.0000		94.4	76 - 115	4.11	20	
1,2-Dichloropropane	18.0800	0.50	0.36	20.0000		90.4	74 - 113	2.86	20	
1,3,5-Trimethylbenzene	20.3500	0.50	0.05	20.0000		102	83 - 126	0.988	20	
1,3-Dichlorobenzene	20.2900	0.50	0.10	20.0000		101	84 - 118	1.34	20	
1,3-Dichloropropane	17.2200	0.50	0.07	20.0000		86.1	72 - 116	2.77	20	
1,4-Dichlorobenzene	20.2500	0.50	0.07	20.0000		101	83 - 112	0.793	20	
2,2-Dichloropropane	19.2600	0.50	0.16	20.0000		96.3	72 - 150	1.20	20	
2-Chlorotoluene	19.9400	0.50	0.08	20.0000		99.7	82 - 120	1.01	20	
4-Chlorotoluene	20.3300	0.50	0.08	20.0000		102	81 - 121	1.19	20	
4-Isopropyltoluene	20.6800	0.50	0.06	20.0000		103	86 - 124	1.76	20	
Benzene	38.7000	0.50	0.03	40.0000		96.8	81 - 118	0.518	20	
Bromobenzene	18.9800	0.50	0.09	20.0000		94.9	82 - 117	0.953	20	
Bromodichloromethane	17.9900	0.50	0.14	20.0000		90.0	80 - 122	2.25	20	
Bromoform	19.3400	0.50	0.13	20.0000		96.7	53 - 145	0.361	20	
Bromomethane	20.8500	0.50	0.42	20.0000		104	30 - 204	0.192	20	
Carbon tetrachloride	19.4700	0.50	0.19	20.0000		97.4	77 - 157	3.40	20	
Chlorobenzene	20.0700	0.50	0.07	20.0000		100	86 - 113	0.851	20	
Chloroethane	19.5000	0.50	0.40	20.0000		97.5	70 - 160	3.07	20	
Chloroform	19.1900	0.50	0.17	20.0000		96.0	66 - 136	5.30	20	
Chloromethane	17.7400	0.50	0.08	20.0000		88.7	52 - 138	2.05	20	
cis-1,2-Dichloroethene	19.7700	0.50	0.13	20.0000		98.8	71 - 128	6.80	20	
cis-1,3-Dichloropropene	21.3100	0.50	0.05	20.0000		107	71 - 123	2.76	20	
Dibromochloromethane	17.2100	0.50	0.14	20.0000		86.0	78 - 140	1.94	20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0444 - MSVOA_W (continued)										
LCS Dup (B9B0444-BSD1) - Continued					Prepared: 2/20/2019 Analyzed: 2/20/2019					
Dibromomethane	18.7000	0.50	0.10	20.0000		93.5	78 - 109	3.87	20	
Dichlorodifluoromethane	14.6300	0.50	0.10	20.0000		73.2	64 - 144	1.79	20	
Ethylbenzene	41.2200	0.50	0.07	40.0000		103	90 - 116	0.730	20	
Hexachlorobutadiene	20.1200	0.50	0.14	20.0000		101	81 - 129	0.849	20	
Isopropylbenzene	21.0700	0.50	0.05	20.0000		105	83 - 129	1.68	20	
m,p-Xylene	45.1500	1.0	0.08	40.0000		113	88 - 124	0.0885	20	
Methylene chloride	20.5100	1.0	0.46	20.0000		103	76 - 137	0.931	20	
n-Butylbenzene	20.0900	0.50	0.05	20.0000		100	83 - 129	1.50	20	
n-Propylbenzene	20.2200	0.50	0.07	20.0000		101	85 - 124	1.60	20	
Naphthalene	19.8500	0.50	0.15	20.0000		99.2	67 - 113	3.22	20	
o-Xylene	44.8800	0.50	0.05	40.0000		112	82 - 129	0.536	20	
sec-Butylbenzene	20.4900	0.50	0.04	20.0000		102	86 - 127	2.42	20	
Styrene	22.6900	0.50	0.06	20.0000		113	83 - 122	0.00	20	
tert-Butylbenzene	20.5400	0.50	0.06	20.0000		103	84 - 130	0.978	20	
Tetrachloroethene	19.1700	0.50	0.07	20.0000		95.8	87 - 123	1.90	20	
Toluene	44.6500	0.50	0.07	40.0000		112	84 - 115	1.09	20	
trans-1,2-Dichloroethene	19.7400	0.50	0.11	20.0000		98.7	60 - 148	9.22	20	
Trichloroethene	18.6200	0.50	0.05	20.0000		93.1	79 - 129	3.05	20	
Trichlorofluoromethane	19.0000	0.50	0.14	20.0000		95.0	68 - 162	8.11	20	
Vinyl chloride	18.8900	0.50	0.05	20.0000		94.4	73 - 128	7.93	20	
Surrogate: 1,2-Dichloroethane-d4	*24.06*			*25.0000*		*96.2*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.89*			*25.0000*		*112*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.41*			*25.0000*		*97.6*	*56 - 167*			
Surrogate: Toluene-d8	*26.73*			*25.0000*		*107*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, ‡
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0437 - MSSEMI_W										
Blank (B9B0437-BLK1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,4-Dioxane	ND	0.20	0.05							
Surrogate: 1,2-Dichlorobenzene-d	*0.7388*			*1.00000*		*73.9*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.6410*			*1.00000*		*64.1*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7399*			*1.00000*		*74.0*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.188*			*1.00000*		*119*	*6 - 124*			
LCS (B9B0437-BS1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,4-Dioxane	0.881670	0.20	0.05	1.00000		88.2	64 - 129			
Surrogate: 1,2-Dichlorobenzene-d	*0.6462*			*1.00000*		*64.6*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.6112*			*1.00000*		*61.1*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.6995*			*1.00000*		*70.0*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.086*			*1.00000*		*109*	*6 - 124*			
LCS Dup (B9B0437-BSD1)					Prepared: 2/19/2019 Analyzed: 2/19/2019					
1,4-Dioxane	0.904980	0.20	0.05	1.00000		90.5	64 - 129	2.61	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.6604*			*1.00000*		*66.0*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5882*			*1.00000*		*58.8*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7115*			*1.00000*		*71.1*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.132*			*1.00000*		*113*	*6 - 124*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

HARGIS+ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 2/15/19
Page 1 of 1

PROJECT: Raytheon Main GETS Monthly Sample

TASK NO.: 532.30

Project Manager Steve Netto
QA Manager Tyler Evans
Phone 858.455.6500
Fax 858.455.6533

Sampled By: Andrew Donnelly, C. Diaz

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Groundwater	Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Ice	CONTAINERS: 40-ml VOA	125 mL Poly	250 mL Poly	250 mL Glass	1 L Poly	1L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	Bromate by EPA 317	Bromide by EPA 300	Alkalinity by SM2320B	Total Organic Carbon by SM5310B	Total Suspended Solids by SM2540D	UV Absorption EPA 415.3 @254 nm	1,4-Dioxane by EPA 8270C MOD	1,4-Dioxane by EPA 8270 SIM	Expected Concentration Range (ppb) for VOAs: 0 - 10	10 - 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 Hour TAT	Standard TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1900628-01	TB-021519	2/15/19	0800		X	X			X	2						X									✓						X			
-02	MW-09	1	0925	X		X			X	3						X									X						X			
↓	↓	↓	↓	X					X					1										X							X			

Total number of containers per analysis:

Total No. of Containers: 0

Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
[signature] HA	2/15/19 1250	[signature]	2/15/19 1250
Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
[signature]	2/15/19 1513	Steve Bieber ATL	2/15/19 15:13

- ☐ No. of containers correct
- ☐ Received in good condition
- ☐ Custody seals secure
- ☐ Conforms to COC document

3.2 Temperature on receipt
ice, blue ice

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 275
San Diego, CA 92122
Ph: 858.455.6500
snetto@hargis.com

Laboratory
Advanced Technology Laboratories
Attn: Rachelle Arada
3275 Walnut Ave
Signal Hill, CA 90755
(562) 989-4045

Instructions
- Fill out form completely and sign only after verified for completeness
- Complete in ballpoint pen. Draw one line through error, initial and date correction
- Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
- Note applicable preservatives, special instructions, and deviations from typical environmental samples.
- Consult project QA documents for specific instructions.

February 27, 2019

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1900681
Client Reference : Raytheon Main, 532.30

Enclosed are the results for sample(s) received on February 19, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/27/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-021919	1900681-01	Lab prepared water	2/19/19 8:00	2/19/19 16:15
MW-13	1900681-02	Groundwater	2/19/19 9:25	2/19/19 16:15
MW-08	1900681-03	Groundwater	2/19/19 13:55	2/19/19 16:15
MW-18	1900681-04	Groundwater	2/19/19 16:05	2/19/19 16:15

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/27/2019

Client Sample ID TB-021919

Lab ID: 1900681-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 17:41	
1,1,1-Trichloroethane	ND	0.50	0.18	1	B9B0470	02/21/2019	02/21/19 17:41	
1,1,2,2-Tetrachloroethane	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 17:41	
1,1,2-Trichloroethane	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 17:41	
1,1-Dichloroethane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 17:41	
1,1-Dichloroethene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 17:41	
1,1-Dichloropropene	ND	0.50	0.21	1	B9B0470	02/21/2019	02/21/19 17:41	
1,2,3-Trichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 17:41	
1,2,3-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 17:41	
1,2,4-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 17:41	
1,2,4-Trimethylbenzene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 17:41	
1,2-Dibromo-3-chloropropane	ND	0.50	0.24	1	B9B0470	02/21/2019	02/21/19 17:41	
1,2-Dibromoethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 17:41	
1,2-Dichlorobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 17:41	
1,2-Dichloroethane	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 17:41	
1,2-Dichloropropane	ND	0.50	0.36	1	B9B0470	02/21/2019	02/21/19 17:41	
1,3,5-Trimethylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 17:41	
1,3-Dichlorobenzene	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 17:41	
1,3-Dichloropropane	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 17:41	
1,4-Dichlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 17:41	
2,2-Dichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 17:41	
2-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 17:41	
4-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 17:41	
4-Isopropyltoluene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 17:41	
Benzene	ND	0.50	0.03	1	B9B0470	02/21/2019	02/21/19 17:41	
Bromobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 17:41	
Bromodichloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 17:41	
Bromoform	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 17:41	
Bromomethane	ND	0.50	0.42	1	B9B0470	02/21/2019	02/21/19 17:41	
Carbon tetrachloride	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 17:41	
Chlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 17:41	
Chloroethane	ND	0.50	0.40	1	B9B0470	02/21/2019	02/21/19 17:41	
Chloroform	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 17:41	
Chloromethane	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 17:41	
cis-1,2-Dichloroethene	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 17:41	
cis-1,3-Dichloropropene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 17:41	
Dibromochloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 17:41	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/27/2019

Client Sample ID TB-021919

Lab ID: 1900681-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 17:41	
Dichlorodifluoromethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 17:41	
Ethylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 17:41	
Hexachlorobutadiene	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 17:41	
Isopropylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 17:41	
m,p-Xylene	ND	1.0	0.08	1	B9B0470	02/21/2019	02/21/19 17:41	
Methylene chloride	**0.72**	1.0	0.46	1	B9B0470	02/21/2019	02/21/19 17:41	J
n-Butylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 17:41	
n-Propylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 17:41	
Naphthalene	ND	0.50	0.15	1	B9B0470	02/21/2019	02/21/19 17:41	
o-Xylene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 17:41	
sec-Butylbenzene	ND	0.50	0.04	1	B9B0470	02/21/2019	02/21/19 17:41	
Styrene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 17:41	
tert-Butylbenzene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 17:41	
Tetrachloroethene	ND	0.50	0.07	1	B9B0584	02/26/2019	02/26/19 13:56	
Toluene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 17:41	
trans-1,2-Dichloroethene	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 17:41	
Trichloroethene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 17:41	
Trichlorofluoromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 17:41	
Vinyl chloride	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 17:41	
Surrogate: 1,2-Dichloroethane-d4	*91.4 %*	*57 - 152*			B9B0584	02/26/2019	*02/26/19 13:56*	
Surrogate: 1,2-Dichloroethane-d4	*99.9 %*	*57 - 152*			B9B0470	02/21/2019	*02/21/19 17:41*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*			B9B0584	02/26/2019	*02/26/19 13:56*	
Surrogate: 4-Bromofluorobenzene	*110 %*	*62 - 134*			B9B0470	02/21/2019	*02/21/19 17:41*	
Surrogate: Dibromofluoromethane	*91.4 %*	*56 - 167*			B9B0470	02/21/2019	*02/21/19 17:41*	
Surrogate: Dibromofluoromethane	*86.1 %*	*56 - 167*			B9B0584	02/26/2019	*02/26/19 13:56*	
Surrogate: Toluene-d8	*105 %*	*33 - 170*			B9B0584	02/26/2019	*02/26/19 13:56*	
Surrogate: Toluene-d8	*109 %*	*33 - 170*			B9B0470	02/21/2019	*02/21/19 17:41*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/27/2019

Client Sample ID MW-13

Lab ID: 1900681-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 18:06	
1,1,1-Trichloroethane	ND	0.50	0.18	1	B9B0470	02/21/2019	02/21/19 18:06	
1,1,2,2-Tetrachloroethane	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 18:06	
1,1,2-Trichloroethane	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 18:06	
1,1-Dichloroethane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 18:06	
1,1-Dichloroethene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 18:06	
1,1-Dichloropropene	ND	0.50	0.21	1	B9B0470	02/21/2019	02/21/19 18:06	
1,2,3-Trichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 18:06	
1,2,3-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 18:06	
1,2,4-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 18:06	
1,2,4-Trimethylbenzene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:06	
1,2-Dibromo-3-chloropropane	ND	0.50	0.24	1	B9B0470	02/21/2019	02/21/19 18:06	
1,2-Dibromoethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 18:06	
1,2-Dichlorobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 18:06	
1,2-Dichloroethane	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 18:06	
1,2-Dichloropropane	ND	0.50	0.36	1	B9B0470	02/21/2019	02/21/19 18:06	
1,3,5-Trimethylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:06	
1,3-Dichlorobenzene	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 18:06	
1,3-Dichloropropane	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:06	
1,4-Dichlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:06	
2,2-Dichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 18:06	
2-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:06	
4-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:06	
4-Isopropyltoluene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 18:06	
Benzene	ND	0.50	0.03	1	B9B0470	02/21/2019	02/21/19 18:06	
Bromobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 18:06	
Bromodichloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:06	
Bromoform	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 18:06	
Bromomethane	ND	0.50	0.42	1	B9B0470	02/21/2019	02/21/19 18:06	
Carbon tetrachloride	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 18:06	
Chlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:06	
Chloroethane	ND	0.50	0.40	1	B9B0470	02/21/2019	02/21/19 18:06	
Chloroform	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 18:06	
Chloromethane	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:06	
cis-1,2-Dichloroethene	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 18:06	
cis-1,3-Dichloropropene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:06	
Dibromochloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:06	

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Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/27/2019

Client Sample ID MW-13

Lab ID: 1900681-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 18:06	
Dichlorodifluoromethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 18:06	
Ethylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:06	
Hexachlorobutadiene	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:06	
Isopropylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:06	
m,p-Xylene	ND	1.0	0.08	1	B9B0470	02/21/2019	02/21/19 18:06	
Methylene chloride	ND	1.0	0.46	1	B9B0470	02/21/2019	02/21/19 18:06	
n-Butylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:06	
n-Propylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:06	
Naphthalene	ND	0.50	0.15	1	B9B0470	02/21/2019	02/21/19 18:06	
o-Xylene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:06	
sec-Butylbenzene	ND	0.50	0.04	1	B9B0470	02/21/2019	02/21/19 18:06	
Styrene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 18:06	
tert-Butylbenzene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 18:06	
Tetrachloroethene	**0.15**	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:06	J
Toluene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:06	
trans-1,2-Dichloroethene	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 18:06	
Trichloroethene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:06	
Trichlorofluoromethane	**1.8**	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:06	
Vinyl chloride	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:06	
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*57 - 152*			B9B0470	02/21/2019	*02/21/19 18:06*	
Surrogate: 4-Bromofluorobenzene	*110 %*	*62 - 134*			B9B0470	02/21/2019	*02/21/19 18:06*	
Surrogate: Dibromofluoromethane	*93.7 %*	*56 - 167*			B9B0470	02/21/2019	*02/21/19 18:06*	
Surrogate: Toluene-d8	*109 %*	*33 - 170*			B9B0470	02/21/2019	*02/21/19 18:06*	

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Client Sample ID MW-13

Lab ID: 1900681-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.05	1	B9B0524	02/22/2019	02/22/19 16:01	
Surrogate: 1,2-Dichlorobenzene-d4	*67.6 %*		*22 - 117*		B9B0524	02/22/2019	*02/22/19 16:01*	
Surrogate: 2-Fluorobiphenyl	*65.0 %*		*20 - 131*		B9B0524	02/22/2019	*02/22/19 16:01*	
Surrogate: 4-Terphenyl-d14	*72.7 %*		*24 - 135*		B9B0524	02/22/2019	*02/22/19 16:01*	
Surrogate: Nitrobenzene-d5	*115 %*		*6 - 124*		B9B0524	02/22/2019	*02/22/19 16:01*	

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Client Sample ID MW-08

Lab ID: 1900681-03

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 20:33	
1,1,1-Trichloroethane	ND	0.50	0.18	1	B9B0470	02/21/2019	02/21/19 20:33	
1,1,2,2-Tetrachloroethane	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 20:33	
1,1,2-Trichloroethane	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 20:33	
1,1-Dichloroethane	**0.44**	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 20:33	J
1,1-Dichloroethene	**75**	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 20:33	
1,1-Dichloropropene	ND	0.50	0.21	1	B9B0470	02/21/2019	02/21/19 20:33	
1,2,3-Trichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 20:33	
1,2,3-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 20:33	
1,2,4-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 20:33	
1,2,4-Trimethylbenzene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 20:33	
1,2-Dibromo-3-chloropropane	ND	0.50	0.24	1	B9B0470	02/21/2019	02/21/19 20:33	
1,2-Dibromoethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 20:33	
1,2-Dichlorobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 20:33	
1,2-Dichloroethane	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 20:33	
1,2-Dichloropropane	ND	0.50	0.36	1	B9B0470	02/21/2019	02/21/19 20:33	
1,3,5-Trimethylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:33	
1,3-Dichlorobenzene	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 20:33	
1,3-Dichloropropane	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:33	
1,4-Dichlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:33	
2,2-Dichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 20:33	
2-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 20:33	
4-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 20:33	
4-Isopropyltoluene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 20:33	
Benzene	**0.10**	0.50	0.03	1	B9B0470	02/21/2019	02/21/19 20:33	J
Bromobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 20:33	
Bromodichloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 20:33	
Bromoform	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 20:33	
Bromomethane	ND	0.50	0.42	1	B9B0470	02/21/2019	02/21/19 20:33	
Carbon tetrachloride	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 20:33	
Chlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:33	
Chloroethane	ND	0.50	0.40	1	B9B0470	02/21/2019	02/21/19 20:33	
Chloroform	**0.43**	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 20:33	J
Chloromethane	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 20:33	
cis-1,2-Dichloroethene	**3.8**	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 20:33	
cis-1,3-Dichloropropene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:33	
Dibromochloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 20:33	

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San Diego , CA 92122		Reported :	02/27/2019

Client Sample ID MW-08

Lab ID: 1900681-03

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 20:33	
Dichlorodifluoromethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 20:33	
Ethylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:33	
Hexachlorobutadiene	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 20:33	
Isopropylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:33	
m,p-Xylene	ND	1.0	0.08	1	B9B0470	02/21/2019	02/21/19 20:33	
Methylene chloride	ND	1.0	0.46	1	B9B0470	02/21/2019	02/21/19 20:33	
n-Butylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:33	
n-Propylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:33	
Naphthalene	ND	0.50	0.15	1	B9B0470	02/21/2019	02/21/19 20:33	
o-Xylene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:33	
sec-Butylbenzene	ND	0.50	0.04	1	B9B0470	02/21/2019	02/21/19 20:33	
Styrene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 20:33	
tert-Butylbenzene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 20:33	
Tetrachloroethene	**0.24**	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:33	J
Toluene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:33	
trans-1,2-Dichloroethene	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 20:33	
Trichloroethene	**93**	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:33	
Trichlorofluoromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 20:33	
Vinyl chloride	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:33	
Surrogate: 1,2-Dichloroethane-d4	*97.5 %*	*57 - 152*			B9B0470	02/21/2019	*02/21/19 20:33*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*			B9B0470	02/21/2019	*02/21/19 20:33*	
Surrogate: Dibromofluoromethane	*90.8 %*	*56 - 167*			B9B0470	02/21/2019	*02/21/19 20:33*	
Surrogate: Toluene-d8	*100 %*	*33 - 170*			B9B0470	02/21/2019	*02/21/19 20:33*	

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Client Sample ID MW-08

Lab ID: 1900681-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**6.7**	0.20	0.05	1	B9B0524	02/22/2019	02/22/19 16:28	
Surrogate: 1,2-Dichlorobenzene-d4	*72.0 %*	*22 - 117*			B9B0524	02/22/2019	*02/22/19 16:28*	
Surrogate: 2-Fluorobiphenyl	*66.7 %*	*20 - 131*			B9B0524	02/22/2019	*02/22/19 16:28*	
Surrogate: 4-Terphenyl-d14	*71.1 %*	*24 - 135*			B9B0524	02/22/2019	*02/22/19 16:28*	
Surrogate: Nitrobenzene-d5	*123 %*	*6 - 124*			B9B0524	02/22/2019	*02/22/19 16:28*	

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Client Sample ID MW-18

Lab ID: 1900681-04

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 18:30	
1,1,1-Trichloroethane	ND	0.50	0.18	1	B9B0470	02/21/2019	02/21/19 18:30	
1,1,2,2-Tetrachloroethane	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 18:30	
1,1,2-Trichloroethane	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 18:30	
1,1-Dichloroethane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 18:30	
1,1-Dichloroethene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 18:30	
1,1-Dichloropropene	ND	0.50	0.21	1	B9B0470	02/21/2019	02/21/19 18:30	
1,2,3-Trichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 18:30	
1,2,3-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 18:30	
1,2,4-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 18:30	
1,2,4-Trimethylbenzene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:30	
1,2-Dibromo-3-chloropropane	ND	0.50	0.24	1	B9B0470	02/21/2019	02/21/19 18:30	
1,2-Dibromoethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 18:30	
1,2-Dichlorobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 18:30	
1,2-Dichloroethane	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 18:30	
1,2-Dichloropropane	ND	0.50	0.36	1	B9B0470	02/21/2019	02/21/19 18:30	
1,3,5-Trimethylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:30	
1,3-Dichlorobenzene	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 18:30	
1,3-Dichloropropane	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:30	
1,4-Dichlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:30	
2,2-Dichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 18:30	
2-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:30	
4-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:30	
4-Isopropyltoluene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 18:30	
Benzene	ND	0.50	0.03	1	B9B0470	02/21/2019	02/21/19 18:30	
Bromobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 18:30	
Bromodichloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:30	
Bromoform	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 18:30	
Bromomethane	ND	0.50	0.42	1	B9B0470	02/21/2019	02/21/19 18:30	
Carbon tetrachloride	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 18:30	
Chlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:30	
Chloroethane	ND	0.50	0.40	1	B9B0470	02/21/2019	02/21/19 18:30	
Chloroform	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 18:30	
Chloromethane	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:30	
cis-1,2-Dichloroethene	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 18:30	
cis-1,3-Dichloropropene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:30	
Dibromochloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:30	

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Client Sample ID MW-18

Lab ID: 1900681-04

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 18:30	
Dichlorodifluoromethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 18:30	
Ethylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:30	
Hexachlorobutadiene	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:30	
Isopropylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:30	
m,p-Xylene	ND	1.0	0.08	1	B9B0470	02/21/2019	02/21/19 18:30	
Methylene chloride	ND	1.0	0.46	1	B9B0470	02/21/2019	02/21/19 18:30	
n-Butylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:30	
n-Propylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:30	
Naphthalene	ND	0.50	0.15	1	B9B0470	02/21/2019	02/21/19 18:30	
o-Xylene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:30	
sec-Butylbenzene	ND	0.50	0.04	1	B9B0470	02/21/2019	02/21/19 18:30	
Styrene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 18:30	
tert-Butylbenzene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 18:30	
Tetrachloroethene	**0.12**	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:30	J
Toluene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:30	
trans-1,2-Dichloroethene	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 18:30	
Trichloroethene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:30	
Trichlorofluoromethane	**0.76**	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:30	
Vinyl chloride	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:30	
Surrogate: 1,2-Dichloroethane-d4	*99.4 %*	*57 - 152*			B9B0470	02/21/2019	*02/21/19 18:30*	
Surrogate: 4-Bromofluorobenzene	*111 %*	*62 - 134*			B9B0470	02/21/2019	*02/21/19 18:30*	
Surrogate: Dibromofluoromethane	*90.1 %*	*56 - 167*			B9B0470	02/21/2019	*02/21/19 18:30*	
Surrogate: Toluene-d8	*111 %*	*33 - 170*			B9B0470	02/21/2019	*02/21/19 18:30*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
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San Diego , CA 92122		Reported :	02/27/2019

Client Sample ID MW-18

Lab ID: 1900681-04

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.05	1	B9B0524	02/22/2019	02/22/19 16:54	
Surrogate: 1,2-Dichlorobenzene-d4	*59.4 %*	*22 - 117*			B9B0524	02/22/2019	*02/22/19 16:54*	
Surrogate: 2-Fluorobiphenyl	*52.1 %*	*20 - 131*			B9B0524	02/22/2019	*02/22/19 16:54*	
Surrogate: 4-Terphenyl-d14	*59.3 %*	*24 - 135*			B9B0524	02/22/2019	*02/22/19 16:54*	
Surrogate: Nitrobenzene-d5	*97.9 %*	*6 - 124*			B9B0524	02/22/2019	*02/22/19 16:54*	

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QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0470 - MSVOA_W										
Blank (B9B0470-BLK1)					Prepared: 2/21/2019 Analyzed: 2/21/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0470 - MSVOA_W (continued)										
Blank (B9B0470-BLK1) - Continued					Prepared: 2/21/2019 Analyzed: 2/21/2019					
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*25.56*			*25.0000*		*102*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.49*			*25.0000*		*110*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.44*			*25.0000*		*93.8*	*56 - 167*			
Surrogate: Toluene-d8	*27.38*			*25.0000*		*110*	*33 - 170*			
LCS (B9B0470-BS1)					Prepared: 2/21/2019 Analyzed: 2/21/2019					
1,1,1,2-Tetrachloroethane	16.9900	0.50	0.11	20.0000		85.0	80 - 137			
1,1,1-Trichloroethane	16.1200	0.50	0.18	20.0000		80.6	75 - 148			
1,1,2,2-Tetrachloroethane	15.6500	0.50	0.17	20.0000		78.2	64 - 118			
1,1,2-Trichloroethane	17.9100	0.50	0.12	20.0000		89.6	77 - 113			
1,1-Dichloroethane	17.2900	0.50	0.16	20.0000		86.4	72 - 131			
1,1-Dichloroethene	17.1400	0.50	0.09	20.0000		85.7	75 - 132			
1,1-Dichloropropene	17.9500	0.50	0.21	20.0000		89.8	84 - 141			
1,2,3-Trichloropropane	16.2900	0.50	0.16	20.0000		81.4	65 - 111			
1,2,3-Trichlorobenzene	19.0800	0.50	0.12	20.0000		95.4	79 - 117			
1,2,4-Trichlorobenzene	18.8500	0.50	0.12	20.0000		94.2	78 - 121			
1,2,4-Trimethylbenzene	18.3400	0.50	0.08	20.0000		91.7	83 - 125			
1,2-Dibromo-3-chloropropane	17.6300	0.50	0.24	20.0000		88.2	54 - 116			
1,2-Dibromoethane	18.7100	0.50	0.11	20.0000		93.6	79 - 118			
1,2-Dichlorobenzene	18.9600	0.50	0.09	20.0000		94.8	82 - 115			
1,2-Dichloroethane	16.8700	0.50	0.19	20.0000		84.4	76 - 115			
1,2-Dichloropropane	16.1800	0.50	0.36	20.0000		80.9	74 - 113			
1,3,5-Trimethylbenzene	18.8000	0.50	0.05	20.0000		94.0	83 - 126			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0470 - MSVOA_W (continued)										
LCS (B9B0470-BS1) - Continued					Prepared: 2/21/2019 Analyzed: 2/21/2019					
1,3-Dichlorobenzene	18.6000	0.50	0.10	20.0000		93.0	84 - 118			
1,3-Dichloropropane	15.2900	0.50	0.07	20.0000		76.4	72 - 116			
1,4-Dichlorobenzene	18.4000	0.50	0.07	20.0000		92.0	83 - 112			
2,2-Dichloropropane	17.3200	0.50	0.16	20.0000		86.6	72 - 150			
2-Chlorotoluene	18.2000	0.50	0.08	20.0000		91.0	82 - 120			
4-Chlorotoluene	18.5700	0.50	0.08	20.0000		92.8	81 - 121			
4-Isopropyltoluene	19.0800	0.50	0.06	20.0000		95.4	86 - 124			
Benzene	35.1800	0.50	0.03	40.0000		88.0	81 - 118			
Bromobenzene	17.1200	0.50	0.09	20.0000		85.6	82 - 117			
Bromodichloromethane	16.2100	0.50	0.14	20.0000		81.0	80 - 122			
Bromoform	17.7600	0.50	0.13	20.0000		88.8	53 - 145			
Bromomethane	14.5000	0.50	0.42	20.0000		72.5	30 - 204			
Carbon tetrachloride	17.6100	0.50	0.19	20.0000		88.0	77 - 157			
Chlorobenzene	18.2900	0.50	0.07	20.0000		91.4	86 - 113			
Chloroethane	17.6600	0.50	0.40	20.0000		88.3	70 - 160			
Chloroform	16.4700	0.50	0.17	20.0000		82.4	66 - 136			
Chloromethane	15.3800	0.50	0.08	20.0000		76.9	52 - 138			
cis-1,2-Dichloroethene	17.0900	0.50	0.13	20.0000		85.4	71 - 128			
cis-1,3-Dichloropropene	19.2200	0.50	0.05	20.0000		96.1	71 - 123			
Dibromochloromethane	15.6400	0.50	0.14	20.0000		78.2	78 - 140			
Dibromomethane	16.7000	0.50	0.10	20.0000		83.5	78 - 109			
Dichlorodifluoromethane	12.8700	0.50	0.10	20.0000		64.4	64 - 144			
Ethylbenzene	37.7600	0.50	0.07	40.0000		94.4	90 - 116			
Hexachlorobutadiene	19.2600	0.50	0.14	20.0000		96.3	81 - 129			
Isopropylbenzene	19.1900	0.50	0.05	20.0000		96.0	83 - 129			
m,p-Xylene	41.5500	1.0	0.08	40.0000		104	88 - 124			
Methylene chloride	17.8800	1.0	0.46	20.0000		89.4	76 - 137			
n-Butylbenzene	18.9200	0.50	0.05	20.0000		94.6	83 - 129			
n-Propylbenzene	18.5400	0.50	0.07	20.0000		92.7	85 - 124			
Naphthalene	18.0200	0.50	0.15	20.0000		90.1	67 - 113			
o-Xylene	41.2400	0.50	0.05	40.0000		103	82 - 129			
sec-Butylbenzene	18.8200	0.50	0.04	20.0000		94.1	86 - 127			
Styrene	20.8200	0.50	0.06	20.0000		104	83 - 122			
tert-Butylbenzene	18.9800	0.50	0.06	20.0000		94.9	84 - 130			
Tetrachloroethene	17.3700	0.50	0.07	20.0000		86.8	87 - 123			L4
Toluene	41.2000	0.50	0.07	40.0000		103	84 - 115			
trans-1,2-Dichloroethene	16.9600	0.50	0.11	20.0000		84.8	60 - 148			
Trichloroethene	16.8600	0.50	0.05	20.0000		84.3	79 - 129			
Trichlorofluoromethane	15.7400	0.50	0.14	20.0000		78.7	68 - 162			
Vinyl chloride	15.9500	0.50	0.05	20.0000		79.8	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*23.48*			*25.0000*		*93.9*	*57 - 152*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0470 - MSVOA_W (continued)										
LCS (B9B0470-BS1) - Continued					Prepared: 2/21/2019 Analyzed: 2/21/2019					
Surrogate: 4-Bromofluorobenzene	*28.87*			*25.0000*		*115*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.37*			*25.0000*		*93.5*	*56 - 167*			
Surrogate: Toluene-d8	*27.16*			*25.0000*		*109*	*33 - 170*			
LCS Dup (B9B0470-BSD1)					Prepared: 2/21/2019 Analyzed: 2/21/2019					
1,1,1,2-Tetrachloroethane	16.8000	0.50	0.11	20.0000		84.0	80 - 137	1.12	20	
1,1,1-Trichloroethane	16.1600	0.50	0.18	20.0000		80.8	75 - 148	0.248	20	
1,1,2,2-Tetrachloroethane	16.5200	0.50	0.17	20.0000		82.6	64 - 118	5.41	20	
1,1,2-Trichloroethane	19.0500	0.50	0.12	20.0000		95.2	77 - 113	6.17	20	
1,1-Dichloroethane	16.8400	0.50	0.16	20.0000		84.2	72 - 131	2.64	20	
1,1-Dichloroethene	16.4400	0.50	0.09	20.0000		82.2	75 - 132	4.17	20	
1,1-Dichloropropene	17.9300	0.50	0.21	20.0000		89.6	84 - 141	0.111	20	
1,2,3-Trichloropropane	16.8600	0.50	0.16	20.0000		84.3	65 - 111	3.44	20	
1,2,3-Trichlorobenzene	19.2900	0.50	0.12	20.0000		96.4	79 - 117	1.09	20	
1,2,4-Trichlorobenzene	18.9200	0.50	0.12	20.0000		94.6	78 - 121	0.371	20	
1,2,4-Trimethylbenzene	18.3400	0.50	0.08	20.0000		91.7	83 - 125	0.00	20	
1,2-Dibromo-3-chloropropane	18.3600	0.50	0.24	20.0000		91.8	54 - 116	4.06	20	
1,2-Dibromoethane	19.3300	0.50	0.11	20.0000		96.6	79 - 118	3.26	20	
1,2-Dichlorobenzene	19.1700	0.50	0.09	20.0000		95.8	82 - 115	1.10	20	
1,2-Dichloroethane	17.5400	0.50	0.19	20.0000		87.7	76 - 115	3.89	20	
1,2-Dichloropropane	16.4700	0.50	0.36	20.0000		82.4	74 - 113	1.78	20	
1,3,5-Trimethylbenzene	18.7900	0.50	0.05	20.0000		94.0	83 - 126	0.0532	20	
1,3-Dichlorobenzene	18.7000	0.50	0.10	20.0000		93.5	84 - 118	0.536	20	
1,3-Dichloropropane	15.4400	0.50	0.07	20.0000		77.2	72 - 116	0.976	20	
1,4-Dichlorobenzene	18.5700	0.50	0.07	20.0000		92.8	83 - 112	0.920	20	
2,2-Dichloropropane	17.0000	0.50	0.16	20.0000		85.0	72 - 150	1.86	20	
2-Chlorotoluene	18.1100	0.50	0.08	20.0000		90.6	82 - 120	0.496	20	
4-Chlorotoluene	18.4900	0.50	0.08	20.0000		92.4	81 - 121	0.432	20	
4-Isopropyltoluene	18.8900	0.50	0.06	20.0000		94.4	86 - 124	1.00	20	
Benzene	35.6700	0.50	0.03	40.0000		89.2	81 - 118	1.38	20	
Bromobenzene	17.4800	0.50	0.09	20.0000		87.4	82 - 117	2.08	20	
Bromodichloromethane	16.5300	0.50	0.14	20.0000		82.6	80 - 122	1.95	20	
Bromoform	17.9600	0.50	0.13	20.0000		89.8	53 - 145	1.12	20	
Bromomethane	15.2600	0.50	0.42	20.0000		76.3	30 - 204	5.11	20	
Carbon tetrachloride	17.6200	0.50	0.19	20.0000		88.1	77 - 157	0.0568	20	
Chlorobenzene	18.0900	0.50	0.07	20.0000		90.4	86 - 113	1.10	20	
Chloroethane	16.0800	0.50	0.40	20.0000		80.4	70 - 160	9.37	20	
Chloroform	16.4700	0.50	0.17	20.0000		82.4	66 - 136	0.00	20	
Chloromethane	14.7000	0.50	0.08	20.0000		73.5	52 - 138	4.52	20	
cis-1,2-Dichloroethene	17.0300	0.50	0.13	20.0000		85.2	71 - 128	0.352	20	
cis-1,3-Dichloropropene	19.5300	0.50	0.05	20.0000		97.6	71 - 123	1.60	20	
Dibromochloromethane	15.8300	0.50	0.14	20.0000		79.2	78 - 140	1.21	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0470 - MSVOA_W (continued)										
LCS Dup (B9B0470-BSD1) - Continued					Prepared: 2/21/2019 Analyzed: 2/21/2019					
Dibromomethane	17.4000	0.50	0.10	20.0000		87.0	78 - 109	4.11	20	
Dichlorodifluoromethane	12.2500	0.50	0.10	20.0000		61.2	64 - 144	4.94	20	L4
Ethylbenzene	37.4000	0.50	0.07	40.0000		93.5	90 - 116	0.958	20	
Hexachlorobutadiene	18.8300	0.50	0.14	20.0000		94.2	81 - 129	2.26	20	
Isopropylbenzene	19.2800	0.50	0.05	20.0000		96.4	83 - 129	0.468	20	
m,p-Xylene	41.3100	1.0	0.08	40.0000		103	88 - 124	0.579	20	
Methylene chloride	18.0900	1.0	0.46	20.0000		90.4	76 - 137	1.17	20	
n-Butylbenzene	18.5200	0.50	0.05	20.0000		92.6	83 - 129	2.14	20	
n-Propylbenzene	18.5100	0.50	0.07	20.0000		92.6	85 - 124	0.162	20	
Naphthalene	18.3800	0.50	0.15	20.0000		91.9	67 - 113	1.98	20	
o-Xylene	40.6700	0.50	0.05	40.0000		102	82 - 129	1.39	20	
sec-Butylbenzene	18.6500	0.50	0.04	20.0000		93.2	86 - 127	0.907	20	
Styrene	20.7400	0.50	0.06	20.0000		104	83 - 122	0.385	20	
tert-Butylbenzene	18.8500	0.50	0.06	20.0000		94.2	84 - 130	0.687	20	
Tetrachloroethene	17.2400	0.50	0.07	20.0000		86.2	87 - 123	0.751	20	L4
Toluene	41.7700	0.50	0.07	40.0000		104	84 - 115	1.37	20	
trans-1,2-Dichloroethene	16.5800	0.50	0.11	20.0000		82.9	60 - 148	2.27	20	
Trichloroethene	16.9200	0.50	0.05	20.0000		84.6	79 - 129	0.355	20	
Trichlorofluoromethane	15.4200	0.50	0.14	20.0000		77.1	68 - 162	2.05	20	
Vinyl chloride	14.8300	0.50	0.05	20.0000		74.2	73 - 128	7.28	20	
Surrogate: 1,2-Dichloroethane-d4	*24.19*			*25.0000*		*96.8*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*28.88*			*25.0000*		*116*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.59*			*25.0000*		*94.4*	*56 - 167*			
Surrogate: Toluene-d8	*27.41*			*25.0000*		*110*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/27/2019

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0584 - MSVOA_W										
Blank (B9B0584-BLK1)					Prepared: 2/26/2019 Analyzed: 2/26/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/27/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0584 - MSVOA_W (continued)										
Blank (B9B0584-BLK1) - Continued					Prepared: 2/26/2019 Analyzed: 2/26/2019					
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*22.98*			*25.0000*		*91.9*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.48*			*25.0000*		*110*	*62 - 134*			
Surrogate: Dibromofluoromethan	*21.94*			*25.0000*		*87.8*	*56 - 167*			
Surrogate: Toluene-d8	*25.95*			*25.0000*		*104*	*33 - 170*			
LCS (B9B0584-BS1)					Prepared: 2/26/2019 Analyzed: 2/26/2019					
1,1,1,2-Tetrachloroethane	18.6600	0.50	0.11	20.0000		93.3	80 - 137			
1,1,1-Trichloroethane	16.6500	0.50	0.18	20.0000		83.2	75 - 148			
1,1,2,2-Tetrachloroethane	17.6900	0.50	0.17	20.0000		88.4	64 - 118			
1,1,2-Trichloroethane	19.2300	0.50	0.12	20.0000		96.2	77 - 113			
1,1-Dichloroethane	17.7700	0.50	0.16	20.0000		88.8	72 - 131			
1,1-Dichloroethene	18.2500	0.50	0.09	20.0000		91.2	75 - 132			
1,1-Dichloropropene	19.1500	0.50	0.21	20.0000		95.8	84 - 141			
1,2,3-Trichloropropane	18.2400	0.50	0.16	20.0000		91.2	65 - 111			
1,2,3-Trichlorobenzene	20.3200	0.50	0.12	20.0000		102	79 - 117			
1,2,4-Trichlorobenzene	20.5500	0.50	0.12	20.0000		103	78 - 121			
1,2,4-Trimethylbenzene	20.1900	0.50	0.08	20.0000		101	83 - 125			
1,2-Dibromo-3-chloropropane	20.6900	0.50	0.24	20.0000		103	54 - 116			
1,2-Dibromoethane	20.3200	0.50	0.11	20.0000		102	79 - 118			
1,2-Dichlorobenzene	20.8600	0.50	0.09	20.0000		104	82 - 115			
1,2-Dichloroethane	17.7100	0.50	0.19	20.0000		88.6	76 - 115			
1,2-Dichloropropane	17.3500	0.50	0.36	20.0000		86.8	74 - 113			
1,3,5-Trimethylbenzene	20.3600	0.50	0.05	20.0000		102	83 - 126			
1,3-Dichlorobenzene	20.5100	0.50	0.10	20.0000		103	84 - 118			
1,3-Dichloropropane	16.9900	0.50	0.07	20.0000		85.0	72 - 116			

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Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/27/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0584 - MSVOA_W (continued)										
LCS (B9B0584-BS1) - Continued					Prepared: 2/26/2019 Analyzed: 2/26/2019					
1,4-Dichlorobenzene	20.3200	0.50	0.07	20.0000		102	83 - 112			
2,2-Dichloropropane	18.1900	0.50	0.16	20.0000		91.0	72 - 150			
2-Chlorotoluene	19.8000	0.50	0.08	20.0000		99.0	82 - 120			
4-Chlorotoluene	20.2800	0.50	0.08	20.0000		101	81 - 121			
4-Isopropyltoluene	21.0500	0.50	0.06	20.0000		105	86 - 124			
Benzene	37.4900	0.50	0.03	40.0000		93.7	81 - 118			
Bromobenzene	19.1100	0.50	0.09	20.0000		95.6	82 - 117			
Bromodichloromethane	17.3600	0.50	0.14	20.0000		86.8	80 - 122			
Bromoform	20.2900	0.50	0.13	20.0000		101	53 - 145			
Bromomethane	14.3400	0.50	0.42	20.0000		71.7	30 - 204			
Carbon tetrachloride	18.8000	0.50	0.19	20.0000		94.0	77 - 157			
Chlorobenzene	20.0200	0.50	0.07	20.0000		100	86 - 113			
Chloroethane	18.1100	0.50	0.40	20.0000		90.6	70 - 160			
Chloroform	17.1100	0.50	0.17	20.0000		85.6	66 - 136			
Chloromethane	13.5300	0.50	0.08	20.0000		67.6	52 - 138			
cis-1,2-Dichloroethene	17.6300	0.50	0.13	20.0000		88.2	71 - 128			
cis-1,3-Dichloropropene	20.7800	0.50	0.05	20.0000		104	71 - 123			
Dibromochloromethane	17.7800	0.50	0.14	20.0000		88.9	78 - 140			
Dibromomethane	17.5500	0.50	0.10	20.0000		87.8	78 - 109			
Dichlorodifluoromethane	10.0900	0.50	0.10	20.0000		50.4	64 - 144			
Ethylbenzene	41.4000	0.50	0.07	40.0000		104	90 - 116			
Hexachlorobutadiene	20.1900	0.50	0.14	20.0000		101	81 - 129			
Isopropylbenzene	20.9700	0.50	0.05	20.0000		105	83 - 129			
m,p-Xylene	45.5500	1.0	0.08	40.0000		114	88 - 124			
Methylene chloride	19.3300	1.0	0.46	20.0000		96.6	76 - 137			
n-Butylbenzene	20.5700	0.50	0.05	20.0000		103	83 - 129			
n-Propylbenzene	20.1800	0.50	0.07	20.0000		101	85 - 124			
Naphthalene	19.7000	0.50	0.15	20.0000		98.5	67 - 113			
o-Xylene	44.9600	0.50	0.05	40.0000		112	82 - 129			
sec-Butylbenzene	20.6200	0.50	0.04	20.0000		103	86 - 127			
Styrene	22.9600	0.50	0.06	20.0000		115	83 - 122			
tert-Butylbenzene	20.8900	0.50	0.06	20.0000		104	84 - 130			
Tetrachloroethene	19.0500	0.50	0.07	20.0000		95.2	87 - 123			
Toluene	43.9800	0.50	0.07	40.0000		110	84 - 115			
trans-1,2-Dichloroethene	17.2800	0.50	0.11	20.0000		86.4	60 - 148			
Trichloroethene	17.9700	0.50	0.05	20.0000		89.8	79 - 129			
Trichlorofluoromethane	16.2200	0.50	0.14	20.0000		81.1	68 - 162			
Vinyl chloride	15.2800	0.50	0.05	20.0000		76.4	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*21.64*			*25.0000*		*86.6*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*28.80*			*25.0000*		*115*	*62 - 134*			
Surrogate: Dibromofluoromethan	*21.59*			*25.0000*		*86.4*	*56 - 167*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/27/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0584 - MSVOA_W (continued)										
LCS (B9B0584-BS1) - Continued					Prepared: 2/26/2019 Analyzed: 2/26/2019					
Surrogate: Toluene-d8	*26.34*			*25.0000*		*105*	*33 - 170*			
LCS Dup (B9B0584-BSD1)					Prepared: 2/26/2019 Analyzed: 2/26/2019					
1,1,1,2-Tetrachloroethane	19.1800	0.50	0.11	20.0000		95.9	80 - 137	2.75	20	
1,1,1-Trichloroethane	16.6700	0.50	0.18	20.0000		83.4	75 - 148	0.120	20	
1,1,2,2-Tetrachloroethane	18.3400	0.50	0.17	20.0000		91.7	64 - 118	3.61	20	
1,1,2-Trichloroethane	19.8700	0.50	0.12	20.0000		99.4	77 - 113	3.27	20	
1,1-Dichloroethane	16.0400	0.50	0.16	20.0000		80.2	72 - 131	10.2	20	
1,1-Dichloroethene	16.1400	0.50	0.09	20.0000		80.7	75 - 132	12.3	20	
1,1-Dichloropropene	19.4300	0.50	0.21	20.0000		97.2	84 - 141	1.45	20	
1,2,3-Trichloropropane	18.7600	0.50	0.16	20.0000		93.8	65 - 111	2.81	20	
1,2,3-Trichlorobenzene	22.1100	0.50	0.12	20.0000		111	79 - 117	8.44	20	
1,2,4-Trichlorobenzene	21.8400	0.50	0.12	20.0000		109	78 - 121	6.09	20	
1,2,4-Trimethylbenzene	20.7600	0.50	0.08	20.0000		104	83 - 125	2.78	20	
1,2-Dibromo-3-chloropropane	22.0500	0.50	0.24	20.0000		110	54 - 116	6.36	20	
1,2-Dibromoethane	21.4900	0.50	0.11	20.0000		107	79 - 118	5.60	20	
1,2-Dichlorobenzene	21.8000	0.50	0.09	20.0000		109	82 - 115	4.41	20	
1,2-Dichloroethane	17.0200	0.50	0.19	20.0000		85.1	76 - 115	3.97	20	
1,2-Dichloropropane	17.6400	0.50	0.36	20.0000		88.2	74 - 113	1.66	20	
1,3,5-Trimethylbenzene	20.8200	0.50	0.05	20.0000		104	83 - 126	2.23	20	
1,3-Dichlorobenzene	21.4400	0.50	0.10	20.0000		107	84 - 118	4.43	20	
1,3-Dichloropropane	17.4100	0.50	0.07	20.0000		87.0	72 - 116	2.44	20	
1,4-Dichlorobenzene	21.1000	0.50	0.07	20.0000		106	83 - 112	3.77	20	
2,2-Dichloropropane	17.5000	0.50	0.16	20.0000		87.5	72 - 150	3.87	20	
2-Chlorotoluene	20.4400	0.50	0.08	20.0000		102	82 - 120	3.18	20	
4-Chlorotoluene	20.8100	0.50	0.08	20.0000		104	81 - 121	2.58	20	
4-Isopropyltoluene	21.5900	0.50	0.06	20.0000		108	86 - 124	2.53	20	
Benzene	38.6600	0.50	0.03	40.0000		96.6	81 - 118	3.07	20	
Bromobenzene	19.5800	0.50	0.09	20.0000		97.9	82 - 117	2.43	20	
Bromodichloromethane	17.3800	0.50	0.14	20.0000		86.9	80 - 122	0.115	20	
Bromoform	21.2000	0.50	0.13	20.0000		106	53 - 145	4.39	20	
Bromomethane	15.6600	0.50	0.42	20.0000		78.3	30 - 204	8.80	20	
Carbon tetrachloride	18.7400	0.50	0.19	20.0000		93.7	77 - 157	0.320	20	
Chlorobenzene	20.9400	0.50	0.07	20.0000		105	86 - 113	4.49	20	
Chloroethane	18.2400	0.50	0.40	20.0000		91.2	70 - 160	0.715	20	
Chloroform	15.7700	0.50	0.17	20.0000		78.8	66 - 136	8.15	20	
Chloromethane	14.7400	0.50	0.08	20.0000		73.7	52 - 138	8.56	20	
cis-1,2-Dichloroethene	15.9900	0.50	0.13	20.0000		80.0	71 - 128	9.76	20	
cis-1,3-Dichloropropene	20.7700	0.50	0.05	20.0000		104	71 - 123	0.0481	20	
Dibromochloromethane	17.8600	0.50	0.14	20.0000		89.3	78 - 140	0.449	20	
Dibromomethane	17.0200	0.50	0.10	20.0000		85.1	78 - 109	3.07	20	
Dichlorodifluoromethane	10.2000	0.50	0.10	20.0000		51.0	64 - 144	1.08	20	

Certificate of Analysis

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/27/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0584 - MSVOA_W (continued)										
LCS Dup (B9B0584-BSD1) - Continued					Prepared: 2/26/2019 Analyzed: 2/26/2019					
Ethylbenzene	42.9900	0.50	0.07	40.0000		107	90 - 116	3.77	20	
Hexachlorobutadiene	21.5800	0.50	0.14	20.0000		108	81 - 129	6.66	20	
Isopropylbenzene	21.4100	0.50	0.05	20.0000		107	83 - 129	2.08	20	
m,p-Xylene	47.5400	1.0	0.08	40.0000		119	88 - 124	4.28	20	
Methylene chloride	19.9900	1.0	0.46	20.0000		100	76 - 137	3.36	20	
n-Butylbenzene	21.1900	0.50	0.05	20.0000		106	83 - 129	2.97	20	
n-Propylbenzene	20.8000	0.50	0.07	20.0000		104	85 - 124	3.03	20	
Naphthalene	21.4900	0.50	0.15	20.0000		107	67 - 113	8.69	20	
o-Xylene	47.2000	0.50	0.05	40.0000		118	82 - 129	4.86	20	
sec-Butylbenzene	21.4100	0.50	0.04	20.0000		107	86 - 127	3.76	20	
Styrene	24.1600	0.50	0.06	20.0000		121	83 - 122	5.09	20	
tert-Butylbenzene	21.4900	0.50	0.06	20.0000		107	84 - 130	2.83	20	
Tetrachloroethene	19.7700	0.50	0.07	20.0000		98.8	87 - 123	3.71	20	
Toluene	45.6200	0.50	0.07	40.0000		114	84 - 115	3.66	20	
trans-1,2-Dichloroethene	15.7900	0.50	0.11	20.0000		79.0	60 - 148	9.01	20	
Trichloroethene	18.1600	0.50	0.05	20.0000		90.8	79 - 129	1.05	20	
Trichlorofluoromethane	15.1100	0.50	0.14	20.0000		75.6	68 - 162	7.09	20	
Vinyl chloride	15.9600	0.50	0.05	20.0000		79.8	73 - 128	4.35	20	
Surrogate: 1,2-Dichloroethane-d4	*19.88*			*25.0000*		*79.5*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*29.06*			*25.0000*		*116*	*62 - 134*			
Surrogate: Dibromofluoromethan	*19.47*			*25.0000*		*77.9*	*56 - 167*			
Surrogate: Toluene-d8	*26.20*			*25.0000*		*105*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/27/2019

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0524 - MSSEMI_W										
Blank (B9B0524-BLK1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,4-Dioxane	ND	0.20	0.05							
Surrogate: 1,2-Dichlorobenzene-d	*0.6915*			*1.00000*		*69.2*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.6368*			*1.00000*		*63.7*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7493*			*1.00000*		*74.9*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.228*			*1.00000*		*123*	*6 - 124*			
LCS (B9B0524-BS1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,4-Dioxane	1.16903	0.20	0.05	1.00000		117	64 - 129			
Surrogate: 1,2-Dichlorobenzene-d	*0.5288*			*1.00000*		*52.9*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5106*			*1.00000*		*51.1*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.6982*			*1.00000*		*69.8*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.005*			*1.00000*		*101*	*6 - 124*			
LCS Dup (B9B0524-BSD1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,4-Dioxane	1.19147	0.20	0.05	1.00000		119	64 - 129	1.90	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.5508*			*1.00000*		*55.1*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5077*			*1.00000*		*50.8*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7312*			*1.00000*		*73.1*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.029*			*1.00000*		*103*	*6 - 124*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/27/2019

Notes and Definitions

L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 2/19/19
Page 1 of 1

PROJECT: Raytheon Main

TASK NO.: 532.30

Project Manager Steve Netto
QA Manager Tyler Evans
Phone 858.455.6500
Fax 858.455.6533

Sampled By: N. Schall / C. Diaz

SAMPLE COLLECTION

LAB ID	SAMPLE ID	Date	Time	Groundwater	Lab prepared water	Hydrochloric Acid (HCl)	Ice	40-ml VOA	1 L Amber	VOCs by EPA 8260B	1,4 Dioxane 8270 SIM	1,4-Dioxane 8270 MOD	0 - 10	10 - 100	100 - 1,000	>1,000	24 hr TAT	48 hr TAT	Standard TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
A100681-01	TB-021919	02/19/19	0500		X			2		X			X						X			Report J Flags
-02	MW-13	"	0925	X				3		X			X						X			
	"		"	X					1		X								X			
-03	MW-08		1355	X				3		X					X				X			
	"		"	X					1		X								X			
-04	MW-18		1605	X				3		X			X						X			
	"		"	X					1		X								X			

Total number of containers per analysis: 1

Total No. of Containers: ___

Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
[signature] / Hargis + Associates	2/19/19 1615	[signature]	2/19/19 1615
[signature] ATL	2/19/19 1724	[signature] ATL	2/19/19 1724

- ✓ No. of containers correct
- ✓ Received in good condition
- Custody seals secure
- ✓ Conforms to COC document

4.6 / ice — Temperature on receipt

Laboratory
ATL
Attn: Rachelle Arada
3257 Walnut Ave
Signal Hill, CA 90755
562-989-4045

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.5400
snetto@hargis.com

Instructions
- Fill out form completely and sign only after verified for completeness
- Complete in ballpoint pen. Draw one line through error, initial and date correction
- Indicate the number of sample containers in analytical request space; indicate choice with ✓ or ×
- Note applicable preservatives, special instructions, and deviations from typical environmental samples.
- Consult project QA documents for specific instructions.

ADVANCED TECHNOLOGY LABORATORIES

February 28, 2019

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

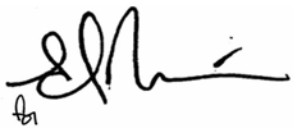
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1900700
Client Reference : Raytheon Main, 532.30

Enclosed are the results for sample(s) received on February 20, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-022019	1900700-01	Lab prepared water	2/20/19 8:00	2/20/19 16:50
P-09	1900700-02	Groundwater	2/20/19 9:54	2/20/19 16:50
MW-06	1900700-03	Groundwater	2/20/19 11:35	2/20/19 16:50
RB-022019	1900700-04	Lab prepared water	2/20/19 10:00	2/20/19 16:50
MW-16	1900700-05	Groundwater	2/20/19 14:20	2/20/19 16:50
MW-20	1900700-06	Groundwater	2/20/19 16:10	2/20/19 16:50

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/28/2019

Client Sample ID TB-022019

Lab ID: 1900700-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 14:39	
1,1,1-Trichloroethane	ND	0.50	0.18	1	B9B0470	02/21/2019	02/21/19 14:39	
1,1,2,2-Tetrachloroethane	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 14:39	
1,1,2-Trichloroethane	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 14:39	
1,1-Dichloroethane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 14:39	
1,1-Dichloroethene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 14:39	
1,1-Dichloropropene	ND	0.50	0.21	1	B9B0470	02/21/2019	02/21/19 14:39	
1,2,3-Trichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 14:39	
1,2,3-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 14:39	
1,2,4-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 14:39	
1,2,4-Trimethylbenzene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 14:39	
1,2-Dibromo-3-chloropropane	ND	0.50	0.24	1	B9B0470	02/21/2019	02/21/19 14:39	
1,2-Dibromoethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 14:39	
1,2-Dichlorobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 14:39	
1,2-Dichloroethane	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 14:39	
1,2-Dichloropropane	ND	0.50	0.36	1	B9B0470	02/21/2019	02/21/19 14:39	
1,3,5-Trimethylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 14:39	
1,3-Dichlorobenzene	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 14:39	
1,3-Dichloropropane	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 14:39	
1,4-Dichlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 14:39	
2,2-Dichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 14:39	
2-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 14:39	
4-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 14:39	
4-Isopropyltoluene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 14:39	
Benzene	ND	0.50	0.03	1	B9B0470	02/21/2019	02/21/19 14:39	
Bromobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 14:39	
Bromodichloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 14:39	
Bromoform	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 14:39	
Bromomethane	ND	0.50	0.42	1	B9B0470	02/21/2019	02/21/19 14:39	
Carbon tetrachloride	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 14:39	
Chlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 14:39	
Chloroethane	ND	0.50	0.40	1	B9B0470	02/21/2019	02/21/19 14:39	
Chloroform	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 14:39	
Chloromethane	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 14:39	
cis-1,2-Dichloroethene	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 14:39	
cis-1,3-Dichloropropene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 14:39	
Dibromochloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 14:39	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

Client Sample ID TB-022019

Lab ID: 1900700-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 14:39	
Dichlorodifluoromethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 14:39	
Ethylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 14:39	
Hexachlorobutadiene	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 14:39	
Isopropylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 14:39	
m,p-Xylene	ND	1.0	0.08	1	B9B0470	02/21/2019	02/21/19 14:39	
Methylene chloride	**0.63**	1.0	0.46	1	B9B0470	02/21/2019	02/21/19 14:39	J
n-Butylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 14:39	
n-Propylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 14:39	
Naphthalene	ND	0.50	0.15	1	B9B0470	02/21/2019	02/21/19 14:39	
o-Xylene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 14:39	
sec-Butylbenzene	ND	0.50	0.04	1	B9B0470	02/21/2019	02/21/19 14:39	
Styrene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 14:39	
tert-Butylbenzene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 14:39	
Tetrachloroethene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 14:39	
Toluene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 14:39	
trans-1,2-Dichloroethene	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 14:39	
Trichloroethene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 14:39	
Trichlorofluoromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 14:39	
Vinyl chloride	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 14:39	
Surrogate: 1,2-Dichloroethane-d4	*109 %*	*57 - 152*			B9B0470	02/21/2019	*02/21/19 14:39*	
Surrogate: 4-Bromofluorobenzene	*108 %*	*62 - 134*			B9B0470	02/21/2019	*02/21/19 14:39*	
Surrogate: Dibromofluoromethane	*99.4 %*	*56 - 167*			B9B0470	02/21/2019	*02/21/19 14:39*	
Surrogate: Toluene-d8	*108 %*	*33 - 170*			B9B0470	02/21/2019	*02/21/19 14:39*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/28/2019

Client Sample ID P-09

Lab ID: 1900700-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 18:55	
1,1,1-Trichloroethane	ND	0.50	0.18	1	B9B0470	02/21/2019	02/21/19 18:55	
1,1,2,2-Tetrachloroethane	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 18:55	
1,1,2-Trichloroethane	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 18:55	
1,1-Dichloroethane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 18:55	
1,1-Dichloroethene	**4.7**	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 18:55	
1,1-Dichloropropene	ND	0.50	0.21	1	B9B0470	02/21/2019	02/21/19 18:55	
1,2,3-Trichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 18:55	
1,2,3-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 18:55	
1,2,4-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 18:55	
1,2,4-Trimethylbenzene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:55	
1,2-Dibromo-3-chloropropane	ND	0.50	0.24	1	B9B0470	02/21/2019	02/21/19 18:55	
1,2-Dibromoethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 18:55	
1,2-Dichlorobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 18:55	
1,2-Dichloroethane	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 18:55	
1,2-Dichloropropane	ND	0.50	0.36	1	B9B0470	02/21/2019	02/21/19 18:55	
1,3,5-Trimethylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:55	
1,3-Dichlorobenzene	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 18:55	
1,3-Dichloropropane	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:55	
1,4-Dichlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:55	
2,2-Dichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 18:55	
2-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:55	
4-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:55	
4-Isopropyltoluene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 18:55	
Benzene	ND	0.50	0.03	1	B9B0470	02/21/2019	02/21/19 18:55	
Bromobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 18:55	
Bromodichloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:55	
Bromoform	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 18:55	
Bromomethane	ND	0.50	0.42	1	B9B0470	02/21/2019	02/21/19 18:55	
Carbon tetrachloride	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 18:55	
Chlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:55	
Chloroethane	ND	0.50	0.40	1	B9B0470	02/21/2019	02/21/19 18:55	
Chloroform	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 18:55	
Chloromethane	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 18:55	
cis-1,2-Dichloroethene	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 18:55	
cis-1,3-Dichloropropene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:55	
Dibromochloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:55	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

Client Sample ID P-09

Lab ID: 1900700-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 18:55	
Dichlorodifluoromethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 18:55	
Ethylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:55	
Hexachlorobutadiene	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:55	
Isopropylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:55	
m,p-Xylene	ND	1.0	0.08	1	B9B0470	02/21/2019	02/21/19 18:55	
Methylene chloride	ND	1.0	0.46	1	B9B0470	02/21/2019	02/21/19 18:55	
n-Butylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:55	
n-Propylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:55	
Naphthalene	ND	0.50	0.15	1	B9B0470	02/21/2019	02/21/19 18:55	
o-Xylene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:55	
sec-Butylbenzene	ND	0.50	0.04	1	B9B0470	02/21/2019	02/21/19 18:55	
Styrene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 18:55	
tert-Butylbenzene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 18:55	
Tetrachloroethene	**0.28**	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:55	J
Toluene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 18:55	
trans-1,2-Dichloroethene	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 18:55	
Trichloroethene	**0.11**	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:55	J
Trichlorofluoromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 18:55	
Vinyl chloride	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 18:55	
Surrogate: 1,2-Dichloroethane-d4	*100 %*	*57 - 152*			B9B0470	02/21/2019	*02/21/19 18:55*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*			B9B0470	02/21/2019	*02/21/19 18:55*	
Surrogate: Dibromofluoromethane	*92.6 %*	*56 - 167*			B9B0470	02/21/2019	*02/21/19 18:55*	
Surrogate: Toluene-d8	*110 %*	*33 - 170*			B9B0470	02/21/2019	*02/21/19 18:55*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

Client Sample ID P-09

Lab ID: 1900700-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.43**	0.20	0.05	1	B9B0524	02/22/2019	02/22/19 17:21	
Surrogate: 1,2-Dichlorobenzene-d4	*75.2 %*	*22 - 117*			B9B0524	02/22/2019	*02/22/19 17:21*	
Surrogate: 2-Fluorobiphenyl	*68.7 %*	*20 - 131*			B9B0524	02/22/2019	*02/22/19 17:21*	
Surrogate: 4-Terphenyl-d14	*76.6 %*	*24 - 135*			B9B0524	02/22/2019	*02/22/19 17:21*	
Surrogate: Nitrobenzene-d5	*126 %*	*6 - 124*			B9B0524	02/22/2019	*02/22/19 17:21*	S5

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/28/2019

Client Sample ID MW-06

Lab ID: 1900700-03

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 19:19	
1,1,1-Trichloroethane	ND	0.50	0.18	1	B9B0470	02/21/2019	02/21/19 19:19	
1,1,2,2-Tetrachloroethane	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 19:19	
1,1,2-Trichloroethane	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 19:19	
1,1-Dichloroethane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 19:19	
1,1-Dichloroethene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 19:19	
1,1-Dichloropropene	ND	0.50	0.21	1	B9B0470	02/21/2019	02/21/19 19:19	
1,2,3-Trichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 19:19	
1,2,3-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 19:19	
1,2,4-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 19:19	
1,2,4-Trimethylbenzene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 19:19	
1,2-Dibromo-3-chloropropane	ND	0.50	0.24	1	B9B0470	02/21/2019	02/21/19 19:19	
1,2-Dibromoethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 19:19	
1,2-Dichlorobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 19:19	
1,2-Dichloroethane	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 19:19	
1,2-Dichloropropane	ND	0.50	0.36	1	B9B0470	02/21/2019	02/21/19 19:19	
1,3,5-Trimethylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:19	
1,3-Dichlorobenzene	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 19:19	
1,3-Dichloropropane	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:19	
1,4-Dichlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:19	
2,2-Dichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 19:19	
2-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 19:19	
4-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 19:19	
4-Isopropyltoluene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 19:19	
Benzene	ND	0.50	0.03	1	B9B0470	02/21/2019	02/21/19 19:19	
Bromobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 19:19	
Bromodichloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 19:19	
Bromoform	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 19:19	
Bromomethane	ND	0.50	0.42	1	B9B0470	02/21/2019	02/21/19 19:19	
Carbon tetrachloride	**0.19**	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 19:19	J
Chlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:19	
Chloroethane	ND	0.50	0.40	1	B9B0470	02/21/2019	02/21/19 19:19	
Chloroform	**13**	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 19:19	
Chloromethane	**0.29**	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 19:19	J
cis-1,2-Dichloroethene	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 19:19	
cis-1,3-Dichloropropene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:19	
Dibromochloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 19:19	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

Client Sample ID MW-06

Lab ID: 1900700-03

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 19:19	
Dichlorodifluoromethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 19:19	
Ethylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:19	
Hexachlorobutadiene	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 19:19	
Isopropylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:19	
m,p-Xylene	ND	1.0	0.08	1	B9B0470	02/21/2019	02/21/19 19:19	
Methylene chloride	ND	1.0	0.46	1	B9B0470	02/21/2019	02/21/19 19:19	
n-Butylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:19	
n-Propylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:19	
Naphthalene	ND	0.50	0.15	1	B9B0470	02/21/2019	02/21/19 19:19	
o-Xylene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:19	
sec-Butylbenzene	ND	0.50	0.04	1	B9B0470	02/21/2019	02/21/19 19:19	
Styrene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 19:19	
tert-Butylbenzene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 19:19	
Tetrachloroethene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:19	
Toluene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:19	
trans-1,2-Dichloroethene	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 19:19	
Trichloroethene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:19	
Trichlorofluoromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 19:19	
Vinyl chloride	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:19	
Surrogate: 1,2-Dichloroethane-d4	*108 %*	*57 - 152*			B9B0470	02/21/2019	*02/21/19 19:19*	
Surrogate: 4-Bromofluorobenzene	*108 %*	*62 - 134*			B9B0470	02/21/2019	*02/21/19 19:19*	
Surrogate: Dibromofluoromethane	*101 %*	*56 - 167*			B9B0470	02/21/2019	*02/21/19 19:19*	
Surrogate: Toluene-d8	*108 %*	*33 - 170*			B9B0470	02/21/2019	*02/21/19 19:19*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

Client Sample ID MW-06

Lab ID: 1900700-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.05	1	B9B0524	02/22/2019	02/22/19 17:47	
Surrogate: 1,2-Dichlorobenzene-d4	*73.4 %*		*22 - 117*		B9B0524	02/22/2019	*02/22/19 17:47*	
Surrogate: 2-Fluorobiphenyl	*65.7 %*		*20 - 131*		B9B0524	02/22/2019	*02/22/19 17:47*	
Surrogate: 4-Terphenyl-d14	*73.5 %*		*24 - 135*		B9B0524	02/22/2019	*02/22/19 17:47*	
Surrogate: Nitrobenzene-d5	*120 %*		*6 - 124*		B9B0524	02/22/2019	*02/22/19 17:47*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/28/2019

Client Sample ID RB-022019

Lab ID: 1900700-04

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 19:44	
1,1,1-Trichloroethane	ND	0.50	0.18	1	B9B0470	02/21/2019	02/21/19 19:44	
1,1,2,2-Tetrachloroethane	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 19:44	
1,1,2-Trichloroethane	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 19:44	
1,1-Dichloroethane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 19:44	
1,1-Dichloroethene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 19:44	
1,1-Dichloropropene	ND	0.50	0.21	1	B9B0470	02/21/2019	02/21/19 19:44	
1,2,3-Trichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 19:44	
1,2,3-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 19:44	
1,2,4-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 19:44	
1,2,4-Trimethylbenzene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 19:44	
1,2-Dibromo-3-chloropropane	ND	0.50	0.24	1	B9B0470	02/21/2019	02/21/19 19:44	
1,2-Dibromoethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 19:44	
1,2-Dichlorobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 19:44	
1,2-Dichloroethane	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 19:44	
1,2-Dichloropropane	ND	0.50	0.36	1	B9B0470	02/21/2019	02/21/19 19:44	
1,3,5-Trimethylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:44	
1,3-Dichlorobenzene	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 19:44	
1,3-Dichloropropane	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:44	
1,4-Dichlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:44	
2,2-Dichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 19:44	
2-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 19:44	
4-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 19:44	
4-Isopropyltoluene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 19:44	
Benzene	ND	0.50	0.03	1	B9B0470	02/21/2019	02/21/19 19:44	
Bromobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 19:44	
Bromodichloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 19:44	
Bromoform	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 19:44	
Bromomethane	ND	0.50	0.42	1	B9B0470	02/21/2019	02/21/19 19:44	
Carbon tetrachloride	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 19:44	
Chlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:44	
Chloroethane	ND	0.50	0.40	1	B9B0470	02/21/2019	02/21/19 19:44	
Chloroform	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 19:44	
Chloromethane	**0.30**	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 19:44	J
cis-1,2-Dichloroethene	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 19:44	
cis-1,3-Dichloropropene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:44	
Dibromochloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 19:44	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

Client Sample ID RB-022019

Lab ID: 1900700-04

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 19:44	
Dichlorodifluoromethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 19:44	
Ethylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:44	
Hexachlorobutadiene	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 19:44	
Isopropylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:44	
m,p-Xylene	ND	1.0	0.08	1	B9B0470	02/21/2019	02/21/19 19:44	
Methylene chloride	ND	1.0	0.46	1	B9B0470	02/21/2019	02/21/19 19:44	
n-Butylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:44	
n-Propylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:44	
Naphthalene	ND	0.50	0.15	1	B9B0470	02/21/2019	02/21/19 19:44	
o-Xylene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:44	
sec-Butylbenzene	ND	0.50	0.04	1	B9B0470	02/21/2019	02/21/19 19:44	
Styrene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 19:44	
tert-Butylbenzene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 19:44	
Tetrachloroethene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:44	
Toluene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 19:44	
trans-1,2-Dichloroethene	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 19:44	
Trichloroethene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:44	
Trichlorofluoromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 19:44	
Vinyl chloride	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 19:44	
Surrogate: 1,2-Dichloroethane-d4	*102 %*	*57 - 152*			B9B0470	02/21/2019	*02/21/19 19:44*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*			B9B0470	02/21/2019	*02/21/19 19:44*	
Surrogate: Dibromofluoromethane	*95.0 %*	*56 - 167*			B9B0470	02/21/2019	*02/21/19 19:44*	
Surrogate: Toluene-d8	*112 %*	*33 - 170*			B9B0470	02/21/2019	*02/21/19 19:44*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

Client Sample ID RB-022019

Lab ID: 1900700-04

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.05	1	B9B0524	02/22/2019	02/22/19 18:13	
Surrogate: 1,2-Dichlorobenzene-d4	*58.3 %*	*22 - 117*			B9B0524	02/22/2019	*02/22/19 18:13*	
Surrogate: 2-Fluorobiphenyl	*53.6 %*	*20 - 131*			B9B0524	02/22/2019	*02/22/19 18:13*	
Surrogate: 4-Terphenyl-d14	*77.9 %*	*24 - 135*			B9B0524	02/22/2019	*02/22/19 18:13*	
Surrogate: Nitrobenzene-d5	*96.2 %*	*6 - 124*			B9B0524	02/22/2019	*02/22/19 18:13*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/28/2019

Client Sample ID MW-16

Lab ID: 1900700-05

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	0.22	2	B9B0514	02/22/2019	02/22/19 19:24	
1,1,1-Trichloroethane	ND	1.0	0.37	2	B9B0514	02/22/2019	02/22/19 19:24	
1,1,2,2-Tetrachloroethane	ND	1.0	0.34	2	B9B0514	02/22/2019	02/22/19 19:24	
1,1,2-Trichloroethane	**0.76**	1.0	0.23	2	B9B0514	02/22/2019	02/22/19 19:24	J
1,1-Dichloroethane	**4.8**	1.0	0.32	2	B9B0514	02/22/2019	02/22/19 19:24	
1,1-Dichloroethene	**640**	5.0	0.92	10	B9B0470	02/21/2019	02/21/19 20:57	
1,1-Dichloropropene	ND	1.0	0.42	2	B9B0514	02/22/2019	02/22/19 19:24	
1,2,3-Trichloropropane	ND	1.0	0.32	2	B9B0514	02/22/2019	02/22/19 19:24	
1,2,3-Trichlorobenzene	ND	1.0	0.25	2	B9B0514	02/22/2019	02/22/19 19:24	
1,2,4-Trichlorobenzene	ND	1.0	0.25	2	B9B0514	02/22/2019	02/22/19 19:24	
1,2,4-Trimethylbenzene	ND	1.0	0.17	2	B9B0514	02/22/2019	02/22/19 19:24	
1,2-Dibromo-3-chloropropane	ND	1.0	0.48	2	B9B0514	02/22/2019	02/22/19 19:24	
1,2-Dibromoethane	ND	1.0	0.23	2	B9B0514	02/22/2019	02/22/19 19:24	
1,2-Dichlorobenzene	ND	1.0	0.18	2	B9B0514	02/22/2019	02/22/19 19:24	
1,2-Dichloroethane	**0.68**	1.0	0.38	2	B9B0514	02/22/2019	02/22/19 19:24	J
1,2-Dichloropropane	ND	1.0	0.72	2	B9B0514	02/22/2019	02/22/19 19:24	
1,3,5-Trimethylbenzene	ND	1.0	0.10	2	B9B0514	02/22/2019	02/22/19 19:24	
1,3-Dichlorobenzene	ND	1.0	0.19	2	B9B0514	02/22/2019	02/22/19 19:24	
1,3-Dichloropropane	ND	1.0	0.14	2	B9B0514	02/22/2019	02/22/19 19:24	
1,4-Dichlorobenzene	ND	1.0	0.14	2	B9B0514	02/22/2019	02/22/19 19:24	
2,2-Dichloropropane	ND	1.0	0.32	2	B9B0514	02/22/2019	02/22/19 19:24	
2-Chlorotoluene	ND	1.0	0.16	2	B9B0514	02/22/2019	02/22/19 19:24	
4-Chlorotoluene	ND	1.0	0.15	2	B9B0514	02/22/2019	02/22/19 19:24	
4-Isopropyltoluene	ND	1.0	0.12	2	B9B0514	02/22/2019	02/22/19 19:24	
Benzene	ND	1.0	0.06	2	B9B0514	02/22/2019	02/22/19 19:24	
Bromobenzene	ND	1.0	0.17	2	B9B0514	02/22/2019	02/22/19 19:24	
Bromodichloromethane	ND	1.0	0.27	2	B9B0514	02/22/2019	02/22/19 19:24	
Bromoform	ND	1.0	0.26	2	B9B0514	02/22/2019	02/22/19 19:24	
Bromomethane	ND	1.0	0.85	2	B9B0514	02/22/2019	02/22/19 19:24	
Carbon tetrachloride	ND	1.0	0.38	2	B9B0514	02/22/2019	02/22/19 19:24	
Chlorobenzene	ND	1.0	0.15	2	B9B0514	02/22/2019	02/22/19 19:24	
Chloroethane	ND	1.0	0.80	2	B9B0514	02/22/2019	02/22/19 19:24	
Chloroform	**0.46**	1.0	0.34	2	B9B0514	02/22/2019	02/22/19 19:24	J
Chloromethane	ND	1.0	0.17	2	B9B0514	02/22/2019	02/22/19 19:24	
cis-1,2-Dichloroethene	**0.32**	1.0	0.25	2	B9B0514	02/22/2019	02/22/19 19:24	J
cis-1,3-Dichloropropene	ND	1.0	0.10	2	B9B0514	02/22/2019	02/22/19 19:24	
Dibromochloromethane	ND	1.0	0.27	2	B9B0514	02/22/2019	02/22/19 19:24	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

Client Sample ID MW-16

Lab ID: 1900700-05

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	1.0	0.21	2	B9B0514	02/22/2019	02/22/19 19:24	
Dichlorodifluoromethane	ND	1.0	0.19	2	B9B0514	02/22/2019	02/22/19 19:24	
Ethylbenzene	ND	1.0	0.14	2	B9B0514	02/22/2019	02/22/19 19:24	
Hexachlorobutadiene	ND	1.0	0.29	2	B9B0514	02/22/2019	02/22/19 19:24	
Isopropylbenzene	ND	1.0	0.10	2	B9B0514	02/22/2019	02/22/19 19:24	
m,p-Xylene	ND	2.0	0.16	2	B9B0514	02/22/2019	02/22/19 19:24	
Methylene chloride	ND	2.0	0.92	2	B9B0514	02/22/2019	02/22/19 19:24	
n-Butylbenzene	ND	1.0	0.10	2	B9B0514	02/22/2019	02/22/19 19:24	
n-Propylbenzene	ND	1.0	0.14	2	B9B0514	02/22/2019	02/22/19 19:24	
Naphthalene	ND	1.0	0.29	2	B9B0514	02/22/2019	02/22/19 19:24	
o-Xylene	ND	1.0	0.09	2	B9B0514	02/22/2019	02/22/19 19:24	
sec-Butylbenzene	ND	1.0	0.08	2	B9B0514	02/22/2019	02/22/19 19:24	
Styrene	ND	1.0	0.11	2	B9B0514	02/22/2019	02/22/19 19:24	
tert-Butylbenzene	ND	1.0	0.11	2	B9B0514	02/22/2019	02/22/19 19:24	
Tetrachloroethene	**1.1**	1.0	0.15	2	B9B0514	02/22/2019	02/22/19 19:24	
Toluene	ND	1.0	0.13	2	B9B0514	02/22/2019	02/22/19 19:24	
trans-1,2-Dichloroethene	ND	1.0	0.23	2	B9B0514	02/22/2019	02/22/19 19:24	
Trichloroethene	**5.1**	1.0	0.10	2	B9B0514	02/22/2019	02/22/19 19:24	
Trichlorofluoromethane	ND	1.0	0.29	2	B9B0514	02/22/2019	02/22/19 19:24	
Vinyl chloride	ND	1.0	0.11	2	B9B0514	02/22/2019	02/22/19 19:24	
Surrogate: 1,2-Dichloroethane-d4	*105 %*	*57 - 152*			B9B0470	02/21/2019	*02/21/19 20:57*	
Surrogate: 1,2-Dichloroethane-d4	*109 %*	*57 - 152*			B9B0514	02/22/2019	*02/22/19 19:24*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*			B9B0470	02/21/2019	*02/21/19 20:57*	
Surrogate: 4-Bromofluorobenzene	*106 %*	*62 - 134*			B9B0514	02/22/2019	*02/22/19 19:24*	
Surrogate: Dibromofluoromethane	*101 %*	*56 - 167*			B9B0514	02/22/2019	*02/22/19 19:24*	
Surrogate: Dibromofluoromethane	*96.2 %*	*56 - 167*			B9B0470	02/21/2019	*02/21/19 20:57*	
Surrogate: Toluene-d8	*106 %*	*33 - 170*			B9B0514	02/22/2019	*02/22/19 19:24*	
Surrogate: Toluene-d8	*111 %*	*33 - 170*			B9B0470	02/21/2019	*02/21/19 20:57*	

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Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

Client Sample ID MW-16

Lab ID: 1900700-05

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**81**	2.0	0.84	1	B9B0570	02/25/2019	02/25/19 17:48	
Surrogate: 1,2-Dichlorobenzene-d4	*65.0 %*	*34 - 188*			B9B0570	02/25/2019	*02/25/19 17:48*	
Surrogate: 2-Fluorobiphenyl	*76.8 %*	*39 - 108*			B9B0570	02/25/2019	*02/25/19 17:48*	
Surrogate: 4-Terphenyl-d14	*109 %*	*71 - 131*			B9B0570	02/25/2019	*02/25/19 17:48*	
Surrogate: Nitrobenzene-d5	*81.5 %*	*32 - 106*			B9B0570	02/25/2019	*02/25/19 17:48*	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/28/2019

Client Sample ID MW-20

Lab ID: 1900700-06

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 20:08	
1,1,1-Trichloroethane	ND	0.50	0.18	1	B9B0470	02/21/2019	02/21/19 20:08	
1,1,2,2-Tetrachloroethane	ND	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 20:08	
1,1,2-Trichloroethane	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 20:08	
1,1-Dichloroethane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 20:08	
1,1-Dichloroethene	**5.3**	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 20:08	
1,1-Dichloropropene	ND	0.50	0.21	1	B9B0470	02/21/2019	02/21/19 20:08	
1,2,3-Trichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 20:08	
1,2,3-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 20:08	
1,2,4-Trichlorobenzene	ND	0.50	0.12	1	B9B0470	02/21/2019	02/21/19 20:08	
1,2,4-Trimethylbenzene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 20:08	
1,2-Dibromo-3-chloropropane	ND	0.50	0.24	1	B9B0470	02/21/2019	02/21/19 20:08	
1,2-Dibromoethane	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 20:08	
1,2-Dichlorobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 20:08	
1,2-Dichloroethane	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 20:08	
1,2-Dichloropropane	ND	0.50	0.36	1	B9B0470	02/21/2019	02/21/19 20:08	
1,3,5-Trimethylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:08	
1,3-Dichlorobenzene	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 20:08	
1,3-Dichloropropane	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:08	
1,4-Dichlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:08	
2,2-Dichloropropane	ND	0.50	0.16	1	B9B0470	02/21/2019	02/21/19 20:08	
2-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 20:08	
4-Chlorotoluene	ND	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 20:08	
4-Isopropyltoluene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 20:08	
Benzene	ND	0.50	0.03	1	B9B0470	02/21/2019	02/21/19 20:08	
Bromobenzene	ND	0.50	0.09	1	B9B0470	02/21/2019	02/21/19 20:08	
Bromodichloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 20:08	
Bromoform	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 20:08	
Bromomethane	ND	0.50	0.42	1	B9B0470	02/21/2019	02/21/19 20:08	
Carbon tetrachloride	ND	0.50	0.19	1	B9B0470	02/21/2019	02/21/19 20:08	
Chlorobenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:08	
Chloroethane	ND	0.50	0.40	1	B9B0470	02/21/2019	02/21/19 20:08	
Chloroform	**0.53**	0.50	0.17	1	B9B0470	02/21/2019	02/21/19 20:08	
Chloromethane	**0.26**	0.50	0.08	1	B9B0470	02/21/2019	02/21/19 20:08	J
cis-1,2-Dichloroethene	ND	0.50	0.13	1	B9B0470	02/21/2019	02/21/19 20:08	
cis-1,3-Dichloropropene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:08	
Dibromochloromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 20:08	

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9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

Client Sample ID MW-20

Lab ID: 1900700-06

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 20:08	
Dichlorodifluoromethane	ND	0.50	0.10	1	B9B0470	02/21/2019	02/21/19 20:08	
Ethylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:08	
Hexachlorobutadiene	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 20:08	
Isopropylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:08	
m,p-Xylene	ND	1.0	0.08	1	B9B0470	02/21/2019	02/21/19 20:08	
Methylene chloride	ND	1.0	0.46	1	B9B0470	02/21/2019	02/21/19 20:08	
n-Butylbenzene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:08	
n-Propylbenzene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:08	
Naphthalene	ND	0.50	0.15	1	B9B0470	02/21/2019	02/21/19 20:08	
o-Xylene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:08	
sec-Butylbenzene	ND	0.50	0.04	1	B9B0470	02/21/2019	02/21/19 20:08	
Styrene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 20:08	
tert-Butylbenzene	ND	0.50	0.06	1	B9B0470	02/21/2019	02/21/19 20:08	
Tetrachloroethene	**0.14**	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:08	J
Toluene	ND	0.50	0.07	1	B9B0470	02/21/2019	02/21/19 20:08	
trans-1,2-Dichloroethene	ND	0.50	0.11	1	B9B0470	02/21/2019	02/21/19 20:08	
Trichloroethene	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:08	
Trichlorofluoromethane	ND	0.50	0.14	1	B9B0470	02/21/2019	02/21/19 20:08	
Vinyl chloride	ND	0.50	0.05	1	B9B0470	02/21/2019	02/21/19 20:08	
Surrogate: 1,2-Dichloroethane-d4	*100 %*	*57 - 152*			B9B0470	02/21/2019	*02/21/19 20:08*	
Surrogate: 4-Bromofluorobenzene	*109 %*	*62 - 134*			B9B0470	02/21/2019	*02/21/19 20:08*	
Surrogate: Dibromofluoromethane	*92.3 %*	*56 - 167*			B9B0470	02/21/2019	*02/21/19 20:08*	
Surrogate: Toluene-d8	*111 %*	*33 - 170*			B9B0470	02/21/2019	*02/21/19 20:08*	

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Client Sample ID MW-20

Lab ID: 1900700-06

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.05	1	B9B0524	02/22/2019	02/22/19 18:39	
Surrogate: 1,2-Dichlorobenzene-d4	*61.6 %*	*22 - 117*			B9B0524	02/22/2019	*02/22/19 18:39*	
Surrogate: 2-Fluorobiphenyl	*55.4 %*	*20 - 131*			B9B0524	02/22/2019	*02/22/19 18:39*	
Surrogate: 4-Terphenyl-d14	*57.1 %*	*24 - 135*			B9B0524	02/22/2019	*02/22/19 18:39*	
Surrogate: Nitrobenzene-d5	*98.8 %*	*6 - 124*			B9B0524	02/22/2019	*02/22/19 18:39*	

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QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0470 - MSVOA_W										
Blank (B9B0470-BLK1)					Prepared: 2/21/2019 Analyzed: 2/21/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0470 - MSVOA_W (continued)										
Blank (B9B0470-BLK1) - Continued					Prepared: 2/21/2019 Analyzed: 2/21/2019					
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*25.56*			*25.0000*		*102*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.49*			*25.0000*		*110*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.44*			*25.0000*		*93.8*	*56 - 167*			
Surrogate: Toluene-d8	*27.38*			*25.0000*		*110*	*33 - 170*			
LCS (B9B0470-BS1)					Prepared: 2/21/2019 Analyzed: 2/21/2019					
1,1,1,2-Tetrachloroethane	16.9900	0.50	0.11	20.0000		85.0	80 - 137			
1,1,1-Trichloroethane	16.1200	0.50	0.18	20.0000		80.6	75 - 148			
1,1,2,2-Tetrachloroethane	15.6500	0.50	0.17	20.0000		78.2	64 - 118			
1,1,2-Trichloroethane	17.9100	0.50	0.12	20.0000		89.6	77 - 113			
1,1-Dichloroethane	17.2900	0.50	0.16	20.0000		86.4	72 - 131			
1,1-Dichloroethene	17.1400	0.50	0.09	20.0000		85.7	75 - 132			
1,1-Dichloropropene	17.9500	0.50	0.21	20.0000		89.8	84 - 141			
1,2,3-Trichloropropane	16.2900	0.50	0.16	20.0000		81.4	65 - 111			
1,2,3-Trichlorobenzene	19.0800	0.50	0.12	20.0000		95.4	79 - 117			
1,2,4-Trichlorobenzene	18.8500	0.50	0.12	20.0000		94.2	78 - 121			
1,2,4-Trimethylbenzene	18.3400	0.50	0.08	20.0000		91.7	83 - 125			
1,2-Dibromo-3-chloropropane	17.6300	0.50	0.24	20.0000		88.2	54 - 116			
1,2-Dibromoethane	18.7100	0.50	0.11	20.0000		93.6	79 - 118			
1,2-Dichlorobenzene	18.9600	0.50	0.09	20.0000		94.8	82 - 115			
1,2-Dichloroethane	16.8700	0.50	0.19	20.0000		84.4	76 - 115			
1,2-Dichloropropane	16.1800	0.50	0.36	20.0000		80.9	74 - 113			
1,3,5-Trimethylbenzene	18.8000	0.50	0.05	20.0000		94.0	83 - 126			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0470 - MSVOA_W (continued)										
LCS (B9B0470-BS1) - Continued					Prepared: 2/21/2019 Analyzed: 2/21/2019					
1,3-Dichlorobenzene	18.6000	0.50	0.10	20.0000		93.0	84 - 118			
1,3-Dichloropropane	15.2900	0.50	0.07	20.0000		76.4	72 - 116			
1,4-Dichlorobenzene	18.4000	0.50	0.07	20.0000		92.0	83 - 112			
2,2-Dichloropropane	17.3200	0.50	0.16	20.0000		86.6	72 - 150			
2-Chlorotoluene	18.2000	0.50	0.08	20.0000		91.0	82 - 120			
4-Chlorotoluene	18.5700	0.50	0.08	20.0000		92.8	81 - 121			
4-Isopropyltoluene	19.0800	0.50	0.06	20.0000		95.4	86 - 124			
Benzene	35.1800	0.50	0.03	40.0000		88.0	81 - 118			
Bromobenzene	17.1200	0.50	0.09	20.0000		85.6	82 - 117			
Bromodichloromethane	16.2100	0.50	0.14	20.0000		81.0	80 - 122			
Bromoform	17.7600	0.50	0.13	20.0000		88.8	53 - 145			
Bromomethane	14.5000	0.50	0.42	20.0000		72.5	30 - 204			
Carbon tetrachloride	17.6100	0.50	0.19	20.0000		88.0	77 - 157			
Chlorobenzene	18.2900	0.50	0.07	20.0000		91.4	86 - 113			
Chloroethane	17.6600	0.50	0.40	20.0000		88.3	70 - 160			
Chloroform	16.4700	0.50	0.17	20.0000		82.4	66 - 136			
Chloromethane	15.3800	0.50	0.08	20.0000		76.9	52 - 138			
cis-1,2-Dichloroethene	17.0900	0.50	0.13	20.0000		85.4	71 - 128			
cis-1,3-Dichloropropene	19.2200	0.50	0.05	20.0000		96.1	71 - 123			
Dibromochloromethane	15.6400	0.50	0.14	20.0000		78.2	78 - 140			
Dibromomethane	16.7000	0.50	0.10	20.0000		83.5	78 - 109			
Dichlorodifluoromethane	12.8700	0.50	0.10	20.0000		64.4	64 - 144			
Ethylbenzene	37.7600	0.50	0.07	40.0000		94.4	90 - 116			
Hexachlorobutadiene	19.2600	0.50	0.14	20.0000		96.3	81 - 129			
Isopropylbenzene	19.1900	0.50	0.05	20.0000		96.0	83 - 129			
m,p-Xylene	41.5500	1.0	0.08	40.0000		104	88 - 124			
Methylene chloride	17.8800	1.0	0.46	20.0000		89.4	76 - 137			
n-Butylbenzene	18.9200	0.50	0.05	20.0000		94.6	83 - 129			
n-Propylbenzene	18.5400	0.50	0.07	20.0000		92.7	85 - 124			
Naphthalene	18.0200	0.50	0.15	20.0000		90.1	67 - 113			
o-Xylene	41.2400	0.50	0.05	40.0000		103	82 - 129			
sec-Butylbenzene	18.8200	0.50	0.04	20.0000		94.1	86 - 127			
Styrene	20.8200	0.50	0.06	20.0000		104	83 - 122			
tert-Butylbenzene	18.9800	0.50	0.06	20.0000		94.9	84 - 130			
Tetrachloroethene	17.3700	0.50	0.07	20.0000		86.8	87 - 123			L4
Toluene	41.2000	0.50	0.07	40.0000		103	84 - 115			
trans-1,2-Dichloroethene	16.9600	0.50	0.11	20.0000		84.8	60 - 148			
Trichloroethene	16.8600	0.50	0.05	20.0000		84.3	79 - 129			
Trichlorofluoromethane	15.7400	0.50	0.14	20.0000		78.7	68 - 162			
Vinyl chloride	15.9500	0.50	0.05	20.0000		79.8	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*23.48*			*25.0000*		*93.9*	*57 - 152*			

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San Diego , CA 92122	Reported : 02/28/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0470 - MSVOA_W (continued)										
LCS (B9B0470-BS1) - Continued					Prepared: 2/21/2019 Analyzed: 2/21/2019					
Surrogate: 4-Bromofluorobenzene	*28.87*			*25.0000*		*115*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.37*			*25.0000*		*93.5*	*56 - 167*			
Surrogate: Toluene-d8	*27.16*			*25.0000*		*109*	*33 - 170*			
LCS Dup (B9B0470-BSD1)					Prepared: 2/21/2019 Analyzed: 2/21/2019					
1,1,1,2-Tetrachloroethane	16.8000	0.50	0.11	20.0000		84.0	80 - 137	1.12	20	
1,1,1-Trichloroethane	16.1600	0.50	0.18	20.0000		80.8	75 - 148	0.248	20	
1,1,2,2-Tetrachloroethane	16.5200	0.50	0.17	20.0000		82.6	64 - 118	5.41	20	
1,1,2-Trichloroethane	19.0500	0.50	0.12	20.0000		95.2	77 - 113	6.17	20	
1,1-Dichloroethane	16.8400	0.50	0.16	20.0000		84.2	72 - 131	2.64	20	
1,1-Dichloroethene	16.4400	0.50	0.09	20.0000		82.2	75 - 132	4.17	20	
1,1-Dichloropropene	17.9300	0.50	0.21	20.0000		89.6	84 - 141	0.111	20	
1,2,3-Trichloropropane	16.8600	0.50	0.16	20.0000		84.3	65 - 111	3.44	20	
1,2,3-Trichlorobenzene	19.2900	0.50	0.12	20.0000		96.4	79 - 117	1.09	20	
1,2,4-Trichlorobenzene	18.9200	0.50	0.12	20.0000		94.6	78 - 121	0.371	20	
1,2,4-Trimethylbenzene	18.3400	0.50	0.08	20.0000		91.7	83 - 125	0.00	20	
1,2-Dibromo-3-chloropropane	18.3600	0.50	0.24	20.0000		91.8	54 - 116	4.06	20	
1,2-Dibromoethane	19.3300	0.50	0.11	20.0000		96.6	79 - 118	3.26	20	
1,2-Dichlorobenzene	19.1700	0.50	0.09	20.0000		95.8	82 - 115	1.10	20	
1,2-Dichloroethane	17.5400	0.50	0.19	20.0000		87.7	76 - 115	3.89	20	
1,2-Dichloropropane	16.4700	0.50	0.36	20.0000		82.4	74 - 113	1.78	20	
1,3,5-Trimethylbenzene	18.7900	0.50	0.05	20.0000		94.0	83 - 126	0.0532	20	
1,3-Dichlorobenzene	18.7000	0.50	0.10	20.0000		93.5	84 - 118	0.536	20	
1,3-Dichloropropane	15.4400	0.50	0.07	20.0000		77.2	72 - 116	0.976	20	
1,4-Dichlorobenzene	18.5700	0.50	0.07	20.0000		92.8	83 - 112	0.920	20	
2,2-Dichloropropane	17.0000	0.50	0.16	20.0000		85.0	72 - 150	1.86	20	
2-Chlorotoluene	18.1100	0.50	0.08	20.0000		90.6	82 - 120	0.496	20	
4-Chlorotoluene	18.4900	0.50	0.08	20.0000		92.4	81 - 121	0.432	20	
4-Isopropyltoluene	18.8900	0.50	0.06	20.0000		94.4	86 - 124	1.00	20	
Benzene	35.6700	0.50	0.03	40.0000		89.2	81 - 118	1.38	20	
Bromobenzene	17.4800	0.50	0.09	20.0000		87.4	82 - 117	2.08	20	
Bromodichloromethane	16.5300	0.50	0.14	20.0000		82.6	80 - 122	1.95	20	
Bromoform	17.9600	0.50	0.13	20.0000		89.8	53 - 145	1.12	20	
Bromomethane	15.2600	0.50	0.42	20.0000		76.3	30 - 204	5.11	20	
Carbon tetrachloride	17.6200	0.50	0.19	20.0000		88.1	77 - 157	0.0568	20	
Chlorobenzene	18.0900	0.50	0.07	20.0000		90.4	86 - 113	1.10	20	
Chloroethane	16.0800	0.50	0.40	20.0000		80.4	70 - 160	9.37	20	
Chloroform	16.4700	0.50	0.17	20.0000		82.4	66 - 136	0.00	20	
Chloromethane	14.7000	0.50	0.08	20.0000		73.5	52 - 138	4.52	20	
cis-1,2-Dichloroethene	17.0300	0.50	0.13	20.0000		85.2	71 - 128	0.352	20	
cis-1,3-Dichloropropene	19.5300	0.50	0.05	20.0000		97.6	71 - 123	1.60	20	
Dibromochloromethane	15.8300	0.50	0.14	20.0000		79.2	78 - 140	1.21	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0470 - MSVOA_W (continued)										
LCS Dup (B9B0470-BSD1) - Continued					Prepared: 2/21/2019 Analyzed: 2/21/2019					
Dibromomethane	17.4000	0.50	0.10	20.0000		87.0	78 - 109	4.11	20	
Dichlorodifluoromethane	12.2500	0.50	0.10	20.0000		61.2	64 - 144	4.94	20	L4
Ethylbenzene	37.4000	0.50	0.07	40.0000		93.5	90 - 116	0.958	20	
Hexachlorobutadiene	18.8300	0.50	0.14	20.0000		94.2	81 - 129	2.26	20	
Isopropylbenzene	19.2800	0.50	0.05	20.0000		96.4	83 - 129	0.468	20	
m,p-Xylene	41.3100	1.0	0.08	40.0000		103	88 - 124	0.579	20	
Methylene chloride	18.0900	1.0	0.46	20.0000		90.4	76 - 137	1.17	20	
n-Butylbenzene	18.5200	0.50	0.05	20.0000		92.6	83 - 129	2.14	20	
n-Propylbenzene	18.5100	0.50	0.07	20.0000		92.6	85 - 124	0.162	20	
Naphthalene	18.3800	0.50	0.15	20.0000		91.9	67 - 113	1.98	20	
o-Xylene	40.6700	0.50	0.05	40.0000		102	82 - 129	1.39	20	
sec-Butylbenzene	18.6500	0.50	0.04	20.0000		93.2	86 - 127	0.907	20	
Styrene	20.7400	0.50	0.06	20.0000		104	83 - 122	0.385	20	
tert-Butylbenzene	18.8500	0.50	0.06	20.0000		94.2	84 - 130	0.687	20	
Tetrachloroethene	17.2400	0.50	0.07	20.0000		86.2	87 - 123	0.751	20	L4
Toluene	41.7700	0.50	0.07	40.0000		104	84 - 115	1.37	20	
trans-1,2-Dichloroethene	16.5800	0.50	0.11	20.0000		82.9	60 - 148	2.27	20	
Trichloroethene	16.9200	0.50	0.05	20.0000		84.6	79 - 129	0.355	20	
Trichlorofluoromethane	15.4200	0.50	0.14	20.0000		77.1	68 - 162	2.05	20	
Vinyl chloride	14.8300	0.50	0.05	20.0000		74.2	73 - 128	7.28	20	
Surrogate: 1,2-Dichloroethane-d4	*24.19*			*25.0000*		*96.8*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*28.88*			*25.0000*		*116*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.59*			*25.0000*		*94.4*	*56 - 167*			
Surrogate: Toluene-d8	*27.41*			*25.0000*		*110*	*33 - 170*			

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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0514 - MSVOA_W										
Blank (B9B0514-BLK1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0514 - MSVOA_W (continued)										
Blank (B9B0514-BLK1) - Continued					Prepared: 2/22/2019 Analyzed: 2/22/2019					
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*26.98*			*25.0000*		*108*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.26*			*25.0000*		*109*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.85*			*25.0000*		*99.4*	*56 - 167*			
Surrogate: Toluene-d8	*27.45*			*25.0000*		*110*	*33 - 170*			
LCS (B9B0514-BS1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,1,1,2-Tetrachloroethane	17.2400	0.50	0.11	20.0000		86.2	80 - 137			
1,1,1-Trichloroethane	16.0400	0.50	0.18	20.0000		80.2	75 - 148			
1,1,2,2-Tetrachloroethane	14.9100	0.50	0.17	20.0000		74.6	64 - 118			
1,1,2-Trichloroethane	16.9800	0.50	0.12	20.0000		84.9	77 - 113			
1,1-Dichloroethane	16.9100	0.50	0.16	20.0000		84.6	72 - 131			
1,1-Dichloroethene	17.4900	0.50	0.09	20.0000		87.4	75 - 132			
1,1-Dichloropropene	17.5200	0.50	0.21	20.0000		87.6	84 - 141			
1,2,3-Trichloropropane	15.4000	0.50	0.16	20.0000		77.0	65 - 111			
1,2,3-Trichlorobenzene	17.6300	0.50	0.12	20.0000		88.2	79 - 117			
1,2,4-Trichlorobenzene	18.1100	0.50	0.12	20.0000		90.6	78 - 121			
1,2,4-Trimethylbenzene	18.4800	0.50	0.08	20.0000		92.4	83 - 125			
1,2-Dibromo-3-chloropropane	17.0400	0.50	0.24	20.0000		85.2	54 - 116			
1,2-Dibromoethane	18.1000	0.50	0.11	20.0000		90.5	79 - 118			
1,2-Dichlorobenzene	18.8200	0.50	0.09	20.0000		94.1	82 - 115			
1,2-Dichloroethane	15.5600	0.50	0.19	20.0000		77.8	76 - 115			
1,2-Dichloropropane	15.7300	0.50	0.36	20.0000		78.6	74 - 113			
1,3,5-Trimethylbenzene	18.7900	0.50	0.05	20.0000		94.0	83 - 126			
1,3-Dichlorobenzene	18.8000	0.50	0.10	20.0000		94.0	84 - 118			
1,3-Dichloropropane	14.5300	0.50	0.07	20.0000		72.6	72 - 116			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0514 - MSVOA_W (continued)										
LCS (B9B0514-BS1) - Continued					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,4-Dichlorobenzene	18.6000	0.50	0.07	20.0000		93.0	83 - 112			
2,2-Dichloropropane	17.5800	0.50	0.16	20.0000		87.9	72 - 150			
2-Chlorotoluene	18.2600	0.50	0.08	20.0000		91.3	82 - 120			
4-Chlorotoluene	18.6400	0.50	0.08	20.0000		93.2	81 - 121			
4-Isopropyltoluene	19.3800	0.50	0.06	20.0000		96.9	86 - 124			
Benzene	34.7400	0.50	0.03	40.0000		86.8	81 - 118			
Bromobenzene	17.1300	0.50	0.09	20.0000		85.6	82 - 117			
Bromodichloromethane	16.0300	0.50	0.14	20.0000		80.2	80 - 122			
Bromoform	18.1600	0.50	0.13	20.0000		90.8	53 - 145			
Bromomethane	17.5100	0.50	0.42	20.0000		87.6	30 - 204			
Carbon tetrachloride	17.9400	0.50	0.19	20.0000		89.7	77 - 157			
Chlorobenzene	18.2600	0.50	0.07	20.0000		91.3	86 - 113			
Chloroethane	17.9600	0.50	0.40	20.0000		89.8	70 - 160			
Chloroform	16.0300	0.50	0.17	20.0000		80.2	66 - 136			
Chloromethane	15.7600	0.50	0.08	20.0000		78.8	52 - 138			
cis-1,2-Dichloroethene	16.3900	0.50	0.13	20.0000		82.0	71 - 128			
cis-1,3-Dichloropropene	18.6500	0.50	0.05	20.0000		93.2	71 - 123			
Dibromochloromethane	15.6000	0.50	0.14	20.0000		78.0	78 - 140			
Dibromomethane	15.4000	0.50	0.10	20.0000		77.0	78 - 109			L4
Dichlorodifluoromethane	12.5600	0.50	0.10	20.0000		62.8	64 - 144			L4
Ethylbenzene	38.0100	0.50	0.07	40.0000		95.0	90 - 116			
Hexachlorobutadiene	18.8900	0.50	0.14	20.0000		94.4	81 - 129			
Isopropylbenzene	19.2500	0.50	0.05	20.0000		96.2	83 - 129			
m,p-Xylene	41.8200	1.0	0.08	40.0000		105	88 - 124			
Methylene chloride	18.1000	1.0	0.46	20.0000		90.5	76 - 137			
n-Butylbenzene	19.1600	0.50	0.05	20.0000		95.8	83 - 129			
n-Propylbenzene	18.7400	0.50	0.07	20.0000		93.7	85 - 124			
Naphthalene	16.3800	0.50	0.15	20.0000		81.9	67 - 113			
o-Xylene	41.2800	0.50	0.05	40.0000		103	82 - 129			
sec-Butylbenzene	19.0500	0.50	0.04	20.0000		95.2	86 - 127			
Styrene	20.7600	0.50	0.06	20.0000		104	83 - 122			
tert-Butylbenzene	19.0500	0.50	0.06	20.0000		95.2	84 - 130			
Tetrachloroethene	17.3000	0.50	0.07	20.0000		86.5	87 - 123			L4
Toluene	41.6100	0.50	0.07	40.0000		104	84 - 115			
trans-1,2-Dichloroethene	16.2200	0.50	0.11	20.0000		81.1	60 - 148			
Trichloroethene	16.4300	0.50	0.05	20.0000		82.2	79 - 129			
Trichlorofluoromethane	16.2600	0.50	0.14	20.0000		81.3	68 - 162			
Vinyl chloride	16.4400	0.50	0.05	20.0000		82.2	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*21.70*			*25.0000*		*86.8*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*28.53*			*25.0000*		*114*	*62 - 134*			
Surrogate: Dibromofluoromethan	*22.35*			*25.0000*		*89.4*	*56 - 167*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/28/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0514 - MSVOA_W (continued)										
LCS (B9B0514-BS1) - Continued					Prepared: 2/22/2019 Analyzed: 2/22/2019					
Surrogate: Toluene-d8	*27.04*			*25.0000*		*108*	*33 - 170*			
LCS Dup (B9B0514-BSD1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,1,1,2-Tetrachloroethane	20.9700	0.50	0.11	20.0000		105	80 - 137	19.5	20	
1,1,1-Trichloroethane	19.2900	0.50	0.18	20.0000		96.4	75 - 148	18.4	20	
1,1,2,2-Tetrachloroethane	19.0100	0.50	0.17	20.0000		95.0	64 - 118	24.2	20	R
1,1,2-Trichloroethane	21.7600	0.50	0.12	20.0000		109	77 - 113	24.7	20	R
1,1-Dichloroethane	20.5900	0.50	0.16	20.0000		103	72 - 131	19.6	20	
1,1-Dichloroethene	20.7000	0.50	0.09	20.0000		104	75 - 132	16.8	20	
1,1-Dichloropropene	20.2000	0.50	0.21	20.0000		101	84 - 141	14.2	20	
1,2,3-Trichloropropane	19.2500	0.50	0.16	20.0000		96.2	65 - 111	22.2	20	R
1,2,3-Trichlorobenzene	20.8200	0.50	0.12	20.0000		104	79 - 117	16.6	20	
1,2,4-Trichlorobenzene	20.6600	0.50	0.12	20.0000		103	78 - 121	13.2	20	
1,2,4-Trimethylbenzene	20.4800	0.50	0.08	20.0000		102	83 - 125	10.3	20	
1,2-Dibromo-3-chloropropane	23.8200	0.50	0.24	20.0000		119	54 - 116	33.2	20	L5, R
1,2-Dibromoethane	22.9300	0.50	0.11	20.0000		115	79 - 118	23.5	20	R
1,2-Dichlorobenzene	21.3200	0.50	0.09	20.0000		107	82 - 115	12.5	20	
1,2-Dichloroethane	20.0900	0.50	0.19	20.0000		100	76 - 115	25.4	20	R
1,2-Dichloropropane	18.9900	0.50	0.36	20.0000		95.0	74 - 113	18.8	20	
1,3,5-Trimethylbenzene	20.7400	0.50	0.05	20.0000		104	83 - 126	9.87	20	
1,3-Dichlorobenzene	21.0100	0.50	0.10	20.0000		105	84 - 118	11.1	20	
1,3-Dichloropropane	17.7500	0.50	0.07	20.0000		88.8	72 - 116	20.0	20	
1,4-Dichlorobenzene	20.8300	0.50	0.07	20.0000		104	83 - 112	11.3	20	
2,2-Dichloropropane	20.8300	0.50	0.16	20.0000		104	72 - 150	16.9	20	
2-Chlorotoluene	20.1400	0.50	0.08	20.0000		101	82 - 120	9.79	20	
4-Chlorotoluene	20.5700	0.50	0.08	20.0000		103	81 - 121	9.84	20	
4-Isopropyltoluene	21.1500	0.50	0.06	20.0000		106	86 - 124	8.73	20	
Benzene	40.2400	0.50	0.03	40.0000		101	81 - 118	14.7	20	
Bromobenzene	19.2600	0.50	0.09	20.0000		96.3	82 - 117	11.7	20	
Bromodichloromethane	20.2800	0.50	0.14	20.0000		101	80 - 122	23.4	20	R
Bromoform	25.9500	0.50	0.13	20.0000		130	53 - 145	35.3	20	R
Bromomethane	19.3300	0.50	0.42	20.0000		96.6	30 - 204	9.88	20	
Carbon tetrachloride	21.9600	0.50	0.19	20.0000		110	77 - 157	20.2	20	R
Chlorobenzene	20.9000	0.50	0.07	20.0000		104	86 - 113	13.5	20	
Chloroethane	19.7800	0.50	0.40	20.0000		98.9	70 - 160	9.64	20	
Chloroform	19.9100	0.50	0.17	20.0000		99.6	66 - 136	21.6	20	R
Chloromethane	17.8100	0.50	0.08	20.0000		89.0	52 - 138	12.2	20	
cis-1,2-Dichloroethene	20.3900	0.50	0.13	20.0000		102	71 - 128	21.8	20	R
cis-1,3-Dichloropropene	23.4100	0.50	0.05	20.0000		117	71 - 123	22.6	20	R
Dibromochloromethane	20.4500	0.50	0.14	20.0000		102	78 - 140	26.9	20	R
Dibromomethane	20.1200	0.50	0.10	20.0000		101	78 - 109	26.6	20	R
Dichlorodifluoromethane	14.3500	0.50	0.10	20.0000		71.8	64 - 144	13.3	20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/28/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0514 - MSVOA_W (continued)										
LCS Dup (B9B0514-BSD1) - Continued					Prepared: 2/22/2019 Analyzed: 2/22/2019					
Ethylbenzene	42.9800	0.50	0.07	40.0000		107	90 - 116	12.3	20	
Hexachlorobutadiene	20.5300	0.50	0.14	20.0000		103	81 - 129	8.32	20	
Isopropylbenzene	21.2400	0.50	0.05	20.0000		106	83 - 129	9.83	20	
m,p-Xylene	47.4200	1.0	0.08	40.0000		119	88 - 124	12.6	20	
Methylene chloride	21.1500	1.0	0.46	20.0000		106	76 - 137	15.5	20	
n-Butylbenzene	20.8600	0.50	0.05	20.0000		104	83 - 129	8.50	20	
n-Propylbenzene	20.5500	0.50	0.07	20.0000		103	85 - 124	9.21	20	
Naphthalene	20.7100	0.50	0.15	20.0000		104	67 - 113	23.3	20	R
o-Xylene	47.1300	0.50	0.05	40.0000		118	82 - 129	13.2	20	
sec-Butylbenzene	20.9400	0.50	0.04	20.0000		105	86 - 127	9.45	20	
Styrene	24.2200	0.50	0.06	20.0000		121	83 - 122	15.4	20	
tert-Butylbenzene	20.9000	0.50	0.06	20.0000		104	84 - 130	9.26	20	
Tetrachloroethene	19.5300	0.50	0.07	20.0000		97.6	87 - 123	12.1	20	
Toluene	47.8700	0.50	0.07	40.0000		120	84 - 115	14.0	20	L4
trans-1,2-Dichloroethene	19.8700	0.50	0.11	20.0000		99.4	60 - 148	20.2	20	R
Trichloroethene	19.2700	0.50	0.05	20.0000		96.4	79 - 129	15.9	20	
Trichlorofluoromethane	18.8500	0.50	0.14	20.0000		94.2	68 - 162	14.8	20	
Vinyl chloride	18.7900	0.50	0.05	20.0000		94.0	73 - 128	13.3	20	
Surrogate: 1,2-Dichloroethane-d4	*24.76*			*25.0000*		*99.0*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*28.69*			*25.0000*		*115*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.47*			*25.0000*		*97.9*	*56 - 167*			
Surrogate: Toluene-d8	*27.07*			*25.0000*		*108*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/28/2019

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0570 - MSSEMI_W										
Blank (B9B0570-BLK1)						Prepared: 2/25/2019 Analyzed: 2/25/2019				
1,4-Dioxane	ND	2.0	0.84							
Surrogate: 1,2-Dichlorobenzene-d	*69.81*			*100.000*		*69.8*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*82.73*			*100.000*		*82.7*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*114.5*			*100.000*		*115*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*88.97*			*100.000*		*89.0*	*32 - 106*			
LCS (B9B0570-BS1)						Prepared: 2/25/2019 Analyzed: 2/25/2019				
1,4-Dioxane	120.600	2.0	0.84	100.000		121	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*62.68*			*100.000*		*62.7*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*82.90*			*100.000*		*82.9*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*100.5*			*100.000*		*100*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*87.44*			*100.000*		*87.4*	*32 - 106*			
LCS Dup (B9B0570-BSD1)						Prepared: 2/25/2019 Analyzed: 2/25/2019				
1,4-Dioxane	122.050	2.0	0.84	100.000		122	40 - 159	1.20	20	
Surrogate: 1,2-Dichlorobenzene-d	*65.12*			*100.000*		*65.1*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*82.48*			*100.000*		*82.5*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*100.3*			*100.000*		*100*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*86.95*			*100.000*		*87.0*	*32 - 106*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/28/2019

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0524 - MSSEMI_W										
Blank (B9B0524-BLK1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,4-Dioxane	ND	0.20	0.05							
Surrogate: 1,2-Dichlorobenzene-d	*0.6915*			*1.00000*		*69.2*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.6368*			*1.00000*		*63.7*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7493*			*1.00000*		*74.9*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.228*			*1.00000*		*123*	*6 - 124*			
LCS (B9B0524-BS1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,4-Dioxane	1.16903	0.20	0.05	1.00000		117	64 - 129			
Surrogate: 1,2-Dichlorobenzene-d	*0.5288*			*1.00000*		*52.9*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5106*			*1.00000*		*51.1*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.6982*			*1.00000*		*69.8*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.005*			*1.00000*		*101*	*6 - 124*			
LCS Dup (B9B0524-BSD1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,4-Dioxane	1.19147	0.20	0.05	1.00000		119	64 - 129	1.90	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.5508*			*1.00000*		*55.1*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5077*			*1.00000*		*50.8*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7312*			*1.00000*		*73.1*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.029*			*1.00000*		*103*	*6 - 124*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/28/2019

Notes and Definitions

S5	Surrogate recovery was above laboratory acceptance limit. Sample reanalysis showed the same high recovery.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
L5	Laboratory Control Sample high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 2/20/19
Page 1 of 1

PROJECT: Raytheon Main

TASK NO.: 532.30

Project Manager Steve Netto
QA Manager Tyler Evans
Phone 858.455.6500
Fax 858.455.6533

Sampled By: N. Shull DJ Seeley

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Groundwater	Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	Ice	CONTAINERS: 40-ml VOA	1 L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	1,4 Dioxane 8270 SIM	1,4-Dioxane 8270 MOD	Expected Concetration Range (ppb) for VOA's: 0 - 10	10 - 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 hr TAT	Standard TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1900700-01	TB-022019	2/20/19	0800		X		X	2											X			
-02	P-09		0954	X		X	X	3		X			X						X			Report J Flags
	"		"	X			X		1		X								X			
-03	MW-06		1135	X		X	X	3		X			X						X			
	"		"	X			X		1		X								X			
-04	FB-022019		1000		X	X	X	3		X			X						X			
	"		"		X		X		1		X								X			
-05	MW-16		1420	X		X	X	3		X					X				X			
	"		"	X			X		1			X							X			
-06	MW-20		1610	X		X	X	3		X			X						X			
	"		"	X			X		1		X								X			

Total number of containers per analysis:

Total No. of Containers:

Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
[signature] / Hargis + Associates	2/20/19 1650	[signature] / ATL	2/20/19 1650
[signature]	2/20/19 1742	[signature] ATL	2/20/19 1742

- ✓ No. of containers correct
- ✓ Received in good condition
- Custody seals secure
- ✓ Conforms to COC document

3.4 / ice — Temperature on receipt

Laboratory
ATL
Attn: Rachelle Arada
3257 Walnut Ave
Signal Hill, CA 90755
562-989-4045

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.5400
snetto@hargis.com

Instructions
1. Fill out form completely and sign only after verified for completeness
2. Complete in ballpoint pen. Draw one line through error, initial and date correction
3. Indicate the number of sample containers in analytical request space; indicate choice with ✓ or ×
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM RESULTS

ADVANCED TECHNOLOGY LABORATORIES

December 06, 2018

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

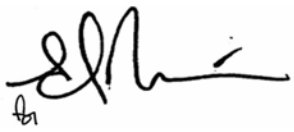
Re: ATL Work Order Number : 1804590

Client Reference : Raytheon Main GETS OCSD Quarterly Sample, 532.15

Enclosed are the results for sample(s) received on December 04, 2018 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS OCSD Quarterly S:
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	12/06/2018

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-120418	1804590-01	Lab prepared water	12/04/18 8:00	12/04/18 16:32
CEFF	1804590-02	Groundwater	12/04/18 11:20	12/04/18 16:32

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS OCSD Quarterly S:
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/06/2018

Client Sample ID TB-120418

Lab ID: 1804590-01

Volatile Organic Compounds by EPA 624 **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1-Trichloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
1,1,2-Trichloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
1,1-Dichloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
1,1-Dichloroethene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
1,2-Dichlorobenzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
1,2-Dichloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
1,2-Dichloropropane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
1,3-Dichlorobenzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
1,4-Dichlorobenzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
2-Chloroethyl vinyl ether	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Acrolein	ND	10	1	B8L0098	12/05/2018	12/05/18 18:07	
Acrylonitrile	ND	10	1	B8L0098	12/05/2018	12/05/18 18:07	
Benzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Bromodichloromethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Bromoform	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Bromomethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Carbon tetrachloride	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Chlorobenzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Chloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Chloroform	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Chloromethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Dibromochloromethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Ethylbenzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
m,p-Xylene	ND	1.0	1	B8L0098	12/05/2018	12/05/18 18:07	
Methylene chloride	ND	1.0	1	B8L0098	12/05/2018	12/05/18 18:07	
o-Xylene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Tetrachloroethene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Toluene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
trans-1,3-Dichloropropene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Trichloroethene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Trichlorofluoromethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Vinyl chloride	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:07	
Surrogate: 1,2-Dichloroethane-d4	*85.5 %*	*57 - 152*		B8L0098	12/05/2018	*12/05/18 18:07*	
Surrogate: 4-Bromofluorobenzene	*94.7 %*	*62 - 134*		B8L0098	12/05/2018	*12/05/18 18:07*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS OCSD Quarterly S:
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	12/06/2018

Client Sample ID TB-120418

Lab ID: 1804590-01

Volatile Organic Compounds by EPA 624

Analyst: QP

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Dibromofluoromethane	*98.1 %*		*56 - 167*		B8L0098	12/05/2018	*12/05/18 18:07*	
Surrogate: Toluene-d8	*100 %*		*33 - 170*		B8L0098	12/05/2018	*12/05/18 18:07*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS OCSD Quarterly S:
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/06/2018

Client Sample ID CEFF

Lab ID: 1804590-02

Volatile Organic Compounds by EPA 624 **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1-Trichloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
1,1,2-Trichloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
1,1-Dichloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
1,1-Dichloroethene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
1,2-Dichlorobenzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
1,2-Dichloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
1,2-Dichloropropane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
1,3-Dichlorobenzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
1,4-Dichlorobenzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
2-Chloroethyl vinyl ether	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Acrolein	ND	10	1	B8L0098	12/05/2018	12/05/18 18:30	
Acrylonitrile	ND	10	1	B8L0098	12/05/2018	12/05/18 18:30	
Benzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Bromodichloromethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Bromoform	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Bromomethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Carbon tetrachloride	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Chlorobenzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Chloroethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Chloroform	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Chloromethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Dibromochloromethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Ethylbenzene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
m,p-Xylene	ND	1.0	1	B8L0098	12/05/2018	12/05/18 18:30	
Methylene chloride	ND	1.0	1	B8L0098	12/05/2018	12/05/18 18:30	
o-Xylene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Tetrachloroethene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Toluene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
trans-1,3-Dichloropropene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Trichloroethene	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Trichlorofluoromethane	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Vinyl chloride	ND	0.50	1	B8L0098	12/05/2018	12/05/18 18:30	
Surrogate: 1,2-Dichloroethane-d4	*85.1 %*	*57 - 152*		B8L0098	12/05/2018	*12/05/18 18:30*	
Surrogate: 4-Bromofluorobenzene	*92.6 %*	*62 - 134*		B8L0098	12/05/2018	*12/05/18 18:30*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS OCSD Quarterly S:
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	12/06/2018

Client Sample ID CEFF

Lab ID: 1804590-02

Volatile Organic Compounds by EPA 624 — **Analyst: QP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Dibromofluoromethane	*95.0 %*		*56 - 167*		B8L0098	12/05/2018	*12/05/18 18:30*	
Surrogate: Toluene-d8	*104 %*		*33 - 170*		B8L0098	12/05/2018	*12/05/18 18:30*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique — **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	2.0	1	B8L0134	12/05/2018	12/06/18 13:18	
Surrogate: 1,2-Dichlorobenzene-d4	*49.7 %*		*34 - 188*		B8L0134	12/05/2018	*12/06/18 13:18*	
Surrogate: 2-Fluorobiphenyl	*58.7 %*		*39 - 108*		B8L0134	12/05/2018	*12/06/18 13:18*	
Surrogate: 4-Terphenyl-d14	*64.7 %*		*71 - 131*		B8L0134	12/05/2018	*12/06/18 13:18*	S2
Surrogate: Nitrobenzene-d5	*66.7 %*		*32 - 106*		B8L0134	12/05/2018	*12/06/18 13:18*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS OCSD Quarterly S:
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/06/2018

QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 624 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0098 - MSVOA_W										
Blank (B8L0098-BLK1)					Prepared: 12/5/2018 Analyzed: 12/5/2018					
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,4-Dichlorobenzene	ND	0.50	0.07							
2-Chloroethyl vinyl ether	ND	0.50	0.09							
Acrolein	ND	10	1.6							
Acrylonitrile	ND	10	1.5							
Benzene	ND	0.50	0.03							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Ethylbenzene	ND	0.50	0.07							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
o-Xylene	ND	0.50	0.05							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
trans-1,3-Dichloropropene	ND	0.50	0.04							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*22.59*			*25.0000*		*90.4*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*23.62*			*25.0000*		*94.5*	*62 - 134*			
Surrogate: Dibromofluoromethan	*25.11*			*25.0000*		*100*	*56 - 167*			
Surrogate: Toluene-d8	*25.27*			*25.0000*		*101*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS OCSD Quarterly S:
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/06/2018

Volatile Organic Compounds by EPA 624 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0098 - MSVOA_W (continued)										
LCS (B8L0098-BS1)					Prepared: 12/5/2018 Analyzed: 12/5/2018					
1,1,1-Trichloroethane	18.3500	0.50	0.18	20.0000		91.8	75 - 148			
1,1,2,2-Tetrachloroethane	21.8300	0.50	0.17	20.0000		109	64 - 118			
1,1,2-Trichloroethane	20.8600	0.50	0.12	20.0000		104	77 - 113			
1,1-Dichloroethane	19.1100	0.50	0.16	20.0000		95.6	72 - 131			
1,1-Dichloroethene	24.4700	0.50	0.09	20.0000		122	75 - 132			
1,2-Dichlorobenzene	20.9500	0.50	0.09	20.0000		105	82 - 115			
1,2-Dichloroethane	17.6100	0.50	0.19	20.0000		88.0	76 - 115			
1,2-Dichloropropane	20.3700	0.50	0.36	20.0000		102	74 - 113			
1,3-Dichlorobenzene	20.2700	0.50	0.10	20.0000		101	84 - 118			
1,4-Dichlorobenzene	20.6900	0.50	0.07	20.0000		103	83 - 112			
2-Chloroethyl vinyl ether	10.6800	0.50	0.09	20.0000		53.4	0 - 121			
Acrolein	106.720	10	1.6	200.000		53.4	0 - 139			
Acrylonitrile	147.200	10	1.5	200.000		73.6	39 - 132			
Benzene	41.3700	0.50	0.03	40.0000		103	81 - 118			
Bromodichloromethane	19.7600	0.50	0.14	20.0000		98.8	80 - 122			
Bromoform	21.1100	0.50	0.13	20.0000		106	53 - 145			
Bromomethane	43.4200	0.50	0.42	20.0000		217	30 - 204			L5
Carbon tetrachloride	17.5700	0.50	0.19	20.0000		87.8	77 - 157			
Chlorobenzene	20.1200	0.50	0.07	20.0000		101	86 - 113			
Chloroethane	26.9600	0.50	0.40	20.0000		135	70 - 160			
Chloroform	19.4100	0.50	0.17	20.0000		97.0	66 - 136			
Chloromethane	11.8900	0.50	0.08	20.0000		59.4	52 - 138			
cis-1,3-Dichloropropene	19.7700	0.50	0.05	20.0000		98.8	71 - 123			
Dibromochloromethane	21.5000	0.50	0.14	20.0000		108	78 - 140			
Ethylbenzene	41.9500	0.50	0.07	40.0000		105	90 - 116			
m,p-Xylene	42.4000	1.0	0.08	40.0000		106	88 - 124			
Methylene chloride	27.0400	1.0	0.46	20.0000		135	76 - 137			
o-Xylene	40.3200	0.50	0.05	40.0000		101	82 - 129			
Tetrachloroethene	19.4100	0.50	0.07	20.0000		97.0	87 - 123			
Toluene	42.7400	0.50	0.07	40.0000		107	84 - 115			
trans-1,2-Dichloroethene	25.7900	0.50	0.11	20.0000		129	60 - 148			
trans-1,3-Dichloropropene	17.7500	0.50	0.04	20.0000		88.8	77 - 118			
Trichloroethene	17.7100	0.50	0.05	20.0000		88.6	79 - 129			
Trichlorofluoromethane	22.6400	0.50	0.14	20.0000		113	68 - 162			
Vinyl chloride	20.6700	0.50	0.05	20.0000		103	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*23.16*			*25.0000*		*92.6*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*23.89*			*25.0000*		*95.6*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.82*			*25.0000*		*99.3*	*56 - 167*			
Surrogate: Toluene-d8	*25.42*			*25.0000*		*102*	*33 - 170*			
LCS Dup (B8L0098-BSD1)					Prepared: 12/5/2018 Analyzed: 12/5/2018					
1,1,1-Trichloroethane	16.8300	0.50	0.18	20.0000		84.2	75 - 148	8.64	20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS OCSD Quarterly S:
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/06/2018

Volatile Organic Compounds by EPA 624 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0098 - MSVOA_W (continued)										
LCS Dup (B8L0098-BSD1) - Continued					Prepared: 12/5/2018 Analyzed: 12/5/2018					
1,1,2,2-Tetrachloroethane	21.3700	0.50	0.17	20.0000		107	64 - 118	2.13	20	
1,1,2-Trichloroethane	20.2600	0.50	0.12	20.0000		101	77 - 113	2.92	20	
1,1-Dichloroethane	18.1000	0.50	0.16	20.0000		90.5	72 - 131	5.43	20	
1,1-Dichloroethene	23.2100	0.50	0.09	20.0000		116	75 - 132	5.29	20	
1,2-Dichlorobenzene	19.7300	0.50	0.09	20.0000		98.6	82 - 115	6.00	20	
1,2-Dichloroethane	17.2200	0.50	0.19	20.0000		86.1	76 - 115	2.24	20	
1,2-Dichloropropane	20.0700	0.50	0.36	20.0000		100	74 - 113	1.48	20	
1,3-Dichlorobenzene	19.3700	0.50	0.10	20.0000		96.8	84 - 118	4.54	20	
1,4-Dichlorobenzene	19.9500	0.50	0.07	20.0000		99.8	83 - 112	3.64	20	
2-Chloroethyl vinyl ether	7.30000	0.50	0.09	20.0000		36.5	0 - 121	37.6	20	R
Acrolein	112.800	10	1.6	200.000		56.4	0 - 139	5.54	20	
Acrylonitrile	155.260	10	1.5	200.000		77.6	39 - 132	5.33	20	
Benzene	39.9000	0.50	0.03	40.0000		99.8	81 - 118	3.62	20	
Bromodichloromethane	18.6600	0.50	0.14	20.0000		93.3	80 - 122	5.73	20	
Bromoform	19.2700	0.50	0.13	20.0000		96.4	53 - 145	9.11	20	
Bromomethane	39.4900	0.50	0.42	20.0000		197	30 - 204	9.48	20	
Carbon tetrachloride	16.7300	0.50	0.19	20.0000		83.6	77 - 157	4.90	20	
Chlorobenzene	19.4800	0.50	0.07	20.0000		97.4	86 - 113	3.23	20	
Chloroethane	26.3200	0.50	0.40	20.0000		132	70 - 160	2.40	20	
Chloroform	18.5300	0.50	0.17	20.0000		92.6	66 - 136	4.64	20	
Chloromethane	10.7700	0.50	0.08	20.0000		53.8	52 - 138	9.89	20	
cis-1,3-Dichloropropene	18.4800	0.50	0.05	20.0000		92.4	71 - 123	6.75	20	
Dibromochloromethane	21.0300	0.50	0.14	20.0000		105	78 - 140	2.21	20	
Ethylbenzene	40.4000	0.50	0.07	40.0000		101	90 - 116	3.76	20	
m,p-Xylene	40.8600	1.0	0.08	40.0000		102	88 - 124	3.70	20	
Methylene chloride	26.6000	1.0	0.46	20.0000		133	76 - 137	1.64	20	
o-Xylene	40.3400	0.50	0.05	40.0000		101	82 - 129	0.0496	20	
Tetrachloroethene	19.4300	0.50	0.07	20.0000		97.2	87 - 123	0.103	20	
Toluene	40.0000	0.50	0.07	40.0000		100	84 - 115	6.62	20	
trans-1,2-Dichloroethene	24.1600	0.50	0.11	20.0000		121	60 - 148	6.53	20	
trans-1,3-Dichloropropene	17.2100	0.50	0.04	20.0000		86.0	77 - 118	3.09	20	
Trichloroethene	17.9100	0.50	0.05	20.0000		89.6	79 - 129	1.12	20	
Trichlorofluoromethane	21.8600	0.50	0.14	20.0000		109	68 - 162	3.51	20	
Vinyl chloride	19.1200	0.50	0.05	20.0000		95.6	73 - 128	7.79	20	
Surrogate: 1,2-Dichloroethane-d4	*23.57*			*25.0000*		*94.3*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*22.99*			*25.0000*		*92.0*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.97*			*25.0000*		*95.9*	*56 - 167*			
Surrogate: Toluene-d8	*24.91*			*25.0000*		*99.6*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS OCSD Quarterly S:
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/06/2018

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0134 - MSSEMI_W										
Blank (B8L0134-BLK1)					Prepared: 12/5/2018 Analyzed: 12/5/2018					
1,4-Dioxane	ND	2.0	0.84							
Surrogate: 1,2-Dichlorobenzene-d	*127.6*			*200.000*		*63.8*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*161.8*			*200.000*		*80.9*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*168.5*			*200.000*		*84.3*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*170.9*			*200.000*		*85.4*	*32 - 106*			
LCS (B8L0134-BS1)					Prepared: 12/5/2018 Analyzed: 12/5/2018					
1,4-Dioxane	123.260	2.0	0.84	100.000		123	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*70.59*			*100.000*		*70.6*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*81.52*			*100.000*		*81.5*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*72.69*			*100.000*		*72.7*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*92.61*			*100.000*		*92.6*	*32 - 106*			
Matrix Spike (B8L0134-MS1)			**Source: 1804528-02**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
1,4-Dioxane	105.760	2.0	0.84	100.000	331.490	-226	40 - 159			M2
Surrogate: 1,2-Dichlorobenzene-d	*44.00*			*100.000*		*44.0*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*56.48*			*100.000*		*56.5*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*48.27*			*100.000*		*48.3*	*71 - 131*			S2
Surrogate: Nitrobenzene-d5	*60.58*			*100.000*		*60.6*	*32 - 106*			
Matrix Spike Dup (B8L0134-MSD1)			**Source: 1804528-02**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
1,4-Dioxane	93.6600	2.0	0.84	100.000	331.490	-238	40 - 159	12.1	20	M2
Surrogate: 1,2-Dichlorobenzene-d	*53.78*			*100.000*		*53.8*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*67.88*			*100.000*		*67.9*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*61.15*			*100.000*		*61.2*	*71 - 131*			S2
Surrogate: Nitrobenzene-d5	*74.90*			*100.000*		*74.9*	*32 - 106*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS OCSD Quarterly S:
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	12/06/2018

Notes and Definitions

S2	Surrogate recovery was below laboratory acceptance limit. Reextraction and/or reanalysisconfirms low recovery caused by matrix effects.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
L5	Laboratory Control Sample high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

1804590

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 12/04/2018
Page 1 of 1

PROJECT: Raytheon Main GETS OCSD Quarterly Sample

TASK NO.: 532.15

Project Manager Steve Netto
QA Manager Ross Horton
Phone 858.455.6500
Fax 858.455.6533

Sampled By: Ross Horton

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Groundwater	Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)				Ice	CONTAINERS: 40-ml VOA	125 mL Poly	250 mL Poly	250 mL Glass	1 L Poly	1L Amber	ANALYSIS REQUESTED: VOCs by EPA 624	1,4-Dioxane by EPA 8270C MOD							Expected Concentration Range (ppb) for VOAs: 0 - 10	10 - 100	100 - 1,000	>1,000		SPECIAL HANDLING: 24 hr TAT	48 Hour TAT	5 Day TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1804590-01	TB-120418	12/4/2018	8:00		X	X				X	2						X								X						X			
↓ -02	CEFF	12/4/2018	11:20	X		X				X	3					1	X	X							X						X			Note 48 hr TAT

December 21, 2018

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

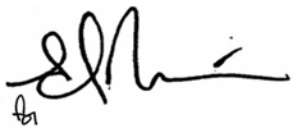
Re: ATL Work Order Number : 1804591

Client Reference : Raytheon Main GETS Monthly Sample, 532.15

Enclosed are the results for sample(s) received on December 04, 2018 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	12/21/2018

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-120418	1804591-01	Lab prepared water	12/04/18 8:00	12/04/18 16:32
CEFF	1804591-02	Groundwater	12/04/18 11:20	12/04/18 16:32
CBT	1804591-03	Groundwater	12/04/18 11:30	12/04/18 16:32
POX	1804591-04	Groundwater	12/04/18 11:35	12/04/18 16:32
PF	1804591-05	Groundwater	12/04/18 11:45	12/04/18 16:32
INF	1804591-06	Groundwater	12/04/18 11:50	12/04/18 16:32
EW-02	1804591-07	Groundwater	12/04/18 13:45	12/04/18 16:32
MW-29	1804591-08	Groundwater	12/04/18 13:25	12/04/18 16:32

CASE NARRATIVE

The samples for Bromate by IC-MS/MS analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Sample Receiving/General Comments:

The following analytes lists were taken from sample containers: Alkalinity - Hydroxide, Bicarbonate, Carbonate, and Total.

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/21/2018

Client Sample ID TB-120418

Lab ID: 1804591-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,1,1-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,1,2-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,1-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,1-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,1-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,2,3-Trichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,2-Dibromoethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,2-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,2-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,3-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,3-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
1,4-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
2,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
2-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
4-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
4-Isopropyltoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Benzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Bromobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Bromodichloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Bromoform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Bromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Carbon tetrachloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Chlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Chloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Chloroform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Chloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Dibromochloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/21/2018

Client Sample ID TB-120418

Lab ID: 1804591-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Dichlorodifluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Ethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Hexachlorobutadiene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Isopropylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
m,p-Xylene	ND	1.0	1	B8L0180	12/07/2018	12/07/18 18:03	
Methylene chloride	ND	1.0	1	B8L0180	12/07/2018	12/07/18 18:03	
n-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
n-Propylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Naphthalene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
o-Xylene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
sec-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Styrene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
tert-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Tetrachloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Toluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Trichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Trichlorofluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Vinyl chloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:03	
Surrogate: 1,2-Dichloroethane-d4	*82.6 %*	*57 - 152*		B8L0180	12/07/2018	*12/07/18 18:03*	
Surrogate: 4-Bromofluorobenzene	*87.6 %*	*62 - 134*		B8L0180	12/07/2018	*12/07/18 18:03*	
Surrogate: Dibromofluoromethane	*99.0 %*	*56 - 167*		B8L0180	12/07/2018	*12/07/18 18:03*	
Surrogate: Toluene-d8	*101 %*	*33 - 170*		B8L0180	12/07/2018	*12/07/18 18:03*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/21/2018

Client Sample ID CEFF

Lab ID: 1804591-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,1,1-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,1,2-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,1-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,1-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,1-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,2,3-Trichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,2-Dibromoethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,2-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,2-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,3-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,3-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
1,4-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
2,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
2-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
4-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
4-Isopropyltoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Benzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Bromobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Bromodichloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Bromoform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Bromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Carbon tetrachloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Chlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Chloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Chloroform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Chloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Dibromochloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/21/2018

Client Sample ID CEFF

Lab ID: 1804591-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Dichlorodifluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Ethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Hexachlorobutadiene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Isopropylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
m,p-Xylene	ND	1.0	1	B8L0180	12/07/2018	12/07/18 18:26	
Methylene chloride	ND	1.0	1	B8L0180	12/07/2018	12/07/18 18:26	
n-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
n-Propylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Naphthalene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
o-Xylene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
sec-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Styrene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
tert-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Tetrachloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Toluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Trichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Trichlorofluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Vinyl chloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:26	
Surrogate: 1,2-Dichloroethane-d4	*84.7 %*	*57 - 152*		B8L0180	12/07/2018	*12/07/18 18:26*	
Surrogate: 4-Bromofluorobenzene	*82.5 %*	*62 - 134*		B8L0180	12/07/2018	*12/07/18 18:26*	
Surrogate: Dibromofluoromethane	*101 %*	*56 - 167*		B8L0180	12/07/2018	*12/07/18 18:26*	
Surrogate: Toluene-d8	*99.2 %*	*33 - 170*		B8L0180	12/07/2018	*12/07/18 18:26*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/21/2018

Client Sample ID CEFF

Lab ID: 1804591-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B8L0281	12/10/2018	12/11/18 09:15	
Surrogate: 1,2-Dichlorobenzene-d4	*74.6 %*		*23 - 118*		B8L0281	12/10/2018	*12/11/18 09:15*	
Surrogate: 2-Fluorobiphenyl	*110 %*		*29 - 118*		B8L0281	12/10/2018	*12/11/18 09:15*	
Surrogate: 4-Terphenyl-d14	*79.3 %*		*33 - 121*		B8L0281	12/10/2018	*12/11/18 09:15*	
Surrogate: Nitrobenzene-d5	*96.5 %*		*7 - 120*		B8L0281	12/10/2018	*12/11/18 09:15*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/21/2018

Client Sample ID CBT

Lab ID: 1804591-03

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,1,1-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,1,2-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,1-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,1-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,1-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,2,3-Trichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,2-Dibromoethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,2-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,2-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,3-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,3-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
1,4-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
2,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
2-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
4-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
4-Isopropyltoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Benzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Bromobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Bromodichloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Bromoform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Bromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Carbon tetrachloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Chlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Chloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Chloroform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Chloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Dibromochloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	

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Client Sample ID CBT

Lab ID: 1804591-03

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Dichlorodifluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Ethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Hexachlorobutadiene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Isopropylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
m,p-Xylene	ND	1.0	1	B8L0180	12/07/2018	12/07/18 18:49	
Methylene chloride	ND	1.0	1	B8L0180	12/07/2018	12/07/18 18:49	
n-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
n-Propylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Naphthalene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
o-Xylene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
sec-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Styrene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
tert-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Tetrachloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Toluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Trichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Trichlorofluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Vinyl chloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 18:49	
Surrogate: 1,2-Dichloroethane-d4	*79.9 %*	*57 - 152*		B8L0180	12/07/2018	*12/07/18 18:49*	
Surrogate: 4-Bromofluorobenzene	*80.6 %*	*62 - 134*		B8L0180	12/07/2018	*12/07/18 18:49*	
Surrogate: Dibromofluoromethane	*95.7 %*	*56 - 167*		B8L0180	12/07/2018	*12/07/18 18:49*	
Surrogate: Toluene-d8	*101 %*	*33 - 170*		B8L0180	12/07/2018	*12/07/18 18:49*	

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Client Sample ID CBT

Lab ID: 1804591-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B8L0281	12/10/2018	12/11/18 09:42	
Surrogate: 1,2-Dichlorobenzene-d4	*66.5 %*		*23 - 118*		B8L0281	12/10/2018	*12/11/18 09:42*	
Surrogate: 2-Fluorobiphenyl	*101 %*		*29 - 118*		B8L0281	12/10/2018	*12/11/18 09:42*	
Surrogate: 4-Terphenyl-d14	*77.6 %*		*33 - 121*		B8L0281	12/10/2018	*12/11/18 09:42*	
Surrogate: Nitrobenzene-d5	*83.4 %*		*7 - 120*		B8L0281	12/10/2018	*12/11/18 09:42*	

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Client Sample ID POX

Lab ID: 1804591-04

Alkalinity, Speciated by SM 2320B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Alkalinity, Bicarbonate (as CaCO3)	**220**	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Carbonate (as CaCO3)	ND	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Total (as CaCO3)	**220**	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	

Total Organic Carbon by SM 5310B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	1	B8L0329	12/10/2018	12/10/18 14:49	

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,1,1-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,1,2-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,1-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,1-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,1-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,2,3-Trichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,2-Dibromoethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,2-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,2-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,3-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,3-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
1,4-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
2,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
2-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	

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Lab ID: 1804591-04

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
4-Isopropyltoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Benzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Bromobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Bromodichloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Bromoform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Bromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Carbon tetrachloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Chlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Chloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Chloroform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Chloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Dibromochloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Dibromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Dichlorodifluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Ethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Hexachlorobutadiene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Isopropylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
m,p-Xylene	ND	1.0	1	B8L0180	12/07/2018	12/07/18 19:13	
Methylene chloride	ND	1.0	1	B8L0180	12/07/2018	12/07/18 19:13	
n-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
n-Propylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Naphthalene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
o-Xylene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
sec-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Styrene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
tert-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Tetrachloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Toluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Trichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Trichlorofluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Vinyl chloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:13	
Surrogate: 1,2-Dichloroethane-d4	*85.3 %*	*57 - 152*		B8L0180	12/07/2018	*12/07/18 19:13*	
Surrogate: 4-Bromofluorobenzene	*84.2 %*	*62 - 134*		B8L0180	12/07/2018	*12/07/18 19:13*	

Certificate of Analysis

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San Diego , CA 92122		Reported :	12/21/2018

Client Sample ID POX

Lab ID: 1804591-04

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Dibromofluoromethane	*96.0 %*		*56 - 167*		B8L0180	12/07/2018	*12/07/18 19:13*	
Surrogate: Toluene-d8	*99.0 %*		*33 - 170*		B8L0180	12/07/2018	*12/07/18 19:13*	

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique — **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B8L0281	12/10/2018	12/11/18 10:08	
Surrogate: 1,2-Dichlorobenzene-d4	*66.4 %*		*23 - 118*		B8L0281	12/10/2018	*12/11/18 10:08*	
Surrogate: 2-Fluorobiphenyl	*99.6 %*		*29 - 118*		B8L0281	12/10/2018	*12/11/18 10:08*	
Surrogate: 4-Terphenyl-d14	*75.4 %*		*33 - 121*		B8L0281	12/10/2018	*12/11/18 10:08*	
Surrogate: Nitrobenzene-d5	*87.0 %*		*7 - 120*		B8L0281	12/10/2018	*12/11/18 10:08*	

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Client Sample ID PF

Lab ID: 1804591-05

UV Absorption by EPA 415.3

Analyst: BL

Analyte	Result (1/cm)	PQL (1/cm)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
UV Absorption	ND	0.01	1	B8L0144	12/05/2018	12/05/18 19:08	

Alkalinity, Speciated by SM 2320B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Alkalinity, Bicarbonate (as CaCO3)	**220**	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Carbonate (as CaCO3)	ND	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Total (as CaCO3)	**220**	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D

Analyst: VQ

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	1.0	1	B8L0182	12/06/2018	12/07/18 09:00	

Total Organic Carbon by SM 5310B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	1	B8L0329	12/10/2018	12/10/18 15:02	

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Client Sample ID INF

Lab ID: 1804591-06

Bromide by Ion Chromatography EPA 300 — **Analyst: JL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.32**	0.10	2	B8L0321	12/05/2018	12/05/18 11:03	

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,1,1-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,1,2-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,1-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,1-Dichloroethene	**61**	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,1-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,2,3-Trichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,2-Dibromoethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,2-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,2-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,3-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,3-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
1,4-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
2,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
2-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
4-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
4-Isopropyltoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Benzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Bromobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Bromodichloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Bromoform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Bromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Carbon tetrachloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Chlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	

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Client Sample ID INF

Lab ID: 1804591-06

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Chloroform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Chloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Dibromochloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Dibromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Dichlorodifluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Ethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Hexachlorobutadiene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Isopropylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
m,p-Xylene	ND	1.0	1	B8L0180	12/07/2018	12/07/18 19:36	
Methylene chloride	ND	1.0	1	B8L0180	12/07/2018	12/07/18 19:36	
n-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
n-Propylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Naphthalene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
o-Xylene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
sec-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Styrene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
tert-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Tetrachloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Toluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Trichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Trichlorofluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Vinyl chloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:36	
Surrogate: 1,2-Dichloroethane-d4	*81.4 %*	*57 - 152*		B8L0180	12/07/2018	*12/07/18 19:36*	
Surrogate: 4-Bromofluorobenzene	*85.5 %*	*62 - 134*		B8L0180	12/07/2018	*12/07/18 19:36*	
Surrogate: Dibromofluoromethane	*98.6 %*	*56 - 167*		B8L0180	12/07/2018	*12/07/18 19:36*	
Surrogate: Toluene-d8	*101 %*	*33 - 170*		B8L0180	12/07/2018	*12/07/18 19:36*	

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Client Sample ID INF

Lab ID: 1804591-06

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**24**	2.0	1	B8L0316	12/11/2018	12/11/18 13:56	
Surrogate: 1,2-Dichlorobenzene-d4	*44.1 %*		*34 - 188*		B8L0316	12/11/2018	*12/11/18 13:56*	
Surrogate: 2-Fluorobiphenyl	*50.3 %*		*39 - 108*		B8L0316	12/11/2018	*12/11/18 13:56*	
Surrogate: 4-Terphenyl-d14	*50.9 %*		*71 - 131*		B8L0316	12/11/2018	*12/11/18 13:56*	S2
Surrogate: Nitrobenzene-d5	*57.4 %*		*32 - 106*		B8L0316	12/11/2018	*12/11/18 13:56*	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/21/2018

Client Sample ID EW-02

Lab ID: 1804591-07

Bromide by Ion Chromatography EPA 300 — **Analyst: JL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.26**	0.10	2	B8L0321	12/05/2018	12/05/18 11:15	

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,1,1-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,1,2-Trichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,1-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,1-Dichloroethene	**16**	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,1-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,2,3-Trichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,2-Dibromoethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,2-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,2-Dichloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,3-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,3-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
1,4-Dichlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
2,2-Dichloropropane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
2-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
4-Chlorotoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
4-Isopropyltoluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Benzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Bromobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Bromodichloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Bromoform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Bromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Carbon tetrachloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Chlorobenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	

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Client Sample ID EW-02

Lab ID: 1804591-07

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloroethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Chloroform	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Chloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Dibromochloromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Dibromomethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Dichlorodifluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Ethylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Hexachlorobutadiene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Isopropylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
m,p-Xylene	ND	1.0	1	B8L0180	12/07/2018	12/07/18 19:59	
Methylene chloride	ND	1.0	1	B8L0180	12/07/2018	12/07/18 19:59	
n-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
n-Propylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Naphthalene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
o-Xylene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
sec-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Styrene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
tert-Butylbenzene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Tetrachloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Toluene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Trichloroethene	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Trichlorofluoromethane	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Vinyl chloride	ND	0.50	1	B8L0180	12/07/2018	12/07/18 19:59	
Surrogate: 1,2-Dichloroethane-d4	*82.3 %*	*57 - 152*		B8L0180	12/07/2018	*12/07/18 19:59*	
Surrogate: 4-Bromofluorobenzene	*84.1 %*	*62 - 134*		B8L0180	12/07/2018	*12/07/18 19:59*	
Surrogate: Dibromofluoromethane	*98.9 %*	*56 - 167*		B8L0180	12/07/2018	*12/07/18 19:59*	
Surrogate: Toluene-d8	*96.0 %*	*33 - 170*		B8L0180	12/07/2018	*12/07/18 19:59*	

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Lab ID: 1804591-07

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**5.1**	2.0	1	B8L0316	12/11/2018	12/11/18 15:20	
Surrogate: 1,2-Dichlorobenzene-d4	*49.6 %*		*34 - 188*		B8L0316	12/11/2018	*12/11/18 15:20*	
Surrogate: 2-Fluorobiphenyl	*56.2 %*		*39 - 108*		B8L0316	12/11/2018	*12/11/18 15:20*	
Surrogate: 4-Terphenyl-d14	*58.2 %*		*71 - 131*		B8L0316	12/11/2018	*12/11/18 15:20*	S2
Surrogate: Nitrobenzene-d5	*65.1 %*		*32 - 106*		B8L0316	12/11/2018	*12/11/18 15:20*	

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Client Sample ID MW-29

Lab ID: 1804591-08

Bromide by Ion Chromatography EPA 300 — **Analyst: JL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.48**	0.10	2	B8L0321	12/05/2018	12/05/18 11:26	

Volatile Organic Compounds by EPA 8260B — **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,1,1-Trichloroethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,1,2-Trichloroethane	**0.62**	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,1-Dichloroethane	**1.8**	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,1-Dichloroethene	**150**	5.0	10	B8L0233	12/08/2018	12/08/18 22:04	
1,1-Dichloropropene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,2,3-Trichloropropane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,2-Dibromoethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,2-Dichlorobenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,2-Dichloroethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,2-Dichloropropane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,3-Dichlorobenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,3-Dichloropropane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
1,4-Dichlorobenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
2,2-Dichloropropane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
2-Chlorotoluene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
4-Chlorotoluene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
4-Isopropyltoluene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Benzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Bromobenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Bromodichloromethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Bromoform	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Bromomethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Carbon tetrachloride	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Chlorobenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	

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San Diego , CA 92122	Reported : 12/21/2018

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Lab ID: 1804591-08

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloroethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Chloroform	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Chloromethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Dibromochloromethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Dibromomethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Dichlorodifluoromethane	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Ethylbenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Hexachlorobutadiene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Isopropylbenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
m,p-Xylene	ND	1.0	1	B8L0233	12/08/2018	12/08/18 21:40	
Methylene chloride	ND	1.0	1	B8L0233	12/08/2018	12/08/18 21:40	
n-Butylbenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
n-Propylbenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Naphthalene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
o-Xylene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
sec-Butylbenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Styrene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
tert-Butylbenzene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Tetrachloroethene	**0.50**	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Toluene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Trichloroethene	**1.9**	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Trichlorofluoromethane	**0.79**	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Vinyl chloride	ND	0.50	1	B8L0233	12/08/2018	12/08/18 21:40	
Surrogate: 1,2-Dichloroethane-d4	*118 %*	*57 - 152*		B8L0233	12/08/2018	*12/08/18 22:04*	
Surrogate: 1,2-Dichloroethane-d4	*116 %*	*57 - 152*		B8L0233	12/08/2018	*12/08/18 21:40*	
Surrogate: 4-Bromofluorobenzene	*87.0 %*	*62 - 134*		B8L0233	12/08/2018	*12/08/18 22:04*	
Surrogate: 4-Bromofluorobenzene	*87.7 %*	*62 - 134*		B8L0233	12/08/2018	*12/08/18 21:40*	
Surrogate: Dibromofluoromethane	*113 %*	*56 - 167*		B8L0233	12/08/2018	*12/08/18 22:04*	
Surrogate: Dibromofluoromethane	*111 %*	*56 - 167*		B8L0233	12/08/2018	*12/08/18 21:40*	
Surrogate: Toluene-d8	*95.0 %*	*33 - 170*		B8L0233	12/08/2018	*12/08/18 21:40*	
Surrogate: Toluene-d8	*93.6 %*	*33 - 170*		B8L0233	12/08/2018	*12/08/18 22:04*	

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San Diego , CA 92122	Reported : 12/21/2018

Client Sample ID MW-29

Lab ID: 1804591-08

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**72**	2.0	1	B8L0316	12/11/2018	12/11/18 14:48	
Surrogate: 1,2-Dichlorobenzene-d4	*50.2 %*		*34 - 188*		B8L0316	12/11/2018	*12/11/18 14:48*	
Surrogate: 2-Fluorobiphenyl	*54.4 %*		*39 - 108*		B8L0316	12/11/2018	*12/11/18 14:48*	
Surrogate: 4-Terphenyl-d14	*55.6 %*		*71 - 131*		B8L0316	12/11/2018	*12/11/18 14:48*	S2
Surrogate: Nitrobenzene-d5	*60.7 %*		*32 - 106*		B8L0316	12/11/2018	*12/11/18 14:48*	

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QUALITY CONTROL SECTION

Alkalinity, Speciated by SM 2320B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0318 - No_Prep_WC1_W										
Blank (B8L0318-BLK1)					Prepared: 12/11/2018 Analyzed: 12/11/2018					
Alkalinity, Bicarbonate (as CaCO3)	ND	5.0	3.4							
Alkalinity, Carbonate (as CaCO3)	ND	5.0	3.4							
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	3.4							
Alkalinity, Total (as CaCO3)	ND	5.0	3.4							
LCS (B8L0318-BS1)					Prepared: 12/11/2018 Analyzed: 12/11/2018					
Alkalinity, Total (as CaCO3)	101.270	5.0	3.4	99.9580		101	80 - 120			
Matrix Spike (B8L0318-MS1)			**Source: 1804591-05**		Prepared: 12/11/2018 Analyzed: 12/11/2018					
Alkalinity, Total (as CaCO3)	321.730	5.0	3.4	99.9580	219.410	102	80 - 120			
Matrix Spike Dup (B8L0318-MSD1)			**Source: 1804591-05**		Prepared: 12/11/2018 Analyzed: 12/11/2018					
Alkalinity, Total (as CaCO3)	318.570	5.0	3.4	99.9580	219.410	99.2	80 - 120	0.987	20	

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Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0182 - No_Prep_WC1_W										
Blank (B8L0182-BLK1)					Prepared: 12/6/2018 Analyzed: 12/7/2018					
Residue, Suspended	ND	1.0	1.0							
LCS (B8L0182-BS1)					Prepared: 12/6/2018 Analyzed: 12/7/2018					
Residue, Suspended	97.0000	10	10	97.4000		99.6	80 - 120			
Duplicate (B8L0182-DUP1)			**Source: 1804615-01**		Prepared: 12/6/2018 Analyzed: 12/7/2018					
Residue, Suspended	26.5000	5.0	5.0		25.0000			5.83	10	

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Bromide by Ion Chromatography EPA 300 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0321 - No_Prep_IC1_W										
Blank (B8L0321-BLK1)					Prepared: 12/5/2018 Analyzed: 12/5/2018					
Bromide	ND	0.05	0.01							
LCS (B8L0321-BS1)					Prepared: 12/5/2018 Analyzed: 12/5/2018					
Bromide	0.949000	0.05	0.01	1.00000		94.9	90 - 110			
Duplicate (B8L0321-DUP1)			**Source: 1804592-02**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
Bromide	0.388000	0.50	0.10		0.467000			18.5	20	
Matrix Spike (B8L0321-MS1)			**Source: 1804592-05**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
Bromide	2.69680			2.50000	0.0387	106	80 - 120			
Matrix Spike Dup (B8L0321-MSD1)			**Source: 1804592-05**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
Bromide	2.70970			2.50000	0.0387	107	80 - 120	0.477	20	

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UV Absorption by EPA 415.3 - Quality Control

Analyte	Result (1/cm)	PQL (1/cm)	MDL (1/cm)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0144 - No_Prep_II_W										
Duplicate (B8L0144-DUP1)			**Source: 1804591-05**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
UV Absorption	ND	0.01	0.01		ND			NR	20	
Duplicate (B8L0144-DUP2)			**Source: 1804592-02**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
UV Absorption	ND	0.01	0.01		ND			NR	20	
Duplicate (B8L0144-DUP3)			**Source: 1804592-03**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
UV Absorption	ND	0.01	0.01		ND			NR	20	
Duplicate (B8L0144-DUP4)			**Source: 1804592-04**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
UV Absorption	ND	0.01	0.01		ND			NR	20	
Duplicate (B8L0144-DUP5)			**Source: 1804592-05**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
UV Absorption	ND	0.01	0.01		ND			NR	20	

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Total Organic Carbon by SM 5310B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0329 - No_Prep_II_W										
Blank (B8L0329-BLK1)					Prepared: 12/10/2018 Analyzed: 12/10/2018					
Organic Carbon, Total	ND	3.0	1.8							
LCS (B8L0329-BS1)					Prepared: 12/10/2018 Analyzed: 12/10/2018					
Organic Carbon, Total	20.1400	3.0	1.8	20.0000		101	80 - 120			
LCS Dup (B8L0329-BSD1)					Prepared: 12/10/2018 Analyzed: 12/10/2018					
Organic Carbon, Total	20.9800	3.0	1.8	20.0000		105	80 - 120	4.09	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0180 - MSVOA_W										
Blank (B8L0180-BLK1)					Prepared: 12/7/2018 Analyzed: 12/7/2018					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							

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Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0180 - MSVOA_W (continued)										
Blank (B8L0180-BLK1) - Continued					Prepared: 12/7/2018 Analyzed: 12/7/2018					
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*21.60*			*25.0000*		*86.4*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*22.21*			*25.0000*		*88.8*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.82*			*25.0000*		*95.3*	*56 - 167*			
Surrogate: Toluene-d8	*25.39*			*25.0000*		*102*	*33 - 170*			
LCS (B8L0180-BS1)					Prepared: 12/7/2018 Analyzed: 12/7/2018					
1,1,1,2-Tetrachloroethane	18.2000	0.50	0.11	20.0000		91.0	80 - 137			
1,1,1-Trichloroethane	16.1200	0.50	0.18	20.0000		80.6	75 - 148			
1,1,2,2-Tetrachloroethane	20.5300	0.50	0.17	20.0000		103	64 - 118			
1,1,2-Trichloroethane	19.3600	0.50	0.12	20.0000		96.8	77 - 113			
1,1-Dichloroethane	17.0000	0.50	0.16	20.0000		85.0	72 - 131			
1,1-Dichloroethene	22.2100	0.50	0.09	20.0000		111	75 - 132			
1,1-Dichloropropene	19.1400	0.50	0.21	20.0000		95.7	84 - 141			
1,2,3-Trichloropropane	19.4000	0.50	0.16	20.0000		97.0	65 - 111			
1,2,3-Trichlorobenzene	17.3500	0.50	0.12	20.0000		86.8	79 - 117			
1,2,4-Trichlorobenzene	20.1000	0.50	0.12	20.0000		100	78 - 121			
1,2,4-Trimethylbenzene	19.7300	0.50	0.08	20.0000		98.6	83 - 125			
1,2-Dibromo-3-chloropropane	16.7300	0.50	0.24	20.0000		83.6	54 - 116			
1,2-Dibromoethane	17.9900	0.50	0.11	20.0000		90.0	79 - 118			
1,2-Dichlorobenzene	20.0600	0.50	0.09	20.0000		100	82 - 115			
1,2-Dichloroethane	15.9400	0.50	0.19	20.0000		79.7	76 - 115			
1,2-Dichloropropane	19.2000	0.50	0.36	20.0000		96.0	74 - 113			
1,3,5-Trimethylbenzene	19.4200	0.50	0.05	20.0000		97.1	83 - 126			
1,3-Dichlorobenzene	20.1500	0.50	0.10	20.0000		101	84 - 118			
1,3-Dichloropropane	18.8600	0.50	0.07	20.0000		94.3	72 - 116			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0180 - MSVOA_W (continued)										
LCS (B8L0180-BS1) - Continued					Prepared: 12/7/2018 Analyzed: 12/7/2018					
1,4-Dichlorobenzene	19.8900	0.50	0.07	20.0000		99.4	83 - 112			
2,2-Dichloropropane	16.2200	0.50	0.16	20.0000		81.1	72 - 150			
2-Chlorotoluene	19.6300	0.50	0.08	20.0000		98.2	82 - 120			
4-Chlorotoluene	20.0900	0.50	0.08	20.0000		100	81 - 121			
4-Isopropyltoluene	19.5800	0.50	0.06	20.0000		97.9	86 - 124			
Benzene	39.1400	0.50	0.03	40.0000		97.8	81 - 118			
Bromobenzene	19.2100	0.50	0.09	20.0000		96.0	82 - 117			
Bromodichloromethane	18.4600	0.50	0.14	20.0000		92.3	80 - 122			
Bromoform	19.6200	0.50	0.13	20.0000		98.1	53 - 145			
Bromomethane	47.2800	0.50	0.42	20.0000		236	30 - 204			L5
Carbon tetrachloride	15.6100	0.50	0.19	20.0000		78.0	77 - 157			
Chlorobenzene	19.2400	0.50	0.07	20.0000		96.2	86 - 113			
Chloroethane	24.6600	0.50	0.40	20.0000		123	70 - 160			
Chloroform	17.4700	0.50	0.17	20.0000		87.4	66 - 136			
Chloromethane	11.3900	0.50	0.08	20.0000		57.0	52 - 138			
cis-1,2-Dichloroethene	19.0300	0.50	0.13	20.0000		95.2	71 - 128			
cis-1,3-Dichloropropene	18.3900	0.50	0.05	20.0000		92.0	71 - 123			
Dibromochloromethane	19.7800	0.50	0.14	20.0000		98.9	78 - 140			
Dibromomethane	18.1700	0.50	0.10	20.0000		90.8	78 - 109			
Dichlorodifluoromethane	14.3400	0.50	0.10	20.0000		71.7	64 - 144			
Ethylbenzene	39.4800	0.50	0.07	40.0000		98.7	90 - 116			
Hexachlorobutadiene	17.6800	0.50	0.14	20.0000		88.4	81 - 129			
Isopropylbenzene	19.8700	0.50	0.05	20.0000		99.4	83 - 129			
m,p-Xylene	39.3700	1.0	0.08	40.0000		98.4	88 - 124			
Methylene chloride	25.9300	1.0	0.46	20.0000		130	76 - 137			
n-Butylbenzene	20.7700	0.50	0.05	20.0000		104	83 - 129			
n-Propylbenzene	20.9100	0.50	0.07	20.0000		105	85 - 124			
Naphthalene	17.0600	0.50	0.15	20.0000		85.3	67 - 113			
o-Xylene	37.3600	0.50	0.05	40.0000		93.4	82 - 129			
sec-Butylbenzene	19.8600	0.50	0.04	20.0000		99.3	86 - 127			
Styrene	19.7000	0.50	0.06	20.0000		98.5	83 - 122			
tert-Butylbenzene	19.0400	0.50	0.06	20.0000		95.2	84 - 130			
Tetrachloroethene	19.6200	0.50	0.07	20.0000		98.1	87 - 123			
Toluene	39.6700	0.50	0.07	40.0000		99.2	84 - 115			
trans-1,2-Dichloroethene	23.1400	0.50	0.11	20.0000		116	60 - 148			
Trichloroethene	17.0700	0.50	0.05	20.0000		85.4	79 - 129			
Trichlorofluoromethane	22.1200	0.50	0.14	20.0000		111	68 - 162			
Vinyl chloride	18.7100	0.50	0.05	20.0000		93.6	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*20.04*			*25.0000*		*80.2*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*22.25*			*25.0000*		*89.0*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.56*			*25.0000*		*98.2*	*56 - 167*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0180 - MSVOA_W (continued)										
LCS (B8L0180-BS1) - Continued					Prepared: 12/7/2018 Analyzed: 12/7/2018					
Surrogate: Toluene-d8	*24.43*			*25.0000*		*97.7*	*33 - 170*			
LCS Dup (B8L0180-BSD1)					Prepared: 12/7/2018 Analyzed: 12/7/2018					
1,1,1,2-Tetrachloroethane	19.2600	0.50	0.11	20.0000		96.3	80 - 137	5.66	20	
1,1,1-Trichloroethane	16.4600	0.50	0.18	20.0000		82.3	75 - 148	2.09	20	
1,1,2,2-Tetrachloroethane	21.6700	0.50	0.17	20.0000		108	64 - 118	5.40	20	
1,1,2-Trichloroethane	21.4800	0.50	0.12	20.0000		107	77 - 113	10.4	20	
1,1-Dichloroethane	17.8400	0.50	0.16	20.0000		89.2	72 - 131	4.82	20	
1,1-Dichloroethene	24.3700	0.50	0.09	20.0000		122	75 - 132	9.27	20	
1,1-Dichloropropene	19.8000	0.50	0.21	20.0000		99.0	84 - 141	3.39	20	
1,2,3-Trichloropropane	19.8600	0.50	0.16	20.0000		99.3	65 - 111	2.34	20	
1,2,3-Trichlorobenzene	19.2000	0.50	0.12	20.0000		96.0	79 - 117	10.1	20	
1,2,4-Trichlorobenzene	21.2900	0.50	0.12	20.0000		106	78 - 121	5.75	20	
1,2,4-Trimethylbenzene	20.8100	0.50	0.08	20.0000		104	83 - 125	5.33	20	
1,2-Dibromo-3-chloropropane	16.8700	0.50	0.24	20.0000		84.4	54 - 116	0.833	20	
1,2-Dibromoethane	20.3200	0.50	0.11	20.0000		102	79 - 118	12.2	20	
1,2-Dichlorobenzene	21.1000	0.50	0.09	20.0000		106	82 - 115	5.05	20	
1,2-Dichloroethane	16.4500	0.50	0.19	20.0000		82.2	76 - 115	3.15	20	
1,2-Dichloropropane	20.7400	0.50	0.36	20.0000		104	74 - 113	7.71	20	
1,3,5-Trimethylbenzene	20.7800	0.50	0.05	20.0000		104	83 - 126	6.77	20	
1,3-Dichlorobenzene	21.1100	0.50	0.10	20.0000		106	84 - 118	4.65	20	
1,3-Dichloropropane	20.2000	0.50	0.07	20.0000		101	72 - 116	6.86	20	
1,4-Dichlorobenzene	21.3300	0.50	0.07	20.0000		107	83 - 112	6.99	20	
2,2-Dichloropropane	17.0600	0.50	0.16	20.0000		85.3	72 - 150	5.05	20	
2-Chlorotoluene	20.8000	0.50	0.08	20.0000		104	82 - 120	5.79	20	
4-Chlorotoluene	21.1200	0.50	0.08	20.0000		106	81 - 121	5.00	20	
4-Isopropyltoluene	20.8600	0.50	0.06	20.0000		104	86 - 124	6.33	20	
Benzene	42.1700	0.50	0.03	40.0000		105	81 - 118	7.45	20	
Bromobenzene	20.3600	0.50	0.09	20.0000		102	82 - 117	5.81	20	
Bromodichloromethane	19.0200	0.50	0.14	20.0000		95.1	80 - 122	2.99	20	
Bromoform	20.2700	0.50	0.13	20.0000		101	53 - 145	3.26	20	
Bromomethane	47.9100	0.50	0.42	20.0000		240	30 - 204	1.32	20	L5
Carbon tetrachloride	17.2900	0.50	0.19	20.0000		86.4	77 - 157	10.2	20	
Chlorobenzene	20.0200	0.50	0.07	20.0000		100	86 - 113	3.97	20	
Chloroethane	26.4900	0.50	0.40	20.0000		132	70 - 160	7.16	20	
Chloroform	18.5800	0.50	0.17	20.0000		92.9	66 - 136	6.16	20	
Chloromethane	12.3100	0.50	0.08	20.0000		61.6	52 - 138	7.76	20	
cis-1,2-Dichloroethene	19.8000	0.50	0.13	20.0000		99.0	71 - 128	3.97	20	
cis-1,3-Dichloropropene	19.1100	0.50	0.05	20.0000		95.6	71 - 123	3.84	20	
Dibromochloromethane	20.8500	0.50	0.14	20.0000		104	78 - 140	5.27	20	
Dibromomethane	20.4500	0.50	0.10	20.0000		102	78 - 109	11.8	20	
Dichlorodifluoromethane	15.0200	0.50	0.10	20.0000		75.1	64 - 144	4.63	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0180 - MSVOA_W (continued)										
LCS Dup (B8L0180-BSD1) - Continued					Prepared: 12/7/2018 Analyzed: 12/7/2018					
Ethylbenzene	41.8900	0.50	0.07	40.0000		105	90 - 116	5.92	20	
Hexachlorobutadiene	19.5600	0.50	0.14	20.0000		97.8	81 - 129	10.1	20	
Isopropylbenzene	21.3100	0.50	0.05	20.0000		107	83 - 129	6.99	20	
m,p-Xylene	41.8900	1.0	0.08	40.0000		105	88 - 124	6.20	20	
Methylene chloride	25.7100	1.0	0.46	20.0000		129	76 - 137	0.852	20	
n-Butylbenzene	22.0800	0.50	0.05	20.0000		110	83 - 129	6.11	20	
n-Propylbenzene	21.8800	0.50	0.07	20.0000		109	85 - 124	4.53	20	
Naphthalene	18.1900	0.50	0.15	20.0000		91.0	67 - 113	6.41	20	
o-Xylene	41.0500	0.50	0.05	40.0000		103	82 - 129	9.41	20	
sec-Butylbenzene	21.1200	0.50	0.04	20.0000		106	86 - 127	6.15	20	
Styrene	20.5600	0.50	0.06	20.0000		103	83 - 122	4.27	20	
tert-Butylbenzene	20.7200	0.50	0.06	20.0000		104	84 - 130	8.45	20	
Tetrachloroethene	20.9100	0.50	0.07	20.0000		105	87 - 123	6.37	20	
Toluene	42.9500	0.50	0.07	40.0000		107	84 - 115	7.94	20	
trans-1,2-Dichloroethene	24.3300	0.50	0.11	20.0000		122	60 - 148	5.01	20	
Trichloroethene	18.6100	0.50	0.05	20.0000		93.0	79 - 129	8.63	20	
Trichlorofluoromethane	23.6600	0.50	0.14	20.0000		118	68 - 162	6.73	20	
Vinyl chloride	19.4400	0.50	0.05	20.0000		97.2	73 - 128	3.83	20	
Surrogate: 1,2-Dichloroethane-d4	*21.03*			*25.0000*		*84.1*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*22.83*			*25.0000*		*91.3*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.95*			*25.0000*		*95.8*	*56 - 167*			
Surrogate: Toluene-d8	*25.22*			*25.0000*		*101*	*33 - 170*			
Duplicate (B8L0180-DUP1)			**Source: 1804573-07**		Prepared: 12/7/2018 Analyzed: 12/7/2018					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11		ND				20	
1,1,1-Trichloroethane	ND	0.50	0.18		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	0.17		ND				20	
1,1,2-Trichloroethane	ND	0.50	0.12		ND				20	
1,1-Dichloroethane	0.750000	0.50	0.16		0.810000			7.69	20	
1,1-Dichloroethene	ND	0.50	0.09		ND				20	
1,1-Dichloropropene	ND	0.50	0.21		ND				20	
1,2,3-Trichloropropane	ND	0.50	0.16		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	0.12		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	0.12		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	0.08		ND				20	
1,2-Dibromo-3-chloropropane	ND	0.50	0.24		ND				20	
1,2-Dibromoethane	ND	0.50	0.11		ND				20	
1,2-Dichlorobenzene	ND	0.50	0.09		ND				20	
1,2-Dichloroethane	ND	0.50	0.19		ND				20	
1,2-Dichloropropane	ND	0.50	0.36		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	0.05		ND				20	

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0180 - MSVOA_W (continued)										
Duplicate (B8L0180-DUP1) - Continued			**Source: 1804573-07**		Prepared: 12/7/2018 Analyzed: 12/7/2018					
1,3-Dichlorobenzene	ND	0.50	0.10		ND				20	
1,3-Dichloropropane	ND	0.50	0.07		ND				20	
1,4-Dichlorobenzene	ND	0.50	0.07		ND				20	
2,2-Dichloropropane	ND	0.50	0.16		ND				20	
2-Chlorotoluene	ND	0.50	0.08		ND				20	
4-Chlorotoluene	ND	0.50	0.08		ND				20	
4-Isopropyltoluene	ND	0.50	0.06		ND				20	
Benzene	0.480000	0.50	0.03		0.360000			28.6	20	R
Bromobenzene	ND	0.50	0.09		ND				20	
Bromodichloromethane	ND	0.50	0.14		ND				20	
Bromoform	ND	0.50	0.13		ND				20	
Bromomethane	ND	0.50	0.42		ND				20	
Carbon tetrachloride	ND	0.50	0.19		ND				20	
Chlorobenzene	ND	0.50	0.07		ND				20	
Chloroethane	ND	0.50	0.40		ND				20	
Chloroform	ND	0.50	0.17		0.360000			NR	20	
Chloromethane	ND	0.50	0.08		ND				20	
cis-1,2-Dichloroethene	ND	0.50	0.13		ND				20	
cis-1,3-Dichloropropene	ND	0.50	0.05		ND				20	
Dibromochloromethane	ND	0.50	0.14		ND				20	
Dibromomethane	ND	0.50	0.10		ND				20	
Dichlorodifluoromethane	ND	0.50	0.10		ND				20	
Ethylbenzene	0.200000	0.50	0.07		0.240000			18.2	20	
Hexachlorobutadiene	ND	0.50	0.14		ND				20	
Isopropylbenzene	ND	0.50	0.05		ND				20	
m,p-Xylene	0.240000	1.0	0.08		0.240000			0.00	20	
Methylene chloride	ND	1.0	0.46		ND				20	
n-Butylbenzene	ND	0.50	0.05		ND				20	
n-Propylbenzene	ND	0.50	0.07		ND				20	
Naphthalene	ND	0.50	0.15		ND				20	
o-Xylene	ND	0.50	0.05		ND				20	
sec-Butylbenzene	ND	0.50	0.04		ND				20	
Styrene	ND	0.50	0.06		ND				20	
tert-Butylbenzene	ND	0.50	0.06		ND				20	
Tetrachloroethene	ND	0.50	0.07		ND				20	
Toluene	ND	0.50	0.07		ND				20	
trans-1,2-Dichloroethene	ND	0.50	0.11		ND				20	
Trichloroethene	ND	0.50	0.05		ND				20	
Trichlorofluoromethane	ND	0.50	0.14		ND				20	
Vinyl chloride	ND	0.50	0.05		ND				20	
Surrogate: 1,2-Dichloroethane-d4	*20.26*			*25.0000*		*81.0*	*57 - 152*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0180 - MSVOA_W (continued)									
Duplicate (B8L0180-DUP1) - Continued			**Source: 1804573-07**		Prepared: 12/7/2018 Analyzed: 12/7/2018				
Surrogate: 4-Bromofluorobenzene	*21.26*		*25.0000*		*85.0*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.37*		*25.0000*		*93.5*	*56 - 167*			
Surrogate: Toluene-d8	*24.30*		*25.0000*		*97.2*	*33 - 170*			

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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0233 - MSVOA_W										
Blank (B8L0233-BLK1)					Prepared: 12/8/2018 Analyzed: 12/8/2018					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0233 - MSVOA_W (continued)										
Blank (B8L0233-BLK1) - Continued					Prepared: 12/8/2018 Analyzed: 12/8/2018					
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*27.83*			*25.0000*		*111*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*21.88*			*25.0000*		*87.5*	*62 - 134*			
Surrogate: Dibromofluoromethan	*27.45*			*25.0000*		*110*	*56 - 167*			
Surrogate: Toluene-d8	*24.00*			*25.0000*		*96.0*	*33 - 170*			
LCS (B8L0233-BS1)					Prepared: 12/8/2018 Analyzed: 12/8/2018					
1,1,1,2-Tetrachloroethane	22.0500	0.50	0.11	20.0000		110	80 - 137			
1,1,1-Trichloroethane	20.4400	0.50	0.18	20.0000		102	75 - 148			
1,1,2,2-Tetrachloroethane	21.0300	0.50	0.17	20.0000		105	64 - 118			
1,1,2-Trichloroethane	19.6800	0.50	0.12	20.0000		98.4	77 - 113			
1,1-Dichloroethane	21.5200	0.50	0.16	20.0000		108	72 - 131			
1,1-Dichloroethene	20.3800	0.50	0.09	20.0000		102	75 - 132			
1,1-Dichloropropene	20.6100	0.50	0.21	20.0000		103	84 - 141			
1,2,3-Trichloropropane	20.7400	0.50	0.16	20.0000		104	65 - 111			
1,2,3-Trichlorobenzene	24.3000	0.50	0.12	20.0000		122	79 - 117			L4
1,2,4-Trichlorobenzene	22.3300	0.50	0.12	20.0000		112	78 - 121			
1,2,4-Trimethylbenzene	20.3200	0.50	0.08	20.0000		102	83 - 125			
1,2-Dibromo-3-chloropropane	20.8400	0.50	0.24	20.0000		104	54 - 116			
1,2-Dibromoethane	18.9000	0.50	0.11	20.0000		94.5	79 - 118			
1,2-Dichlorobenzene	19.2700	0.50	0.09	20.0000		96.4	82 - 115			
1,2-Dichloroethane	19.7400	0.50	0.19	20.0000		98.7	76 - 115			
1,2-Dichloropropane	19.3400	0.50	0.36	20.0000		96.7	74 - 113			
1,3,5-Trimethylbenzene	20.4700	0.50	0.05	20.0000		102	83 - 126			
1,3-Dichlorobenzene	19.1300	0.50	0.10	20.0000		95.6	84 - 118			
1,3-Dichloropropane	21.3500	0.50	0.07	20.0000		107	72 - 116			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0233 - MSVOA_W (continued)										
LCS (B8L0233-BS1) - Continued					Prepared: 12/8/2018 Analyzed: 12/8/2018					
1,4-Dichlorobenzene	19.1200	0.50	0.07	20.0000		95.6	83 - 112			
2,2-Dichloropropane	20.1200	0.50	0.16	20.0000		101	72 - 150			
2-Chlorotoluene	19.4300	0.50	0.08	20.0000		97.2	82 - 120			
4-Chlorotoluene	19.3200	0.50	0.08	20.0000		96.6	81 - 121			
4-Isopropyltoluene	20.0000	0.50	0.06	20.0000		100	86 - 124			
Benzene	39.0900	0.50	0.03	40.0000		97.7	81 - 118			
Bromobenzene	19.7400	0.50	0.09	20.0000		98.7	82 - 117			
Bromodichloromethane	19.5900	0.50	0.14	20.0000		98.0	80 - 122			
Bromoform	19.7700	0.50	0.13	20.0000		98.8	53 - 145			
Bromomethane	29.3400	0.50	0.42	20.0000		147	30 - 204			
Carbon tetrachloride	20.1900	0.50	0.19	20.0000		101	77 - 157			
Chlorobenzene	19.2700	0.50	0.07	20.0000		96.4	86 - 113			
Chloroethane	17.7500	0.50	0.40	20.0000		88.8	70 - 160			
Chloroform	21.0200	0.50	0.17	20.0000		105	66 - 136			
Chloromethane	14.7900	0.50	0.08	20.0000		74.0	52 - 138			
cis-1,2-Dichloroethene	20.6700	0.50	0.13	20.0000		103	71 - 128			
cis-1,3-Dichloropropene	21.8500	0.50	0.05	20.0000		109	71 - 123			
Dibromochloromethane	22.1500	0.50	0.14	20.0000		111	78 - 140			
Dibromomethane	19.6700	0.50	0.10	20.0000		98.4	78 - 109			
Dichlorodifluoromethane	17.4400	0.50	0.10	20.0000		87.2	64 - 144			
Ethylbenzene	37.2000	0.50	0.07	40.0000		93.0	90 - 116			
Hexachlorobutadiene	20.4500	0.50	0.14	20.0000		102	81 - 129			
Isopropylbenzene	22.5000	0.50	0.05	20.0000		112	83 - 129			
m,p-Xylene	38.2600	1.0	0.08	40.0000		95.6	88 - 124			
Methylene chloride	18.5700	1.0	0.46	20.0000		92.8	76 - 137			
n-Butylbenzene	19.8200	0.50	0.05	20.0000		99.1	83 - 129			
n-Propylbenzene	20.0000	0.50	0.07	20.0000		100	85 - 124			
Naphthalene	23.0200	0.50	0.15	20.0000		115	67 - 113			L4
o-Xylene	37.3600	0.50	0.05	40.0000		93.4	82 - 129			
sec-Butylbenzene	20.0200	0.50	0.04	20.0000		100	86 - 127			
Styrene	18.8400	0.50	0.06	20.0000		94.2	83 - 122			
tert-Butylbenzene	20.2900	0.50	0.06	20.0000		101	84 - 130			
Tetrachloroethene	20.6900	0.50	0.07	20.0000		103	87 - 123			
Toluene	36.7400	0.50	0.07	40.0000		91.8	84 - 115			
trans-1,2-Dichloroethene	20.4100	0.50	0.11	20.0000		102	60 - 148			
Trichloroethene	19.5900	0.50	0.05	20.0000		98.0	79 - 129			
Trichlorofluoromethane	21.4000	0.50	0.14	20.0000		107	68 - 162			
Vinyl chloride	16.1300	0.50	0.05	20.0000		80.6	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*26.64*			*25.0000*		*107*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*23.48*			*25.0000*		*93.9*	*62 - 134*			
Surrogate: Dibromofluoromethan	*26.60*			*25.0000*		*106*	*56 - 167*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0233 - MSVOA_W (continued)										
LCS (B8L0233-BS1) - Continued					Prepared: 12/8/2018 Analyzed: 12/8/2018					
Surrogate: Toluene-d8	*24.25*			*25.0000*		*97.0*	*33 - 170*			
LCS Dup (B8L0233-BSD1)					Prepared: 12/8/2018 Analyzed: 12/8/2018					
1,1,1,2-Tetrachloroethane	22.3400	0.50	0.11	20.0000		112	80 - 137	1.31	20	
1,1,1-Trichloroethane	20.4600	0.50	0.18	20.0000		102	75 - 148	0.0978	20	
1,1,2,2-Tetrachloroethane	21.8000	0.50	0.17	20.0000		109	64 - 118	3.60	20	
1,1,2-Trichloroethane	20.6800	0.50	0.12	20.0000		103	77 - 113	4.96	20	
1,1-Dichloroethane	21.8100	0.50	0.16	20.0000		109	72 - 131	1.34	20	
1,1-Dichloroethene	19.9200	0.50	0.09	20.0000		99.6	75 - 132	2.28	20	
1,1-Dichloropropene	20.7400	0.50	0.21	20.0000		104	84 - 141	0.629	20	
1,2,3-Trichloropropane	21.7300	0.50	0.16	20.0000		109	65 - 111	4.66	20	
1,2,3-Trichlorobenzene	23.9900	0.50	0.12	20.0000		120	79 - 117	1.28	20	L4
1,2,4-Trichlorobenzene	22.4200	0.50	0.12	20.0000		112	78 - 121	0.402	20	
1,2,4-Trimethylbenzene	20.4700	0.50	0.08	20.0000		102	83 - 125	0.735	20	
1,2-Dibromo-3-chloropropane	20.6900	0.50	0.24	20.0000		103	54 - 116	0.722	20	
1,2-Dibromoethane	19.8300	0.50	0.11	20.0000		99.2	79 - 118	4.80	20	
1,2-Dichlorobenzene	19.5500	0.50	0.09	20.0000		97.8	82 - 115	1.44	20	
1,2-Dichloroethane	20.3100	0.50	0.19	20.0000		102	76 - 115	2.85	20	
1,2-Dichloropropane	19.6900	0.50	0.36	20.0000		98.4	74 - 113	1.79	20	
1,3,5-Trimethylbenzene	20.8300	0.50	0.05	20.0000		104	83 - 126	1.74	20	
1,3-Dichlorobenzene	19.4500	0.50	0.10	20.0000		97.2	84 - 118	1.66	20	
1,3-Dichloropropane	22.2600	0.50	0.07	20.0000		111	72 - 116	4.17	20	
1,4-Dichlorobenzene	19.3400	0.50	0.07	20.0000		96.7	83 - 112	1.14	20	
2,2-Dichloropropane	20.3700	0.50	0.16	20.0000		102	72 - 150	1.23	20	
2-Chlorotoluene	19.7100	0.50	0.08	20.0000		98.6	82 - 120	1.43	20	
4-Chlorotoluene	19.7800	0.50	0.08	20.0000		98.9	81 - 121	2.35	20	
4-Isopropyltoluene	20.4200	0.50	0.06	20.0000		102	86 - 124	2.08	20	
Benzene	39.7100	0.50	0.03	40.0000		99.3	81 - 118	1.57	20	
Bromobenzene	20.0700	0.50	0.09	20.0000		100	82 - 117	1.66	20	
Bromodichloromethane	20.0900	0.50	0.14	20.0000		100	80 - 122	2.52	20	
Bromoform	20.5500	0.50	0.13	20.0000		103	53 - 145	3.87	20	
Bromomethane	30.6700	0.50	0.42	20.0000		153	30 - 204	4.43	20	
Carbon tetrachloride	20.3500	0.50	0.19	20.0000		102	77 - 157	0.789	20	
Chlorobenzene	19.6400	0.50	0.07	20.0000		98.2	86 - 113	1.90	20	
Chloroethane	18.0100	0.50	0.40	20.0000		90.0	70 - 160	1.45	20	
Chloroform	21.2500	0.50	0.17	20.0000		106	66 - 136	1.09	20	
Chloromethane	14.5700	0.50	0.08	20.0000		72.8	52 - 138	1.50	20	
cis-1,2-Dichloroethene	20.7900	0.50	0.13	20.0000		104	71 - 128	0.579	20	
cis-1,3-Dichloropropene	22.3000	0.50	0.05	20.0000		112	71 - 123	2.04	20	
Dibromochloromethane	22.7500	0.50	0.14	20.0000		114	78 - 140	2.67	20	
Dibromomethane	20.3600	0.50	0.10	20.0000		102	78 - 109	3.45	20	
Dichlorodifluoromethane	17.4500	0.50	0.10	20.0000		87.2	64 - 144	0.0573	20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/21/2018

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0233 - MSVOA_W (continued)										
LCS Dup (B8L0233-BSD1) - Continued					Prepared: 12/8/2018 Analyzed: 12/8/2018					
Ethylbenzene	38.0600	0.50	0.07	40.0000		95.2	90 - 116	2.29	20	
Hexachlorobutadiene	20.3000	0.50	0.14	20.0000		102	81 - 129	0.736	20	
Isopropylbenzene	22.7800	0.50	0.05	20.0000		114	83 - 129	1.24	20	
m,p-Xylene	39.2000	1.0	0.08	40.0000		98.0	88 - 124	2.43	20	
Methylene chloride	18.8400	1.0	0.46	20.0000		94.2	76 - 137	1.44	20	
n-Butylbenzene	20.0700	0.50	0.05	20.0000		100	83 - 129	1.25	20	
n-Propylbenzene	20.4400	0.50	0.07	20.0000		102	85 - 124	2.18	20	
Naphthalene	22.7100	0.50	0.15	20.0000		114	67 - 113	1.36	20	L4
o-Xylene	38.3200	0.50	0.05	40.0000		95.8	82 - 129	2.54	20	
sec-Butylbenzene	20.4200	0.50	0.04	20.0000		102	86 - 127	1.98	20	
Styrene	19.4700	0.50	0.06	20.0000		97.4	83 - 122	3.29	20	
tert-Butylbenzene	20.5400	0.50	0.06	20.0000		103	84 - 130	1.22	20	
Tetrachloroethene	20.9900	0.50	0.07	20.0000		105	87 - 123	1.44	20	
Toluene	37.8400	0.50	0.07	40.0000		94.6	84 - 115	2.95	20	
trans-1,2-Dichloroethene	20.2300	0.50	0.11	20.0000		101	60 - 148	0.886	20	
Trichloroethene	19.9100	0.50	0.05	20.0000		99.6	79 - 129	1.62	20	
Trichlorofluoromethane	21.5300	0.50	0.14	20.0000		108	68 - 162	0.606	20	
Vinyl chloride	15.9300	0.50	0.05	20.0000		79.6	73 - 128	1.25	20	
Surrogate: 1,2-Dichloroethane-d4	*27.08*			*25.0000*		*108*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*24.07*			*25.0000*		*96.3*	*62 - 134*			
Surrogate: Dibromofluoromethan	*26.65*			*25.0000*		*107*	*56 - 167*			
Surrogate: Toluene-d8	*24.63*			*25.0000*		*98.5*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/21/2018

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0316 - MSSEMI_W										
Blank (B8L0316-BLK1)					Prepared: 12/11/2018 Analyzed: 12/11/2018					
1,4-Dioxane	ND	2.0	0.84							
Surrogate: 1,2-Dichlorobenzene-d	*46.33*			*100.000*		*46.3*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*52.81*			*100.000*		*52.8*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*54.62*			*100.000*		*54.6*	*71 - 131*			S2
Surrogate: Nitrobenzene-d5	*59.43*			*100.000*		*59.4*	*32 - 106*			
LCS (B8L0316-BS1)					Prepared: 12/11/2018 Analyzed: 12/11/2018					
1,4-Dioxane	87.3800	2.0	0.84	100.000		87.4	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*45.15*			*100.000*		*45.2*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*55.80*			*100.000*		*55.8*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*52.18*			*100.000*		*52.2*	*71 - 131*			S2
Surrogate: Nitrobenzene-d5	*63.79*			*100.000*		*63.8*	*32 - 106*			
LCS Dup (B8L0316-BSD1)					Prepared: 12/11/2018 Analyzed: 12/11/2018					
1,4-Dioxane	108.040	2.0	0.84	100.000		108	40 - 159	21.1	20	R
Surrogate: 1,2-Dichlorobenzene-d	*41.70*			*100.000*		*41.7*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*50.91*			*100.000*		*50.9*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*49.04*			*100.000*		*49.0*	*71 - 131*			S2
Surrogate: Nitrobenzene-d5	*56.74*			*100.000*		*56.7*	*32 - 106*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/21/2018

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0281 - MSSEMI_W										
Blank (B8L0281-BLK1)						Prepared: 12/10/2018 Analyzed: 12/10/2018				
1,4-Dioxane	ND	0.20	0.11							
Surrogate: 1,2-Dichlorobenzene-d	*0.6711*			*1.00000*		*67.1*	*23 - 118*			
Surrogate: 2-Fluorobiphenyl	*0.8729*			*1.00000*		*87.3*	*29 - 118*			
Surrogate: 4-Terphenyl-d14	*0.9128*			*1.00000*		*91.3*	*33 - 121*			
Surrogate: Nitrobenzene-d5	*0.8445*			*1.00000*		*84.4*	*7 - 120*			
LCS (B8L0281-BS1)						Prepared: 12/10/2018 Analyzed: 12/10/2018				
1,4-Dioxane	1.41153	0.20	0.11	1.00000		141	47 - 148			
Surrogate: 1,2-Dichlorobenzene-d	*0.6448*			*1.00000*		*64.5*	*23 - 118*			
Surrogate: 2-Fluorobiphenyl	*0.9799*			*1.00000*		*98.0*	*29 - 118*			
Surrogate: 4-Terphenyl-d14	*0.8873*			*1.00000*		*88.7*	*33 - 121*			
Surrogate: Nitrobenzene-d5	*0.8653*			*1.00000*		*86.5*	*7 - 120*			
LCS Dup (B8L0281-BSD1)						Prepared: 12/10/2018 Analyzed: 12/10/2018				
1,4-Dioxane	1.39031	0.20	0.11	1.00000		139	47 - 148	1.51	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.6698*			*1.00000*		*67.0*	*23 - 118*			
Surrogate: 2-Fluorobiphenyl	*0.9543*			*1.00000*		*95.4*	*29 - 118*			
Surrogate: 4-Terphenyl-d14	*0.8973*			*1.00000*		*89.7*	*33 - 121*			
Surrogate: Nitrobenzene-d5	*0.8662*			*1.00000*		*86.6*	*7 - 120*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	12/21/2018

Notes and Definitions

S2	Surrogate recovery was below laboratory acceptance limit. Reextraction and/or reanalysisconfirms low recovery caused by matrix effects.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
L5	Laboratory Control Sample high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com

Testing, calibrating, advising

Certificate of Analysis

December 21, 2018

Advanced Technology Laboratories
PO Box 92797
Long Beach, CA 90809-2797

Attn: Rachelle Arada

Exova Job No:	227422
Purchase Order:	CREDIT CARD
Project Name:	1804591 / Groundwater
Samples Received:	2
Date Received:	12-05-18

Analysis	Page
Bromate by SOP 5600, Rev 3	2

Michael Shelton
Technical Director

Ishika Lokuge
Senior Chemist

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All samples will be disposed of 30 days past invoice unless prior arrangements have been made.

Bromate by SOP 5600, Rev 3
Ion Chromatography-Tandem Mass Spectrometry

Sample preparation: An aliquot of sample was spiked with internal standard (bromate-$^{18}O_3$), and diluted with water. The sample solutions were analyzed using IC-MS/MS.

Parts Per Billion (µg/L)

Sample ID	Result
ATL Lab#: 1804591-04 / POX	ND
ATL Lab#: 1804591-06 / INF	ND
Method Blank	ND
Detection Limit	0.5

Date Analyzed: 12-19-18

Quality Control Summary

Sample ID: ATL Lab#: 1804591-04 / POX

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate	Duplicate % Rec	RPD
Bromate	ND	10.0	10.4	104	8.99	90	15
QC Guidelines				80-120		80-120	NMT 15

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All samples will be disposed of 30 days past invoice unless prior arrangements have been made.

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER

Work Order: 1804591

SENDING LABORATORY:	RECEIVING LABORATORY:
Advanced Technology Laboratories	Exova Inc.
3275 Walnut Avenue	9240 Santa Fe Springs Road
Signal Hill, CA 90755	Santa Fe Springs, CA 90670
Phone: 562.989.4045	Phone :(562) 948-2225
Fax: 562.989.6348	Fax: (562) 948-5850
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC13362- STANDARD TAT
Sampler: Ross Horton	

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1804591-04 ① / POX		**Groundwater**	**12/04/18 11:35**	
Bromate_ICMS/MS_SUB	**12/19/18 17:00**	01/01/19 11:35		
[Bromate by IC-MS/MS]				
1-Poly Unpres - 125mL				
ATL Lab#: 1804591-06 ② / INF		**Groundwater**	**12/04/18 11:50**	
Bromate_ICMS/MS_SUB	**12/19/18 17:00**	01/01/19 11:50		
[Bromate by IC-MS/MS]				
1-Poly Unpres - 125mL				

12.05.18 CM: Also has:
① H
② F

227422

Released By	Date	Received By	Date
	12/5/18 15:58		12.05.18 3:58pm
Released By	Date	Received By	Date

HARGIS+ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 12/04/2018
Page 1 of 1

PROJECT: Raytheon Main GETS Monthly Sample

TASK NO.: 532.15

Project Manager Steve Netto
QA Manager Ross Horton
Phone 858.455.6500
Fax 858.455.6533

Sampled By: Ross Horton

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Groundwater	Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Ice	CONTAINERS: 40-ml VOA	125 mL Poly	250 mL Poly	250 mL Glass	1 L Poly	1L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	Bromate by EPA 317	Bromide by EPA 300	Alkalinity by SM2320B	Total Organic Carbon by SM5310B	Total Suspended Solids by SM2540D	UV Absorption EPA 415.3 @254 nm	1,4-Dioxane by EPA 8270C MOD	1,4-Dioxane by EPA 8270 SIM	Expected Concentration Range (ppb) for VOAs: 0 - 10	10 - 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 Hour TAT	5 Day TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1804591-01	TB-120418	12/4/2018	8:00		X	X				X	2						X								X							X		
-02	CEFF	12/4/2018	11:20	X		X				X	3					1	X								X							X		
-03	CBT	12/4/2018	11:30	X		X				X	3					1	X								X							X		
-04	POX	12/4/2018	11:35	X		X				X	5	1	1			1	X	X		X	X				X	X						X		
-05	PF	12/4/2018	11:45	X		X				X	2		1	1	1					X	X	X	X									X		
-06	INF	12/4/2018	11:50	X		X				X	3	2				1	X	X	X					X				X				X		
-07	EW-02	12/4/2018	13:45	X		X				X	3	1				1	X		X					X			X					X		
-08	MW-29	12/4/2018	13:25	X		X				X	3	1				1	X		X					X				X				X		
Total number of containers per analysis:										24	5	2	1	1	6																			Total No. of Containers: 39

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
HHA	12/4/18 14:20	[illegible]	12/4/18 14:20
Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
HHA	12/4/18 1632	FedEx	12/4/18 1632

- [ ] No. of containers correct
- [ ] Received in good condition
- [ ] Custody seals secure
- [ ] Conforms to COC document

0.1°C Temperature on receipt

Laboratory
Advanced Technology Laboratories
Attn: Rachelle Arada
3275 Walnut Ave
Signal Hill, CA 90755
(562) 989-4045

Send Results to:
Steve Netto & Ross Horton
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.6500
snetto@hargis.com
rhorton@hargis.com

Instructions
- ompletely and sign
- allpoint pen. Draw
- Indicate the
- Note applicable
- Consult project QA documents for specific instructions.

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 12/04/2018
Page 1 of 1

PROJECT: Raytheon Main GETS Lab Requested QC

TASK NO.: 532.15

Project Manager Steve Netto
QA Manager Ross Horton
Phone 858.455.6500
Fax 858.455.6533

Sampled By: Ross Horton

SAMPLE COLLECTION

LAB ID	SAMPLE ID	Date	Time	MATRIX: Groundwater	MATRIX: Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	PRESERVATION: Nitric Acid (HNO_3)	PRESERVATION:	PRESERVATION: Sulfuric Acid (H_2SO_4)	PRESERVATION: Ice	CONTAINERS: 40-ml VOA	CONTAINERS: 125 mL Poly	CONTAINERS: 250 mL Poly	CONTAINERS: 500 Ml Poly	CONTAINERS: 250 mL Glass	CONTAINERS: 1L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	ANALYSIS REQUESTED: Bromate by EPA 317	ANALYSIS REQUESTED: Bromide by EPA 300	ANALYSIS REQUESTED: Alkalinity by SM2320B	ANALYSIS REQUESTED: Total Organic Carbon by SM5310B	ANALYSIS REQUESTED: Total Suspended Solids by SM2540D	ANALYSIS REQUESTED: UV Absorption EPA 415.3 @254 nm	ANALYSIS REQUESTED: 1,4-Dioxane by EPA 8270C MOD	ANALYSIS REQUESTED: 1,4-Dioxane by EPA 8270 SIM	Expected Concentration Range (ppb) for VOAs: 0 - 10	10 - 100	100 - 1,000	>1,000		SPECIAL HANDLING: 24 hr TAT	48 Hour TAT	5 Day TAT	Level IV Data Validation Requested	MS/MSD Requested
1804591-03	CBT-QC	12/4/2018	1130	X						X						1									X	X							X		
-04	POX-QC	12/4/2018	1135	X		X			X	X	4					1	X				X				X	X							X		
-05	INF-QC	12/4/2018	1150	X						X						1								X			X						X		
-07	EW-02-QC	12/4/2018	1345	X						X						1								X			X						X		
Total number of containers per analysis:											4					4																			

Total No. of Containers: 8

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
H+A	12/4/18 14:22		12/4/18 1420
H&A	12/4/18 1632	Fedex	12/4/18 1632

6.4°C Temperature on receipt

- ✓ No. of containers correct
- ✓ Received in good condition
- ☐ Custody seals secure
- ✓ Conforms to COC document

Laboratory

Advanced Technology Laboratories
Attn: Rachelle Arada
3275 Walnut Ave
Signal Hill, CA 90755
(562) 989-4045

REMARKS

Samples are included per laboratory request for QC purposes. Do not include samples or results in final report.

Send Results to:
Steve Netto & Ross Horton
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.6500
snetto@hargis.com
rhorton@hargis.com

Instructions
completely and sign
illpoint pen. Draw
Indicate the
Note applicable
Consult project QA documents for specific instructions.

ADVANCED TECHNOLOGY LABORATORIES

December 12, 2018

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1804592

Client Reference : Raytheon Main GETS Quarterly Sample, 532.15

Enclosed are the results for sample(s) received on December 04, 2018 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.	Project Number :	Raytheon Main GETS Quarterly Sample,
9171 Towne Centre Drive, Suite 375	Report To :	Steve Netto
San Diego , CA 92122	Reported :	12/12/2018

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CEFF	1804592-01	Groundwater	12/04/18 11:20	12/04/18 16:32
POX	1804592-02	Groundwater	12/04/18 11:35	12/04/18 16:32
INF	1804592-03	Groundwater	12/04/18 11:50	12/04/18 16:32
EW-02	1804592-04	Groundwater	12/04/18 13:45	12/04/18 16:32
MW-29	1804592-05	Groundwater	12/04/18 13:25	12/04/18 16:32

CASE NARRATIVE

Sample Receiving/General Comments:

The following analytes lists were taken from sample containers:
Alkalinity - Hydroxide, Bicarbonate, Carbonate, and Total
Dissolved metals - Se, Fe, Mn, Ca, Na, Mg
Anions - Cl, SO4, NO3, NO2, PO4

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Client Sample ID CEFF

Lab ID: 1804592-01

Total Dissolved Solids (Residue, Filterable) by SM 2540C

Analyst: VQ

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**670**	10	1	B8L0333	12/06/2018	12/10/18 15:58	

Certificate of Analysis

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San Diego , CA 92122		Reported :	12/12/2018

Client Sample ID POX
Lab ID: 1804592-02

Anions Scan by Ion Chromatography EPA 300.0

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**120**	5.0	10	B8L0321	12/05/2018	12/05/18 13:53	
Nitrate, as N	**5.0**	0.50	5	B8L0321	12/05/2018	12/05/18 11:38	
Nitrite, as N	ND	0.50	5	B8L0321	12/05/2018	12/05/18 11:38	D6
ortho-Phosphate, as P	ND	0.25	5	B8L0321	12/05/2018	12/05/18 11:38	D6
Sulfate	**140**	5.0	5	B8L0321	12/05/2018	12/05/18 11:38	

UV Absorption by EPA 415.3

Analyst: BL

Analyte	Result (1/cm)	PQL (1/cm)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
UV Absorption	ND	0.01	1	B8L0144	12/05/2018	12/05/18 19:08	

Total Dissolved Solids (Residue, Filterable) by SM 2540C

Analyst: VQ

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**660**	10	1	B8L0333	12/06/2018	12/10/18 15:58	

Chemical Oxygen Demand by EPA 410.4

Analyst: DT

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	ND	5.0	1	B8L0152	12/06/2018	12/06/18 14:30	

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Client Sample ID INF

Lab ID: 1804592-03

Anions Scan by Ion Chromatography EPA 300.0

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**120**	5.0	10	B8L0321	12/05/2018	12/05/18 12:12	
Nitrate, as N	**5.0**	0.50	5	B8L0321	12/05/2018	12/05/18 12:00	
Nitrite, as N	ND	0.50	5	B8L0321	12/05/2018	12/05/18 12:00	D6
ortho-Phosphate, as P	ND	0.25	5	B8L0321	12/05/2018	12/05/18 12:00	D6
Sulfate	**140**	5.0	5	B8L0321	12/05/2018	12/05/18 12:00	

UV Absorption by EPA 415.3

Analyst: BL

Analyte	Result (1/cm)	PQL (1/cm)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
UV Absorption	ND	0.01	1	B8L0144	12/05/2018	12/05/18 19:08	

Alkalinity, Speciated by SM 2320B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Alkalinity, Bicarbonate (as CaCO3)	**220**	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Carbonate (as CaCO3)	ND	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Total (as CaCO3)	**220**	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	

Total Dissolved Solids (Residue, Filterable) by SM 2540C

Analyst: VQ

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**670**	10	1	B8L0333	12/06/2018	12/10/18 15:58	

Total Organic Carbon by SM 5310B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	1	B8L0329	12/10/2018	12/10/18 15:15	

Chemical Oxygen Demand by EPA 410.4

Analyst: DT

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes

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Client Sample ID INF

Lab ID: 1804592-03

Chemical Oxygen Demand by EPA 410.4

Analyst: DT

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	ND	5.0	1	B8L0152	12/06/2018	12/06/18 14:30	

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Selenium	ND	0.010	1	B8L0192	12/08/2018	12/10/18 13:57	

Dissolved Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Calcium	**91**	0.50	1	B8L0190	12/08/2018	12/11/18 13:35	
Iron	ND	0.50	1	B8L0190	12/08/2018	12/11/18 13:35	
Magnesium	**27**	0.10	1	B8L0190	12/08/2018	12/11/18 13:35	
Manganese	ND	0.50	1	B8L0190	12/08/2018	12/11/18 13:35	
Selenium	ND	0.010	1	B8L0190	12/08/2018	12/11/18 13:35	
Sodium	**75**	1.0	1	B8L0190	12/08/2018	12/11/18 13:35	

Certificate of Analysis

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San Diego , CA 92122	Reported : 12/12/2018

Client Sample ID EW-02

Lab ID: 1804592-04

Anions Scan by Ion Chromatography EPA 300.0

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**99**	5.0	10	B8L0321	12/05/2018	12/05/18 12:35	
Nitrate, as N	**4.4**	0.50	5	B8L0321	12/05/2018	12/05/18 12:23	
Nitrite, as N	ND	0.50	5	B8L0321	12/05/2018	12/05/18 12:23	D6
ortho-Phosphate, as P	ND	0.25	5	B8L0321	12/05/2018	12/05/18 12:23	D6
Sulfate	**150**	5.0	5	B8L0321	12/05/2018	12/05/18 12:23	

UV Absorption by EPA 415.3

Analyst: BL

Analyte	Result (1/cm)	PQL (1/cm)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
UV Absorption	ND	0.01	1	B8L0144	12/05/2018	12/05/18 19:08	

Alkalinity, Speciated by SM 2320B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Alkalinity, Bicarbonate (as CaCO3)	**210**	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Carbonate (as CaCO3)	ND	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Total (as CaCO3)	**210**	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	

Total Dissolved Solids (Residue, Filterable) by SM 2540C

Analyst: VQ

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**630**	10	1	B8L0333	12/06/2018	12/10/18 15:58	

Total Organic Carbon by SM 5310B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	1	B8L0329	12/10/2018	12/10/18 15:27	

Chemical Oxygen Demand by EPA 410.4

Analyst: DT

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes

Certificate of Analysis

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Client Sample ID EW-02

Lab ID: 1804592-04

Chemical Oxygen Demand by EPA 410.4

Analyst: DT

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	ND	5.0	1	B8L0152	12/06/2018	12/06/18 14:30	

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Selenium	ND	0.010	1	B8L0192	12/08/2018	12/10/18 14:03	

Dissolved Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Calcium	**80**	0.50	1	B8L0190	12/08/2018	12/11/18 13:38	
Iron	ND	0.50	1	B8L0190	12/08/2018	12/11/18 13:38	
Magnesium	**24**	0.10	1	B8L0190	12/08/2018	12/11/18 13:38	
Manganese	ND	0.50	1	B8L0190	12/08/2018	12/11/18 13:38	
Selenium	**0.017**	0.010	1	B8L0190	12/08/2018	12/11/18 13:38	
Sodium	**66**	1.0	1	B8L0190	12/08/2018	12/11/18 13:38	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Quarterly Sample,
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/12/2018

Client Sample ID MW-29
Lab ID: 1804592-05

Anions Scan by Ion Chromatography EPA 300.0

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**190**	10	20	B8L0321	12/05/2018	12/05/18 13:32	
Nitrate, as N	**7.3**	0.50	5	B8L0321	12/05/2018	12/05/18 13:20	
Nitrite, as N	ND	0.50	5	B8L0321	12/05/2018	12/05/18 13:20	D6
ortho-Phosphate, as P	ND	0.25	5	B8L0321	12/05/2018	12/05/18 13:20	D6
Sulfate	**140**	5.0	5	B8L0321	12/05/2018	12/05/18 13:20	

UV Absorption by EPA 415.3

Analyst: BL

Analyte	Result (1/cm)	PQL (1/cm)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
UV Absorption	ND	0.01	1	B8L0144	12/05/2018	12/05/18 19:08	

Alkalinity, Speciated by SM 2320B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Alkalinity, Bicarbonate (as CaCO3)	**260**	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Carbonate (as CaCO3)	ND	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	
Alkalinity, Total (as CaCO3)	**260**	5.0	1	B8L0318	12/11/2018	12/11/18 12:24	

Total Dissolved Solids (Residue, Filterable) by SM 2540C

Analyst: VQ

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**1300**	10	1	B8L0333	12/06/2018	12/10/18 15:58	

Total Organic Carbon by SM 5310B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	1	B8L0329	12/10/2018	12/10/18 15:40	

Chemical Oxygen Demand by EPA 410.4

Analyst: DT

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes

Certificate of Analysis

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San Diego , CA 92122		Reported :	12/12/2018

Client Sample ID MW-29

Lab ID: 1804592-05

Chemical Oxygen Demand by EPA 410.4

Analyst: DT

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	ND	5.0	1	B8L0152	12/06/2018	12/06/18 14:30	

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Selenium	ND	0.010	1	B8L0192	12/08/2018	12/10/18 14:05	

Dissolved Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Calcium	**110**	0.50	1	B8L0190	12/08/2018	12/11/18 13:40	
Iron	ND	0.50	1	B8L0190	12/08/2018	12/11/18 13:40	
Magnesium	**32**	0.10	1	B8L0190	12/08/2018	12/11/18 13:40	
Manganese	ND	0.50	1	B8L0190	12/08/2018	12/11/18 13:40	
Selenium	ND	0.010	1	B8L0190	12/08/2018	12/11/18 13:40	
Sodium	**94**	1.0	1	B8L0190	12/08/2018	12/11/18 13:40	

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QUALITY CONTROL SECTION

Alkalinity, Speciated by SM 2320B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0318 - No_Prep_WC1_W										
Blank (B8L0318-BLK1)					Prepared: 12/11/2018 Analyzed: 12/11/2018					
Alkalinity, Bicarbonate (as CaCO3)	ND	5.0	3.4							
Alkalinity, Carbonate (as CaCO3)	ND	5.0	3.4							
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	3.4							
Alkalinity, Total (as CaCO3)	ND	5.0	3.4							
LCS (B8L0318-BS1)					Prepared: 12/11/2018 Analyzed: 12/11/2018					
Alkalinity, Total (as CaCO3)	101.270	5.0	3.4	99.9580		101	80 - 120			
Matrix Spike (B8L0318-MS1)			**Source: 1804591-05**		Prepared: 12/11/2018 Analyzed: 12/11/2018					
Alkalinity, Total (as CaCO3)	321.730	5.0	3.4	99.9580	219.410	102	80 - 120			
Matrix Spike Dup (B8L0318-MSD1)			**Source: 1804591-05**		Prepared: 12/11/2018 Analyzed: 12/11/2018					
Alkalinity, Total (as CaCO3)	318.570	5.0	3.4	99.9580	219.410	99.2	80 - 120	0.987	20	

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Total Dissolved Solids (Residue, Filterable) by SM 2540C - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0333 - No_Prep_WC1_W										
Blank (B8L0333-BLK1)					Prepared: 12/6/2018 Analyzed: 12/10/2018					
Residue, Dissolved	ND	10	10							
LCS (B8L0333-BS1)					Prepared: 12/6/2018 Analyzed: 12/10/2018					
Residue, Dissolved	988.000	10	10	959.000		103	80 - 120			
Duplicate (B8L0333-DUP1)			**Source: 1804603-04**		Prepared: 12/6/2018 Analyzed: 12/10/2018					
Residue, Dissolved	2093.33	22	22		2117.78			1.16	10	

Certificate of Analysis

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Anions Scan by Ion Chromatography EPA 300.0 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0321 - No_Prep_IC1_W										
Blank (B8L0321-BLK1)					Prepared: 12/5/2018 Analyzed: 12/5/2018					
Chloride	ND	0.50	0.04							
Nitrate, as N	ND	0.10	0.04							
Nitrite, as N	ND	0.10	0.02							
ortho-Phosphate, as P	ND	0.05	0.04							
Sulfate	ND	1.0	0.05							
LCS (B8L0321-BS1)					Prepared: 12/5/2018 Analyzed: 12/5/2018					
Chloride	0.975500	0.50	0.04	1.00000		97.6	90 - 110			
Nitrate, as N	0.977700	0.10	0.04	1.00000		97.8	90 - 110			
Nitrite, as N	1.00590	0.10	0.02	1.00000		101	90 - 110			
ortho-Phosphate, as P	0.937100	0.05	0.04	1.00000		93.7	90 - 110			
Sulfate	2.00180	1.0	0.05	2.00000		100	90 - 110			
Duplicate (B8L0321-DUP1)			**Source: 1804592-02**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
Chloride	123.272	5.0	0.40		122.389			0.719	20	
Nitrate, as N	5.17200	1.0	0.43		5.15000			0.426	20	
Nitrite, as N	0.321000	1.0	0.24		0.322000			0.311	20	
ortho-Phosphate, as P	ND	0.50	0.44		ND				20	
Sulfate	143.484	10	0.51		142.248			0.865	20	
Matrix Spike (B8L0321-MS1)			**Source: 1804592-05**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
Chloride	12.2202			2.50000	9.59510	105	80 - 120			
Nitrate, as N	3.02780			2.50000	0.375800	106	80 - 120			
Nitrite, as N	2.68570			2.50000	0.00000	107	80 - 120			
ortho-Phosphate, as P	3.37800			2.50000	0.00000	135	80 - 120			M1
Sulfate	12.3738			5.00000	6.88330	110	80 - 120			
Matrix Spike Dup (B8L0321-MSD1)			**Source: 1804592-05**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
Chloride	12.3228			2.50000	9.59510	109	80 - 120	0.836	20	
Nitrate, as N	3.06250			2.50000	0.375800	107	80 - 120	1.14	20	
Nitrite, as N	2.73190			2.50000	0.00000	109	80 - 120	1.71	20	
ortho-Phosphate, as P	3.42220			2.50000	0.00000	137	80 - 120	1.30	20	M1
Sulfate	12.3901			5.00000	6.88330	110	80 - 120	0.132	20	

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UV Absorption by EPA 415.3 - Quality Control

Analyte	Result (1/cm)	PQL (1/cm)	MDL (1/cm)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0144 - No_Prep_II_W										
Duplicate (B8L0144-DUP1)			**Source: 1804591-05**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
UV Absorption	ND	0.01	0.01		ND			NR	20	
Duplicate (B8L0144-DUP2)			**Source: 1804592-02**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
UV Absorption	ND	0.01	0.01		ND			NR	20	
Duplicate (B8L0144-DUP3)			**Source: 1804592-03**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
UV Absorption	ND	0.01	0.01		ND			NR	20	
Duplicate (B8L0144-DUP4)			**Source: 1804592-04**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
UV Absorption	ND	0.01	0.01		ND			NR	20	
Duplicate (B8L0144-DUP5)			**Source: 1804592-05**		Prepared: 12/5/2018 Analyzed: 12/5/2018					
UV Absorption	ND	0.01	0.01		ND			NR	20	

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San Diego , CA 92122	Reported : 12/12/2018

Total Organic Carbon by SM 5310B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0329 - No_Prep_II_W										
Blank (B8L0329-BLK1)					Prepared: 12/10/2018 Analyzed: 12/10/2018					
Organic Carbon, Total	ND	3.0	1.8							
LCS (B8L0329-BS1)					Prepared: 12/10/2018 Analyzed: 12/10/2018					
Organic Carbon, Total	20.1400	3.0	1.8	20.0000		101	80 - 120			
LCS Dup (B8L0329-BSD1)					Prepared: 12/10/2018 Analyzed: 12/10/2018					
Organic Carbon, Total	20.9800	3.0	1.8	20.0000		105	80 - 120	4.09	20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Quarterly Sample,
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/12/2018

Chemical Oxygen Demand by EPA 410.4 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0152 - Prep_WC1_W										
Blank (B8L0152-BLK1)					Prepared: 12/6/2018 Analyzed: 12/6/2018					
Chemical Oxygen Demand	ND	5.0	4.0							
LCS (B8L0152-BS1)					Prepared: 12/6/2018 Analyzed: 12/6/2018					
Chemical Oxygen Demand	508.257	5.0	4.0	501.500		101	80 - 120			
Matrix Spike (B8L0152-MS1)			**Source: 1804592-02**		Prepared: 12/6/2018 Analyzed: 12/6/2018					
Chemical Oxygen Demand	484.869	5.0	4.0	501.500	ND	96.7	80 - 120			
Matrix Spike Dup (B8L0152-MSD1)			**Source: 1804592-02**		Prepared: 12/6/2018 Analyzed: 12/6/2018					
Chemical Oxygen Demand	500.099	5.0	4.0	501.500	ND	99.7	80 - 120	3.09	20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Quarterly Sample,
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/12/2018

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0192 - EPA 3010A_W										
Blank (B8L0192-BLK1)					Prepared: 12/8/2018 Analyzed: 12/10/2018					
Selenium	ND	0.010	0.0093							
LCS (B8L0192-BS1)					Prepared: 12/8/2018 Analyzed: 12/10/2018					
Selenium	0.838297	0.010	0.0093	1.00000		83.8	80 - 120			
Matrix Spike (B8L0192-MS1)			**Source: 1804592-03**		Prepared: 12/8/2018 Analyzed: 12/10/2018					
Selenium	2.23152	0.010	0.0093	2.50000	ND	89.3	55 - 136			
Matrix Spike Dup (B8L0192-MSD1)			**Source: 1804592-03**		Prepared: 12/8/2018 Analyzed: 12/10/2018					
Selenium	2.21926	0.010	0.0093	2.50000	ND	88.8	55 - 136	0.551	20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Quarterly Sample,
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/12/2018

Dissolved Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0190 - EPA 3010A_W										
Blank (B8L0190-BLK1)						Prepared: 12/8/2018 Analyzed: 12/11/2018				
Calcium	ND	0.50	0.12							
Iron	ND	0.50	0.011							
Magnesium	ND	0.10	0.021							
Manganese	ND	0.50	0.0046							
Selenium	ND	0.010	0.0093							
Sodium	ND	1.0	0.12							
LCS (B8L0190-BS1)						Prepared: 12/8/2018 Analyzed: 12/11/2018				
Calcium	20.2589	0.50	0.12	20.0000		101	80 - 120			
Iron	20.3410	0.50	0.011	20.0000		102	80 - 120			
Magnesium	20.3897	0.10	0.021	20.0000		102	80 - 120			
Manganese	9.91794	0.50	0.0046	10.0000		99.2	80 - 120			
Selenium	0.921237	0.010	0.0093	1.00000		92.1	80 - 120			
Sodium	21.3836	1.0	0.12	20.0000		107	80 - 120			
Matrix Spike (B8L0190-MS1)			**Source: 1804592-03**			Prepared: 12/8/2018 Analyzed: 12/11/2018				
Calcium	106.390	0.50	0.12	20.0000	91.4452	74.7	0 - 244			
Iron	17.2108	0.50	0.011	20.0000	0.017615	86.0	34 - 165			
Magnesium	43.5989	0.10	0.021	20.0000	27.0787	82.6	0 - 255			
Manganese	9.63934	0.50	0.0046	10.0000	0.012294	96.3	73 - 119			
Selenium	2.21785	0.010	0.0093	2.50000	ND	88.7	55 - 136			
Sodium	93.3949	1.0	0.12	19.9000	75.0826	92.0	0 - 366			
Matrix Spike Dup (B8L0190-MSD1)			**Source: 1804592-03**			Prepared: 12/8/2018 Analyzed: 12/11/2018				
Calcium	115.407	0.50	0.12	20.0000	91.4452	120	0 - 244	8.13	20	
Iron	18.7926	0.50	0.011	20.0000	0.017615	93.9	34 - 165	8.79	20	
Magnesium	47.5290	0.10	0.021	20.0000	27.0787	102	0 - 255	8.63	20	
Manganese	9.93123	0.50	0.0046	10.0000	0.012294	99.2	73 - 119	2.98	20	
Selenium	2.24878	0.010	0.0093	2.50000	ND	90.0	55 - 136	1.38	20	
Sodium	102.121	1.0	0.12	19.9000	75.0826	136	0 - 366	8.93	20	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Quarterly Sample,
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	12/12/2018

Notes and Definitions

M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
D6	Sample required dilution due to high concentration of target analyte.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

HARGIS+ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 12/04/2018
Page 1 of 1

PROJECT: Raytheon Main GETS Quarterly Sample

TASK NO.: 532.15

Project Manager Steve Netto
QA Manager Ross Horton
Phone 858.455.6500
Fax 858.455.6533

Sampled By: Ross Horton

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Groundwater	Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Ice	CONTAINERS: 40-ml VOA	125 mL Poly	250 mL Poly	500 Ml Poly	250 mL Glass	ANALYSIS REQUESTED: Alkalinity by SM2320B	Anions by EPA 300	COD by EPA 410.4	Dissolved Metals by EPA 6010B	Total Dissolved Solids by SM2540C	Total Organic Carbon by SM5310B	Total Se by EPA 6010B	UV Absorption EPA 415.3 @254 nm	Expected Concentration Range (ppb) for VOAs: 0 - 10	10 - 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 Hour TAT	5 Day TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
R04592-01	CEFF	12/4/2018	11:20	X					X		1								X										X			
-02	POX	12/4/2018	11:35	X				X	X		3			1		X	X		X			X							X			Lab to filter dissolved
-03	INF	12/4/2018	11:50	X			X		X	X	3	1	2	1	X	X	X	X	X	X	X	X							X			metals, and anions
-04	EW-02	12/4/2018	13:45	X			X		X	X	3	1	2	1	X	X	X	X	X	X	X	X							X			
-05	MW-29	12/4/2018	13:25	X			X		X	X	3	1	2	1	X	X	X	X	X	X	X	X							X			
Total number of containers per analysis:										9	13	3	6	4																		Total No. of Containers: 35

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
H+A	12/4/18 14:20	H+A	12/4/18 14:20
Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
H+A	12/4/18 1632		12/4/18 1632

- ✓ No. of containers correct
- ✓ Received in good condition
- Custody seals secure
- ✓ Conforms to COC document

0.2, 0.0 Temperature on receipt

Laboratory
Advanced Technology Laboratories
Attn: Rachelle Arada
3275 Walnut Ave
Signal Hill, CA 90755
(562) 989-4045

Send Results to:
Steve Netto & Ross Horton
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.6500
snetto@hargis.com
rhorton@hargis.com

Instructions
1. Fill out form completely and sign only after verified for completeness
2. Complete in ballpoint pen. Draw one line through error, initial and date correction
3. Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

ADVANCED TECHNOLOGY LABORATORIES

December 28, 2018

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

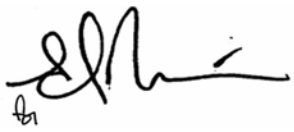
Re: ATL Work Order Number : 1804897

Client Reference : Raytheon Main GETS Mid Month Sample, 532.15

Enclosed are the results for sample(s) received on December 20, 2018 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	12/28/2018

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-121918	1804897-01	Lab prepared water	12/19/18 8:00	12/20/18 13:25
CEFF	1804897-02	Groundwater	12/19/18 10:10	12/20/18 13:25
CBT	1804897-03	Groundwater	12/19/18 10:15	12/20/18 13:25
POX	1804897-04	Groundwater	12/19/18 10:20	12/20/18 13:25
INF	1804897-05	Groundwater	12/19/18 10:25	12/20/18 13:25
EW-02	1804897-06	Groundwater	12/19/18 11:10	12/20/18 13:25
MW-29	1804897-07	Groundwater	12/19/18 11:30	12/20/18 13:25

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID TB-121918

Lab ID: 1804897-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,1,1-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,1,2-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,1-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,1-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,1-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,2,3-Trichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,2-Dibromoethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,2-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,2-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,3-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,3-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
1,4-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
2,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
2-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
4-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
4-Isopropyltoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Benzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Bromobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Bromodichloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Bromoform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Bromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Carbon tetrachloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Chlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Chloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Chloroform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Chloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Dibromochloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID TB-121918

Lab ID: 1804897-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Dichlorodifluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Ethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Hexachlorobutadiene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Isopropylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
m,p-Xylene	ND	1.0	1	B8L0763	12/27/2018	12/27/18 11:57	
Methylene chloride	ND	1.0	1	B8L0763	12/27/2018	12/27/18 11:57	
n-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
n-Propylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Naphthalene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
o-Xylene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
sec-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Styrene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
tert-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Tetrachloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Toluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Trichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Trichlorofluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Vinyl chloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 11:57	
Surrogate: 1,2-Dichloroethane-d4	*102 %*	*57 - 152*		B8L0763	12/27/2018	*12/27/18 11:57*	
Surrogate: 4-Bromofluorobenzene	*99.6 %*	*62 - 134*		B8L0763	12/27/2018	*12/27/18 11:57*	
Surrogate: Dibromofluoromethane	*96.0 %*	*56 - 167*		B8L0763	12/27/2018	*12/27/18 11:57*	
Surrogate: Toluene-d8	*105 %*	*33 - 170*		B8L0763	12/27/2018	*12/27/18 11:57*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID CEFF

Lab ID: 1804897-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,1,1-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,1,2-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,1-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,1-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,1-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,2,3-Trichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,2-Dibromoethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,2-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,2-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,3-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,3-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
1,4-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
2,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
2-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
4-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
4-Isopropyltoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Benzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Bromobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Bromodichloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Bromoform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Bromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Carbon tetrachloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Chlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Chloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Chloroform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Chloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Dibromochloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID CEFF

Lab ID: 1804897-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Dichlorodifluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Ethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Hexachlorobutadiene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Isopropylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
m,p-Xylene	ND	1.0	1	B8L0763	12/27/2018	12/27/18 12:22	
Methylene chloride	ND	1.0	1	B8L0763	12/27/2018	12/27/18 12:22	
n-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
n-Propylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Naphthalene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
o-Xylene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
sec-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Styrene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
tert-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Tetrachloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Toluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Trichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Trichlorofluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Vinyl chloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:22	
Surrogate: 1,2-Dichloroethane-d4	*102 %*	*57 - 152*		B8L0763	12/27/2018	*12/27/18 12:22*	
Surrogate: 4-Bromofluorobenzene	*98.3 %*	*62 - 134*		B8L0763	12/27/2018	*12/27/18 12:22*	
Surrogate: Dibromofluoromethane	*96.4 %*	*56 - 167*		B8L0763	12/27/2018	*12/27/18 12:22*	
Surrogate: Toluene-d8	*102 %*	*33 - 170*		B8L0763	12/27/2018	*12/27/18 12:22*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID CEFF

Lab ID: 1804897-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B8L0735	12/26/2018	12/26/18 13:44	
Surrogate: 1,2-Dichlorobenzene-d4	*70.7 %*		*23 - 118*		B8L0735	12/26/2018	*12/26/18 13:44*	
Surrogate: 2-Fluorobiphenyl	*95.4 %*		*29 - 118*		B8L0735	12/26/2018	*12/26/18 13:44*	
Surrogate: 4-Terphenyl-d14	*63.6 %*		*33 - 121*		B8L0735	12/26/2018	*12/26/18 13:44*	
Surrogate: Nitrobenzene-d5	*67.4 %*		*7 - 120*		B8L0735	12/26/2018	*12/26/18 13:44*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID CBT

Lab ID: 1804897-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,1,1-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,1,2-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,1-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,1-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,1-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,2,3-Trichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,2-Dibromoethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,2-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,2-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,3-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,3-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
1,4-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
2,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
2-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
4-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
4-Isopropyltoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Benzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Bromobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Bromodichloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Bromoform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Bromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Carbon tetrachloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Chlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Chloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Chloroform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Chloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Dibromochloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID CBT

Lab ID: 1804897-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Dichlorodifluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Ethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Hexachlorobutadiene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Isopropylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
m,p-Xylene	ND	1.0	1	B8L0763	12/27/2018	12/27/18 12:46	
Methylene chloride	ND	1.0	1	B8L0763	12/27/2018	12/27/18 12:46	
n-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
n-Propylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Naphthalene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
o-Xylene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
sec-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Styrene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
tert-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Tetrachloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Toluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Trichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Trichlorofluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Vinyl chloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 12:46	
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*57 - 152*		B8L0763	12/27/2018	*12/27/18 12:46*	
Surrogate: 4-Bromofluorobenzene	*99.6 %*	*62 - 134*		B8L0763	12/27/2018	*12/27/18 12:46*	
Surrogate: Dibromofluoromethane	*94.6 %*	*56 - 167*		B8L0763	12/27/2018	*12/27/18 12:46*	
Surrogate: Toluene-d8	*105 %*	*33 - 170*		B8L0763	12/27/2018	*12/27/18 12:46*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID CBT

Lab ID: 1804897-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B8L0735	12/26/2018	12/26/18 14:11	
Surrogate: 1,2-Dichlorobenzene-d4	*73.1 %*		*23 - 118*		B8L0735	12/26/2018	*12/26/18 14:11*	
Surrogate: 2-Fluorobiphenyl	*103 %*		*29 - 118*		B8L0735	12/26/2018	*12/26/18 14:11*	
Surrogate: 4-Terphenyl-d14	*82.0 %*		*33 - 121*		B8L0735	12/26/2018	*12/26/18 14:11*	
Surrogate: Nitrobenzene-d5	*71.5 %*		*7 - 120*		B8L0735	12/26/2018	*12/26/18 14:11*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID POX

Lab ID: 1804897-04

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,1,1-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,1,2-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,1-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,1-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,1-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,2,3-Trichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,2-Dibromoethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,2-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,2-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,3-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,3-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
1,4-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
2,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
2-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
4-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
4-Isopropyltoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Benzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Bromobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Bromodichloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Bromoform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Bromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Carbon tetrachloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Chlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Chloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Chloroform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Chloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Dibromochloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID POX

Lab ID: 1804897-04

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Dichlorodifluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Ethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Hexachlorobutadiene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Isopropylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
m,p-Xylene	ND	1.0	1	B8L0763	12/27/2018	12/27/18 14:49	
Methylene chloride	ND	1.0	1	B8L0763	12/27/2018	12/27/18 14:49	
n-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
n-Propylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Naphthalene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
o-Xylene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
sec-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Styrene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
tert-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Tetrachloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Toluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Trichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Trichlorofluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Vinyl chloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 14:49	
Surrogate: 1,2-Dichloroethane-d4	*101 %*	*57 - 152*		B8L0763	12/27/2018	*12/27/18 14:49*	
Surrogate: 4-Bromofluorobenzene	*98.8 %*	*62 - 134*		B8L0763	12/27/2018	*12/27/18 14:49*	
Surrogate: Dibromofluoromethane	*93.0 %*	*56 - 167*		B8L0763	12/27/2018	*12/27/18 14:49*	
Surrogate: Toluene-d8	*109 %*	*33 - 170*		B8L0763	12/27/2018	*12/27/18 14:49*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID POX

Lab ID: 1804897-04

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B8L0735	12/26/2018	12/26/18 14:38	
Surrogate: 1,2-Dichlorobenzene-d4	*79.3 %*		*23 - 118*		B8L0735	12/26/2018	*12/26/18 14:38*	
Surrogate: 2-Fluorobiphenyl	*107 %*		*29 - 118*		B8L0735	12/26/2018	*12/26/18 14:38*	
Surrogate: 4-Terphenyl-d14	*82.9 %*		*33 - 121*		B8L0735	12/26/2018	*12/26/18 14:38*	
Surrogate: Nitrobenzene-d5	*76.7 %*		*7 - 120*		B8L0735	12/26/2018	*12/26/18 14:38*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID INF

Lab ID: 1804897-05

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,1,1-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,1,2-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,1-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,1-Dichloroethene	**40**	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,1-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,2,3-Trichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,2-Dibromoethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,2-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,2-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,3-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,3-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
1,4-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
2,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
2-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
4-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
4-Isopropyltoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Benzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Bromobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Bromodichloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Bromoform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Bromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Carbon tetrachloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Chlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Chloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Chloroform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Chloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Dibromochloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID INF

Lab ID: 1804897-05

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Dichlorodifluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Ethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Hexachlorobutadiene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Isopropylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
m,p-Xylene	ND	1.0	1	B8L0763	12/27/2018	12/27/18 15:13	
Methylene chloride	ND	1.0	1	B8L0763	12/27/2018	12/27/18 15:13	
n-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
n-Propylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Naphthalene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
o-Xylene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
sec-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Styrene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
tert-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Tetrachloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Toluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Trichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Trichlorofluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Vinyl chloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:13	
Surrogate: 1,2-Dichloroethane-d4	*101 %*	*57 - 152*		B8L0763	12/27/2018	*12/27/18 15:13*	
Surrogate: 4-Bromofluorobenzene	*101 %*	*62 - 134*		B8L0763	12/27/2018	*12/27/18 15:13*	
Surrogate: Dibromofluoromethane	*94.1 %*	*56 - 167*		B8L0763	12/27/2018	*12/27/18 15:13*	
Surrogate: Toluene-d8	*107 %*	*33 - 170*		B8L0763	12/27/2018	*12/27/18 15:13*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID INF

Lab ID: 1804897-05

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**18**	2.0	1	B8L0714	12/24/2018	12/24/18 16:17	
Surrogate: 1,2-Dichlorobenzene-d4	*64.2 %*		*34 - 188*		B8L0714	12/24/2018	*12/24/18 16:17*	
Surrogate: 2-Fluorobiphenyl	*72.7 %*		*39 - 108*		B8L0714	12/24/2018	*12/24/18 16:17*	
Surrogate: 4-Terphenyl-d14	*81.1 %*		*71 - 131*		B8L0714	12/24/2018	*12/24/18 16:17*	
Surrogate: Nitrobenzene-d5	*82.3 %*		*32 - 106*		B8L0714	12/24/2018	*12/24/18 16:17*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID EW-02

Lab ID: 1804897-06

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,1,1-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,1,2-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,1-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,1-Dichloroethene	**11**	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,1-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,2,3-Trichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,2-Dibromoethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,2-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,2-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,3-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,3-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
1,4-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
2,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
2-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
4-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
4-Isopropyltoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Benzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Bromobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Bromodichloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Bromoform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Bromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Carbon tetrachloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Chlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Chloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Chloroform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Chloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Dibromochloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID EW-02

Lab ID: 1804897-06

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Dichlorodifluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Ethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Hexachlorobutadiene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Isopropylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
m,p-Xylene	ND	1.0	1	B8L0763	12/27/2018	12/27/18 15:37	
Methylene chloride	ND	1.0	1	B8L0763	12/27/2018	12/27/18 15:37	
n-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
n-Propylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Naphthalene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
o-Xylene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
sec-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Styrene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
tert-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Tetrachloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Toluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Trichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Trichlorofluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Vinyl chloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 15:37	
Surrogate: 1,2-Dichloroethane-d4	*104 %*	*57 - 152*		B8L0763	12/27/2018	*12/27/18 15:37*	
Surrogate: 4-Bromofluorobenzene	*100 %*	*62 - 134*		B8L0763	12/27/2018	*12/27/18 15:37*	
Surrogate: Dibromofluoromethane	*96.1 %*	*56 - 167*		B8L0763	12/27/2018	*12/27/18 15:37*	
Surrogate: Toluene-d8	*109 %*	*33 - 170*		B8L0763	12/27/2018	*12/27/18 15:37*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID EW-02

Lab ID: 1804897-06

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**3.5**	2.0	1	B8L0714	12/24/2018	12/24/18 16:43	
Surrogate: 1,2-Dichlorobenzene-d4	*57.3 %*		*34 - 188*		B8L0714	12/24/2018	*12/24/18 16:43*	
Surrogate: 2-Fluorobiphenyl	*63.8 %*		*39 - 108*		B8L0714	12/24/2018	*12/24/18 16:43*	
Surrogate: 4-Terphenyl-d14	*72.2 %*		*71 - 131*		B8L0714	12/24/2018	*12/24/18 16:43*	
Surrogate: Nitrobenzene-d5	*74.5 %*		*32 - 106*		B8L0714	12/24/2018	*12/24/18 16:43*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID MW-29

Lab ID: 1804897-07

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,1,1-Trichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,1,2-Trichloroethane	**0.58**	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,1-Dichloroethane	**1.6**	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,1-Dichloroethene	**130**	5.0	10	B8L0763	12/27/2018	12/27/18 16:26	
1,1-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,2,3-Trichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,2,3-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,2,4-Trichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,2,4-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,2-Dibromoethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,2-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,2-Dichloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,3,5-Trimethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,3-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,3-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
1,4-Dichlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
2,2-Dichloropropane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
2-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
4-Chlorotoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
4-Isopropyltoluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Benzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Bromobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Bromodichloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Bromoform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Bromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Carbon tetrachloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Chlorobenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Chloroethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Chloroform	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Chloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
cis-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
cis-1,3-Dichloropropene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Dibromochloromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

Client Sample ID MW-29

Lab ID: 1804897-07

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Dichlorodifluoromethane	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Ethylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Hexachlorobutadiene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Isopropylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
m,p-Xylene	ND	1.0	1	B8L0763	12/27/2018	12/27/18 16:01	
Methylene chloride	ND	1.0	1	B8L0763	12/27/2018	12/27/18 16:01	
n-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
n-Propylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Naphthalene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
o-Xylene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
sec-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Styrene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
tert-Butylbenzene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Tetrachloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Toluene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
trans-1,2-Dichloroethene	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Trichloroethene	**1.8**	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Trichlorofluoromethane	**0.78**	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Vinyl chloride	ND	0.50	1	B8L0763	12/27/2018	12/27/18 16:01	
Surrogate: 1,2-Dichloroethane-d4	*102 %*	*57 - 152*		B8L0763	12/27/2018	*12/27/18 16:26*	
Surrogate: 1,2-Dichloroethane-d4	*108 %*	*57 - 152*		B8L0763	12/27/2018	*12/27/18 16:01*	
Surrogate: 4-Bromofluorobenzene	*98.6 %*	*62 - 134*		B8L0763	12/27/2018	*12/27/18 16:26*	
Surrogate: 4-Bromofluorobenzene	*98.8 %*	*62 - 134*		B8L0763	12/27/2018	*12/27/18 16:01*	
Surrogate: Dibromofluoromethane	*94.6 %*	*56 - 167*		B8L0763	12/27/2018	*12/27/18 16:26*	
Surrogate: Dibromofluoromethane	*99.8 %*	*56 - 167*		B8L0763	12/27/2018	*12/27/18 16:01*	
Surrogate: Toluene-d8	*104 %*	*33 - 170*		B8L0763	12/27/2018	*12/27/18 16:01*	
Surrogate: Toluene-d8	*105 %*	*33 - 170*		B8L0763	12/27/2018	*12/27/18 16:26*	

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Client Sample ID MW-29

Lab ID: 1804897-07

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**91**	2.0	1	B8L0714	12/24/2018	12/26/18 12:12	
Surrogate: 1,2-Dichlorobenzene-d4	*63.6 %*		*34 - 188*		B8L0714	12/24/2018	*12/26/18 12:12*	
Surrogate: 2-Fluorobiphenyl	*67.5 %*		*39 - 108*		B8L0714	12/24/2018	*12/26/18 12:12*	
Surrogate: 4-Terphenyl-d14	*72.9 %*		*71 - 131*		B8L0714	12/24/2018	*12/26/18 12:12*	
Surrogate: Nitrobenzene-d5	*81.7 %*		*32 - 106*		B8L0714	12/24/2018	*12/26/18 12:12*	

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QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0763 - MSVOA_W										
Blank (B8L0763-BLK1)					Prepared: 12/27/2018 Analyzed: 12/27/2018					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0763 - MSVOA_W (continued)										
Blank (B8L0763-BLK1) - Continued					Prepared: 12/27/2018 Analyzed: 12/27/2018					
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*24.55*			*25.0000*		*98.2*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*25.21*			*25.0000*		*101*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.07*			*25.0000*		*92.3*	*56 - 167*			
Surrogate: Toluene-d8	*26.46*			*25.0000*		*106*	*33 - 170*			
LCS (B8L0763-BS1)					Prepared: 12/27/2018 Analyzed: 12/27/2018					
1,1,1,2-Tetrachloroethane	18.9900	0.50	0.11	20.0000		95.0	80 - 137			
1,1,1-Trichloroethane	17.4900	0.50	0.18	20.0000		87.4	75 - 148			
1,1,2,2-Tetrachloroethane	16.9600	0.50	0.17	20.0000		84.8	64 - 118			
1,1,2-Trichloroethane	18.1600	0.50	0.12	20.0000		90.8	77 - 113			
1,1-Dichloroethane	19.2300	0.50	0.16	20.0000		96.2	72 - 131			
1,1-Dichloroethene	18.4200	0.50	0.09	20.0000		92.1	75 - 132			
1,1-Dichloropropene	19.4200	0.50	0.21	20.0000		97.1	84 - 141			
1,2,3-Trichloropropane	17.3000	0.50	0.16	20.0000		86.5	65 - 111			
1,2,3-Trichlorobenzene	19.2000	0.50	0.12	20.0000		96.0	79 - 117			
1,2,4-Trichlorobenzene	19.8400	0.50	0.12	20.0000		99.2	78 - 121			
1,2,4-Trimethylbenzene	21.5300	0.50	0.08	20.0000		108	83 - 125			
1,2-Dibromo-3-chloropropane	15.7700	0.50	0.24	20.0000		78.8	54 - 116			
1,2-Dibromoethane	17.7300	0.50	0.11	20.0000		88.6	79 - 118			
1,2-Dichlorobenzene	19.6200	0.50	0.09	20.0000		98.1	82 - 115			
1,2-Dichloroethane	17.7900	0.50	0.19	20.0000		89.0	76 - 115			
1,2-Dichloropropane	18.0500	0.50	0.36	20.0000		90.2	74 - 113			
1,3,5-Trimethylbenzene	21.6100	0.50	0.05	20.0000		108	83 - 126			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0763 - MSVOA_W (continued)										
LCS (B8L0763-BS1) - Continued					Prepared: 12/27/2018 Analyzed: 12/27/2018					
1,3-Dichlorobenzene	20.3300	0.50	0.10	20.0000		102	84 - 118			
1,3-Dichloropropane	17.7000	0.50	0.07	20.0000		88.5	72 - 116			
1,4-Dichlorobenzene	19.5100	0.50	0.07	20.0000		97.6	83 - 112			
2,2-Dichloropropane	19.4100	0.50	0.16	20.0000		97.0	72 - 150			
2-Chlorotoluene	20.8400	0.50	0.08	20.0000		104	82 - 120			
4-Chlorotoluene	21.0000	0.50	0.08	20.0000		105	81 - 121			
4-Isopropyltoluene	21.6600	0.50	0.06	20.0000		108	86 - 124			
Benzene	39.3700	0.50	0.03	40.0000		98.4	81 - 118			
Bromobenzene	19.2400	0.50	0.09	20.0000		96.2	82 - 117			
Bromodichloromethane	17.8600	0.50	0.14	20.0000		89.3	80 - 122			
Bromoform	18.4000	0.50	0.13	20.0000		92.0	53 - 145			
Bromomethane	30.2400	0.50	0.42	20.0000		151	30 - 204			
Carbon tetrachloride	18.6300	0.50	0.19	20.0000		93.2	77 - 157			
Chlorobenzene	19.7400	0.50	0.07	20.0000		98.7	86 - 113			
Chloroethane	24.6400	0.50	0.40	20.0000		123	70 - 160			
Chloroform	17.5900	0.50	0.17	20.0000		88.0	66 - 136			
Chloromethane	21.8200	0.50	0.08	20.0000		109	52 - 138			
cis-1,2-Dichloroethene	18.4400	0.50	0.13	20.0000		92.2	71 - 128			
cis-1,3-Dichloropropene	19.7900	0.50	0.05	20.0000		99.0	71 - 123			
Dibromochloromethane	17.6900	0.50	0.14	20.0000		88.4	78 - 140			
Dibromomethane	17.2400	0.50	0.10	20.0000		86.2	78 - 109			
Dichlorodifluoromethane	24.1400	0.50	0.10	20.0000		121	64 - 144			
Ethylbenzene	41.1500	0.50	0.07	40.0000		103	90 - 116			
Hexachlorobutadiene	20.5500	0.50	0.14	20.0000		103	81 - 129			
Isopropylbenzene	22.6200	0.50	0.05	20.0000		113	83 - 129			
m,p-Xylene	43.5600	1.0	0.08	40.0000		109	88 - 124			
Methylene chloride	21.3800	1.0	0.46	20.0000		107	76 - 137			
n-Butylbenzene	21.4800	0.50	0.05	20.0000		107	83 - 129			
n-Propylbenzene	21.2400	0.50	0.07	20.0000		106	85 - 124			
Naphthalene	16.0100	0.50	0.15	20.0000		80.0	67 - 113			
o-Xylene	45.4200	0.50	0.05	40.0000		114	82 - 129			
sec-Butylbenzene	21.2800	0.50	0.04	20.0000		106	86 - 127			
Styrene	21.9700	0.50	0.06	20.0000		110	83 - 122			
tert-Butylbenzene	21.3800	0.50	0.06	20.0000		107	84 - 130			
Tetrachloroethene	19.7800	0.50	0.07	20.0000		98.9	87 - 123			
Toluene	43.3400	0.50	0.07	40.0000		108	84 - 115			
trans-1,2-Dichloroethene	17.9500	0.50	0.11	20.0000		89.8	60 - 148			
Trichloroethene	17.9700	0.50	0.05	20.0000		89.8	79 - 129			
Trichlorofluoromethane	17.8300	0.50	0.14	20.0000		89.2	68 - 162			
Vinyl chloride	22.7800	0.50	0.05	20.0000		114	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*21.72*			*25.0000*		*86.9*	*57 - 152*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0763 - MSVOA_W (continued)										
LCS (B8L0763-BS1) - Continued					Prepared: 12/27/2018 Analyzed: 12/27/2018					
Surrogate: 4-Bromofluorobenzene	*26.83*			*25.0000*		*107*	*62 - 134*			
Surrogate: Dibromofluoromethan	*22.23*			*25.0000*		*88.9*	*56 - 167*			
Surrogate: Toluene-d8	*27.24*			*25.0000*		*109*	*33 - 170*			
LCS Dup (B8L0763-BSD1)					Prepared: 12/27/2018 Analyzed: 12/27/2018					
1,1,1,2-Tetrachloroethane	18.4300	0.50	0.11	20.0000		92.2	80 - 137	2.99	20	
1,1,1-Trichloroethane	16.5200	0.50	0.18	20.0000		82.6	75 - 148	5.70	20	
1,1,2,2-Tetrachloroethane	18.5200	0.50	0.17	20.0000		92.6	64 - 118	8.79	20	
1,1,2-Trichloroethane	18.5700	0.50	0.12	20.0000		92.8	77 - 113	2.23	20	
1,1-Dichloroethane	17.4500	0.50	0.16	20.0000		87.2	72 - 131	9.71	20	
1,1-Dichloroethene	16.6400	0.50	0.09	20.0000		83.2	75 - 132	10.2	20	
1,1-Dichloropropene	18.6000	0.50	0.21	20.0000		93.0	84 - 141	4.31	20	
1,2,3-Trichloropropane	18.6600	0.50	0.16	20.0000		93.3	65 - 111	7.56	20	
1,2,3-Trichlorobenzene	19.7500	0.50	0.12	20.0000		98.8	79 - 117	2.82	20	
1,2,4-Trichlorobenzene	19.8500	0.50	0.12	20.0000		99.2	78 - 121	0.0504	20	
1,2,4-Trimethylbenzene	20.5400	0.50	0.08	20.0000		103	83 - 125	4.71	20	
1,2-Dibromo-3-chloropropane	18.3700	0.50	0.24	20.0000		91.8	54 - 116	15.2	20	
1,2-Dibromoethane	18.9900	0.50	0.11	20.0000		95.0	79 - 118	6.86	20	
1,2-Dichlorobenzene	19.6100	0.50	0.09	20.0000		98.0	82 - 115	0.0510	20	
1,2-Dichloroethane	17.3300	0.50	0.19	20.0000		86.6	76 - 115	2.62	20	
1,2-Dichloropropane	17.7200	0.50	0.36	20.0000		88.6	74 - 113	1.85	20	
1,3,5-Trimethylbenzene	20.5300	0.50	0.05	20.0000		103	83 - 126	5.13	20	
1,3-Dichlorobenzene	19.4600	0.50	0.10	20.0000		97.3	84 - 118	4.37	20	
1,3-Dichloropropane	18.3500	0.50	0.07	20.0000		91.8	72 - 116	3.61	20	
1,4-Dichlorobenzene	19.0400	0.50	0.07	20.0000		95.2	83 - 112	2.44	20	
2,2-Dichloropropane	17.8600	0.50	0.16	20.0000		89.3	72 - 150	8.32	20	
2-Chlorotoluene	19.8200	0.50	0.08	20.0000		99.1	82 - 120	5.02	20	
4-Chlorotoluene	20.0600	0.50	0.08	20.0000		100	81 - 121	4.58	20	
4-Isopropyltoluene	20.4600	0.50	0.06	20.0000		102	86 - 124	5.70	20	
Benzene	38.0500	0.50	0.03	40.0000		95.1	81 - 118	3.41	20	
Bromobenzene	18.9500	0.50	0.09	20.0000		94.8	82 - 117	1.52	20	
Bromodichloromethane	17.4400	0.50	0.14	20.0000		87.2	80 - 122	2.38	20	
Bromoform	19.4700	0.50	0.13	20.0000		97.4	53 - 145	5.65	20	
Bromomethane	27.6400	0.50	0.42	20.0000		138	30 - 204	8.98	20	
Carbon tetrachloride	17.5400	0.50	0.19	20.0000		87.7	77 - 157	6.03	20	
Chlorobenzene	19.1800	0.50	0.07	20.0000		95.9	86 - 113	2.88	20	
Chloroethane	23.0500	0.50	0.40	20.0000		115	70 - 160	6.67	20	
Chloroform	15.9500	0.50	0.17	20.0000		79.8	66 - 136	9.78	20	
Chloromethane	21.0000	0.50	0.08	20.0000		105	52 - 138	3.83	20	
cis-1,2-Dichloroethene	16.7800	0.50	0.13	20.0000		83.9	71 - 128	9.43	20	
cis-1,3-Dichloropropene	20.1100	0.50	0.05	20.0000		101	71 - 123	1.60	20	
Dibromochloromethane	17.6800	0.50	0.14	20.0000		88.4	78 - 140	0.0565	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0763 - MSVOA_W (continued)										
LCS Dup (B8L0763-BSD1) - Continued					Prepared: 12/27/2018 Analyzed: 12/27/2018					
Dibromomethane	17.3400	0.50	0.10	20.0000		86.7	78 - 109	0.578	20	
Dichlorodifluoromethane	22.9000	0.50	0.10	20.0000		114	64 - 144	5.27	20	
Ethylbenzene	39.2800	0.50	0.07	40.0000		98.2	90 - 116	4.65	20	
Hexachlorobutadiene	19.1800	0.50	0.14	20.0000		95.9	81 - 129	6.90	20	
Isopropylbenzene	21.4500	0.50	0.05	20.0000		107	83 - 129	5.31	20	
m,p-Xylene	41.5600	1.0	0.08	40.0000		104	88 - 124	4.70	20	
Methylene chloride	20.3500	1.0	0.46	20.0000		102	76 - 137	4.94	20	
n-Butylbenzene	20.1200	0.50	0.05	20.0000		101	83 - 129	6.54	20	
n-Propylbenzene	20.0000	0.50	0.07	20.0000		100	85 - 124	6.01	20	
Naphthalene	17.3600	0.50	0.15	20.0000		86.8	67 - 113	8.09	20	
o-Xylene	43.9300	0.50	0.05	40.0000		110	82 - 129	3.34	20	
sec-Butylbenzene	20.2000	0.50	0.04	20.0000		101	86 - 127	5.21	20	
Styrene	21.4100	0.50	0.06	20.0000		107	83 - 122	2.58	20	
tert-Butylbenzene	20.4300	0.50	0.06	20.0000		102	84 - 130	4.54	20	
Tetrachloroethene	18.7100	0.50	0.07	20.0000		93.6	87 - 123	5.56	20	
Toluene	41.8300	0.50	0.07	40.0000		105	84 - 115	3.55	20	
trans-1,2-Dichloroethene	16.4100	0.50	0.11	20.0000		82.0	60 - 148	8.96	20	
Trichloroethene	17.5300	0.50	0.05	20.0000		87.6	79 - 129	2.48	20	
Trichlorofluoromethane	16.1600	0.50	0.14	20.0000		80.8	68 - 162	9.83	20	
Vinyl chloride	22.0900	0.50	0.05	20.0000		110	73 - 128	3.08	20	
Surrogate: 1,2-Dichloroethane-d4	*21.67*			*25.0000*		*86.7*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*26.89*			*25.0000*		*108*	*62 - 134*			
Surrogate: Dibromofluoromethan	*21.15*			*25.0000*		*84.6*	*56 - 167*			
Surrogate: Toluene-d8	*27.19*			*25.0000*		*109*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0714 - MSSEMI_W										
Blank (B8L0714-BLK1)					Prepared: 12/24/2018 Analyzed: 12/24/2018					
1,4-Dioxane	ND	2.0	0.84							
Surrogate: 1,2-Dichlorobenzene-d	*60.08*			*100.000*		*60.1*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*66.79*			*100.000*		*66.8*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*76.10*			*100.000*		*76.1*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*76.36*			*100.000*		*76.4*	*32 - 106*			
LCS (B8L0714-BS1)					Prepared: 12/24/2018 Analyzed: 12/24/2018					
1,4-Dioxane	111.030	2.0	0.84	100.000		111	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*57.14*			*100.000*		*57.1*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*68.01*			*100.000*		*68.0*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*68.28*			*100.000*		*68.3*	*71 - 131*			S2
Surrogate: Nitrobenzene-d5	*76.44*			*100.000*		*76.4*	*32 - 106*			
LCS Dup (B8L0714-BSD1)					Prepared: 12/24/2018 Analyzed: 12/24/2018					
1,4-Dioxane	116.830	2.0	0.84	100.000		117	40 - 159	5.09	20	
Surrogate: 1,2-Dichlorobenzene-d	*59.17*			*100.000*		*59.2*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*67.00*			*100.000*		*67.0*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*67.63*			*100.000*		*67.6*	*71 - 131*			S2
Surrogate: Nitrobenzene-d5	*77.51*			*100.000*		*77.5*	*32 - 106*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2018

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B8L0735 - MSSEMI_W										
Blank (B8L0735-BLK1)						Prepared: 12/26/2018 Analyzed: 12/26/2018				
1,4-Dioxane	ND	0.20	0.11							
Surrogate: 1,2-Dichlorobenzene-d	*0.7507*			*1.00000*		*75.1*	*23 - 118*			
Surrogate: 2-Fluorobiphenyl	*1.004*			*1.00000*		*100*	*29 - 118*			
Surrogate: 4-Terphenyl-d14	*0.9986*			*1.00000*		*99.9*	*33 - 121*			
Surrogate: Nitrobenzene-d5	*0.7055*			*1.00000*		*70.6*	*7 - 120*			
LCS (B8L0735-BS1)						Prepared: 12/26/2018 Analyzed: 12/26/2018				
1,4-Dioxane	0.919000	0.20	0.11	1.00000		91.9	47 - 148			
Surrogate: 1,2-Dichlorobenzene-d	*0.7229*			*1.00000*		*72.3*	*23 - 118*			
Surrogate: 2-Fluorobiphenyl	*1.038*			*1.00000*		*104*	*29 - 118*			
Surrogate: 4-Terphenyl-d14	*1.026*			*1.00000*		*103*	*33 - 121*			
Surrogate: Nitrobenzene-d5	*0.6957*			*1.00000*		*69.6*	*7 - 120*			
LCS Dup (B8L0735-BSD1)						Prepared: 12/26/2018 Analyzed: 12/26/2018				
1,4-Dioxane	0.922230	0.20	0.11	1.00000		92.2	47 - 148	0.351	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.7696*			*1.00000*		*77.0*	*23 - 118*			
Surrogate: 2-Fluorobiphenyl	*1.082*			*1.00000*		*108*	*29 - 118*			
Surrogate: 4-Terphenyl-d14	*1.044*			*1.00000*		*104*	*33 - 121*			
Surrogate: Nitrobenzene-d5	*0.7488*			*1.00000*		*74.9*	*7 - 120*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	12/28/2018

Notes and Definitions

S2	Surrogate recovery was below laboratory acceptance limit. Reextraction and/or reanalysisconfirms low recovery caused by matrix effects.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 12/19/2018
Page 1 of 1

PROJECT: Raytheon Main GETS Mid Month Sample

TASK NO.: 532.15

Project Manager Steve Netto
QA Manager Ross Horton
Phone 858.455.6500
Fax 858.455.6533

Sampled By: Ross Horton

SAMPLE COLLECTION

LAB ID	SAMPLE ID	Date	Time	MATRIX: Groundwater	MATRIX: Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	PRESERVATION: Nitric Acid (HNO_3)	PRESERVATION: Sulfuric Acid (H_2SO_4)	PRESERVATION: Ice	CONTAINERS: 40-ml VOA	CONTAINERS: 125 mL Poly	CONTAINERS: 250 mL Poly	CONTAINERS: 250 mL Glass	CONTAINERS: 1 L Poly	CONTAINERS: 1L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	ANALYSIS REQUESTED: Bromate by EPA 317	ANALYSIS REQUESTED: Bromide by EPA 300	ANALYSIS REQUESTED: Alkalinity by SM2320B	ANALYSIS REQUESTED: Total Organic Carbon by SM5310B	ANALYSIS REQUESTED: Total Suspended Solids by SM2540D	ANALYSIS REQUESTED: UV Absorption EPA 415.3 @254 nm	ANALYSIS REQUESTED: 1,4-Dioxane by EPA 8270C MOD	ANALYSIS REQUESTED: 1,4-Dioxane by EPA 8270C SIM	Expected Concentration Range (ppb) for: 0 - 10	10 - 100	100 - 1,000	>1,000		SPECIAL HANDLING: 24 hr TAT	48 Hour TAT	5 Day TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1804897-01	TB-121918	12/19/2018	8:00		X	X			X	2						X									X							X			
-02	CEFF	12/19/2018	10:10	X		X			X	3					1	X								X	X							X			
-03	CBT	12/19/2018	10:15	X		X			X	3					1	X								X	X							X			
-04	POX	12/19/2018	10:20	X		X			X	3					1	X								X	X							X			
-05	INF	12/19/2018	10:25	X		X			X	3					1	X							X				X					X			
-06	EW-02	12/19/2018	11:10	X		X			X	3					1	X							X			X						X			
-07	MW-29	12/19/2018	11:30	X		X			X	3					1	X							X				X					X			
Total number of containers per analysis:										20					6																				Total No. of Containers: 26

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
[signature]	12/20/18 09:00	[signature] 12/20/18 09:00	
Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
[signature] 12/20/18 1:25		[signature]	12/20/18 1125

- [x] No. of containers correct
- [x] Received in good condition
- [ ] Custody seals secure
- [x] Conforms to COC document

0.6 °C Temperature on receipt

Laboratory
Adcanced Technology Laboratories
Attn: Rachelle Arada
3275 Walnut Ave
Signal Hill, CA 90755
(562) 989-4045

Send Results to:
Steve Netto & Ross Horton
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.6500
snetto@hargis.com
rhorton@hargis.com

Instructions

1. Fill out form completely and sign only after verified for completeness
2. Complete in ballpoint pen. Draw one line through error, initial and date correction
3. Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

ADVANCED TECHNOLOGY LABORATORIES

January 21, 2019

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

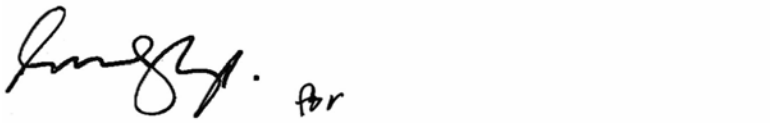
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1900015
Client Reference : Raytheon Main GETS Monthly Sample, 532.15

Enclosed are the results for sample(s) received on January 03, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	01/21/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-010319	1900015-01	Lab prepared water	1/03/19 8:00	1/03/19 16:18
CEFF	1900015-02	Groundwater	1/03/19 12:43	1/03/19 16:18
CBT	1900015-03	Groundwater	1/03/19 12:47	1/03/19 16:18
POX	1900015-04	Groundwater	1/03/19 12:50	1/03/19 16:18
PF	1900015-05	Groundwater	1/03/19 12:56	1/03/19 16:18
INF	1900015-06	Groundwater	1/03/19 13:01	1/03/19 16:18
EW-02	1900015-07	Groundwater	1/03/19 13:27	1/03/19 16:18
MW-29	1900015-08	Groundwater	1/03/19 13:57	1/03/19 16:18

CASE NARRATIVE

The samples for Bromate by IC-MS/MS analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Sample Receiving/General Comments:

The following analytes lists were taken from sample containers: Alkalinity - Hydroxide, Bicarbonate, Carbonate, and Total.

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID TB-010319

Lab ID: 1900015-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,1,1-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,1,2-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,1-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,1-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,1-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,2,3-Trichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,2-Dibromoethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,2-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,2-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,3-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,3-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
1,4-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
2,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
2-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
4-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
4-Isopropyltoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Benzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Bromobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Bromodichloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Bromoform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Bromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Carbon tetrachloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Chlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Chloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Chloroform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Chloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Dibromochloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID TB-010319

Lab ID: 1900015-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Dichlorodifluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Ethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Hexachlorobutadiene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Isopropylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
m,p-Xylene	ND	1.0	1	B9A0063	01/04/2019	01/04/19 14:09	
Methylene chloride	ND	1.0	1	B9A0063	01/04/2019	01/04/19 14:09	
n-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
n-Propylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Naphthalene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
o-Xylene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
sec-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Styrene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
tert-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Tetrachloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Toluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Trichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Trichlorofluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Vinyl chloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:09	
Surrogate: 1,2-Dichloroethane-d4	*92.4 %*	*57 - 152*		B9A0063	01/04/2019	*01/04/19 14:09*	
Surrogate: 4-Bromofluorobenzene	*99.8 %*	*62 - 134*		B9A0063	01/04/2019	*01/04/19 14:09*	
Surrogate: Dibromofluoromethane	*86.7 %*	*56 - 167*		B9A0063	01/04/2019	*01/04/19 14:09*	
Surrogate: Toluene-d8	*109 %*	*33 - 170*		B9A0063	01/04/2019	*01/04/19 14:09*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID CEFF

Lab ID: 1900015-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,1,1-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,1,2-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,1-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,1-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,1-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,2,3-Trichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,2-Dibromoethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,2-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,2-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,3-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,3-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
1,4-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
2,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
2-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
4-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
4-Isopropyltoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Benzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Bromobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Bromodichloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Bromoform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Bromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Carbon tetrachloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Chlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Chloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Chloroform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Chloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Dibromochloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID CEFF

Lab ID: 1900015-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Dichlorodifluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Ethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Hexachlorobutadiene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Isopropylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
m,p-Xylene	ND	1.0	1	B9A0063	01/04/2019	01/04/19 14:33	
Methylene chloride	ND	1.0	1	B9A0063	01/04/2019	01/04/19 14:33	
n-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
n-Propylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Naphthalene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
o-Xylene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
sec-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Styrene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
tert-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Tetrachloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Toluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Trichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Trichlorofluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Vinyl chloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:33	
Surrogate: 1,2-Dichloroethane-d4	*96.9 %*	*57 - 152*		B9A0063	01/04/2019	*01/04/19 14:33*	
Surrogate: 4-Bromofluorobenzene	*99.0 %*	*62 - 134*		B9A0063	01/04/2019	*01/04/19 14:33*	
Surrogate: Dibromofluoromethane	*90.7 %*	*56 - 167*		B9A0063	01/04/2019	*01/04/19 14:33*	
Surrogate: Toluene-d8	*108 %*	*33 - 170*		B9A0063	01/04/2019	*01/04/19 14:33*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID CEFF

Lab ID: 1900015-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9A0112	01/07/2019	01/07/19 14:23	
Surrogate: 1,2-Dichlorobenzene-d4	*73.1 %*		*23 - 118*		B9A0112	01/07/2019	*01/07/19 14:23*	
Surrogate: 2-Fluorobiphenyl	*95.4 %*		*29 - 118*		B9A0112	01/07/2019	*01/07/19 14:23*	
Surrogate: 4-Terphenyl-d14	*71.3 %*		*33 - 121*		B9A0112	01/07/2019	*01/07/19 14:23*	
Surrogate: Nitrobenzene-d5	*69.4 %*		*7 - 120*		B9A0112	01/07/2019	*01/07/19 14:23*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID CBT

Lab ID: 1900015-03

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,1,1-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,1,2-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,1-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,1-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,1-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,2,3-Trichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,2-Dibromoethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,2-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,2-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,3-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,3-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
1,4-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
2,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
2-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
4-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
4-Isopropyltoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Benzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Bromobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Bromodichloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Bromoform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Bromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Carbon tetrachloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Chlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Chloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Chloroform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Chloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Dibromochloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID CBT

Lab ID: 1900015-03

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Dichlorodifluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Ethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Hexachlorobutadiene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Isopropylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
m,p-Xylene	ND	1.0	1	B9A0063	01/04/2019	01/04/19 14:57	
Methylene chloride	ND	1.0	1	B9A0063	01/04/2019	01/04/19 14:57	
n-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
n-Propylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Naphthalene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
o-Xylene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
sec-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Styrene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
tert-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Tetrachloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Toluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Trichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Trichlorofluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Vinyl chloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 14:57	
Surrogate: 1,2-Dichloroethane-d4	*93.1 %*	*57 - 152*		B9A0063	01/04/2019	*01/04/19 14:57*	
Surrogate: 4-Bromofluorobenzene	*98.4 %*	*62 - 134*		B9A0063	01/04/2019	*01/04/19 14:57*	
Surrogate: Dibromofluoromethane	*88.2 %*	*56 - 167*		B9A0063	01/04/2019	*01/04/19 14:57*	
Surrogate: Toluene-d8	*108 %*	*33 - 170*		B9A0063	01/04/2019	*01/04/19 14:57*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID CBT

Lab ID: 1900015-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9A0112	01/07/2019	01/07/19 14:49	
Surrogate: 1,2-Dichlorobenzene-d4	*69.7 %*		*23 - 118*		B9A0112	01/07/2019	*01/07/19 14:49*	
Surrogate: 2-Fluorobiphenyl	*90.8 %*		*29 - 118*		B9A0112	01/07/2019	*01/07/19 14:49*	
Surrogate: 4-Terphenyl-d14	*63.3 %*		*33 - 121*		B9A0112	01/07/2019	*01/07/19 14:49*	
Surrogate: Nitrobenzene-d5	*65.2 %*		*7 - 120*		B9A0112	01/07/2019	*01/07/19 14:49*	

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San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID POX

Lab ID: 1900015-04

Alkalinity, Speciated by SM 2320B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Alkalinity, Bicarbonate (as CaCO3)	**220**	5.0	1	B9A0191	01/09/2019	01/09/19 12:32	
Alkalinity, Carbonate (as CaCO3)	ND	5.0	1	B9A0191	01/09/2019	01/09/19 12:32	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	1	B9A0191	01/09/2019	01/09/19 12:32	
Alkalinity, Total (as CaCO3)	**220**	5.0	1	B9A0191	01/09/2019	01/09/19 12:32	

Total Organic Carbon by SM 5310B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	1	B9A0198	01/09/2019	01/09/19 14:18	

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,1,1-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,1,2-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,1-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,1-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,1-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,2,3-Trichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,2-Dibromoethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,2-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,2-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,3-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,3-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
1,4-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
2,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
2-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID POX

Lab ID: 1900015-04

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
4-Isopropyltoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Benzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Bromobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Bromodichloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Bromoform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Bromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Carbon tetrachloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Chlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Chloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Chloroform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Chloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Dibromochloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Dibromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Dichlorodifluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Ethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Hexachlorobutadiene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Isopropylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
m,p-Xylene	ND	1.0	1	B9A0063	01/04/2019	01/04/19 15:21	
Methylene chloride	ND	1.0	1	B9A0063	01/04/2019	01/04/19 15:21	
n-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
n-Propylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Naphthalene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
o-Xylene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
sec-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Styrene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
tert-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Tetrachloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Toluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Trichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Trichlorofluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Vinyl chloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:21	
Surrogate: 1,2-Dichloroethane-d4	*93.8 %*	*57 - 152*		B9A0063	01/04/2019	*01/04/19 15:21*	
Surrogate: 4-Bromofluorobenzene	*97.8 %*	*62 - 134*		B9A0063	01/04/2019	*01/04/19 15:21*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	01/21/2019

Client Sample ID POX

Lab ID: 1900015-04

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Dibromofluoromethane	*87.8 %*		*56 - 167*		B9A0063	01/04/2019	*01/04/19 15:21*	
Surrogate: Toluene-d8	*108 %*		*33 - 170*		B9A0063	01/04/2019	*01/04/19 15:21*	

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique — **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9A0112	01/07/2019	01/07/19 15:15	
Surrogate: 1,2-Dichlorobenzene-d4	*76.7 %*		*23 - 118*		B9A0112	01/07/2019	*01/07/19 15:15*	
Surrogate: 2-Fluorobiphenyl	*98.6 %*		*29 - 118*		B9A0112	01/07/2019	*01/07/19 15:15*	
Surrogate: 4-Terphenyl-d14	*64.8 %*		*33 - 121*		B9A0112	01/07/2019	*01/07/19 15:15*	
Surrogate: Nitrobenzene-d5	*72.4 %*		*7 - 120*		B9A0112	01/07/2019	*01/07/19 15:15*	

Certificate of Analysis

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Client Sample ID PF

Lab ID: 1900015-05

UV Absorption by EPA 415.3

Analyst: BL

Analyte	Result (1/cm)	PQL (1/cm)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
UV Absorption	ND	0.01	1	B9A0085	01/04/2019	01/04/19 15:57	

Alkalinity, Speciated by SM 2320B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Alkalinity, Bicarbonate (as CaCO3)	**210**	5.0	1	B9A0191	01/09/2019	01/09/19 12:32	
Alkalinity, Carbonate (as CaCO3)	ND	5.0	1	B9A0191	01/09/2019	01/09/19 12:32	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	1	B9A0191	01/09/2019	01/09/19 12:32	
Alkalinity, Total (as CaCO3)	**210**	5.0	1	B9A0191	01/09/2019	01/09/19 12:32	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D

Analyst: VQ

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	1.0	1	B9A0150	01/07/2019	01/08/19 11:00	

Total Organic Carbon by SM 5310B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	**3.0**	3.0	1	B9A0198	01/09/2019	01/09/19 14:31	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
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San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID INF

Lab ID: 1900015-06

Bromide by Ion Chromatography EPA 300 — **Analyst: JL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.30**	0.10	2	B9A0202	01/08/2019	01/08/19 13:17	

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,1,1-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,1,2-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,1-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,1-Dichloroethene	**36**	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,1-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,2,3-Trichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,2-Dibromoethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,2-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,2-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,3-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,3-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
1,4-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
2,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
2-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
4-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
4-Isopropyltoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Benzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Bromobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Bromodichloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Bromoform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Bromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Carbon tetrachloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Chlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	

Certificate of Analysis

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Client Sample ID INF

Lab ID: 1900015-06

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Chloroform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Chloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Dibromochloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Dibromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Dichlorodifluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Ethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Hexachlorobutadiene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Isopropylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
m,p-Xylene	ND	1.0	1	B9A0063	01/04/2019	01/04/19 15:46	
Methylene chloride	ND	1.0	1	B9A0063	01/04/2019	01/04/19 15:46	
n-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
n-Propylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Naphthalene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
o-Xylene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
sec-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Styrene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
tert-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Tetrachloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Toluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Trichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Trichlorofluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Vinyl chloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 15:46	
Surrogate: 1,2-Dichloroethane-d4	*94.6 %*	*57 - 152*		B9A0063	01/04/2019	*01/04/19 15:46*	
Surrogate: 4-Bromofluorobenzene	*97.0 %*	*62 - 134*		B9A0063	01/04/2019	*01/04/19 15:46*	
Surrogate: Dibromofluoromethane	*89.5 %*	*56 - 167*		B9A0063	01/04/2019	*01/04/19 15:46*	
Surrogate: Toluene-d8	*107 %*	*33 - 170*		B9A0063	01/04/2019	*01/04/19 15:46*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
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Client Sample ID INF

Lab ID: 1900015-06

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**25**	2.0	1	B9A0119	01/07/2019	01/07/19 17:58	
Surrogate: 1,2-Dichlorobenzene-d4	*58.1 %*		*34 - 188*		B9A0119	01/07/2019	*01/07/19 17:58*	
Surrogate: 2-Fluorobiphenyl	*60.8 %*		*39 - 108*		B9A0119	01/07/2019	*01/07/19 17:58*	
Surrogate: 4-Terphenyl-d14	*66.7 %*		*71 - 131*		B9A0119	01/07/2019	*01/07/19 17:58*	S2
Surrogate: Nitrobenzene-d5	*66.4 %*		*32 - 106*		B9A0119	01/07/2019	*01/07/19 17:58*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
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Client Sample ID EW-02

Lab ID: 1900015-07

Bromide by Ion Chromatography EPA 300 — **Analyst: JL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.26**	0.10	2	B9A0202	01/08/2019	01/08/19 13:28	

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,1,1-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,1,2-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,1-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,1-Dichloroethene	**10**	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,1-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,2,3-Trichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,2-Dibromoethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,2-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,2-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,3-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,3-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
1,4-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
2,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
2-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
4-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
4-Isopropyltoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Benzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Bromobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Bromodichloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Bromoform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Bromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Carbon tetrachloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Chlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	

Certificate of Analysis

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San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID EW-02

Lab ID: 1900015-07

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Chloroform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Chloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Dibromochloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Dibromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Dichlorodifluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Ethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Hexachlorobutadiene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Isopropylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
m,p-Xylene	ND	1.0	1	B9A0063	01/04/2019	01/04/19 16:10	
Methylene chloride	ND	1.0	1	B9A0063	01/04/2019	01/04/19 16:10	
n-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
n-Propylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Naphthalene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
o-Xylene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
sec-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Styrene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
tert-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Tetrachloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Toluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Trichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Trichlorofluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Vinyl chloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:10	
Surrogate: 1,2-Dichloroethane-d4	*98.0 %*	*57 - 152*		B9A0063	01/04/2019	*01/04/19 16:10*	
Surrogate: 4-Bromofluorobenzene	*97.3 %*	*62 - 134*		B9A0063	01/04/2019	*01/04/19 16:10*	
Surrogate: Dibromofluoromethane	*91.0 %*	*56 - 167*		B9A0063	01/04/2019	*01/04/19 16:10*	
Surrogate: Toluene-d8	*106 %*	*33 - 170*		B9A0063	01/04/2019	*01/04/19 16:10*	

Certificate of Analysis

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Client Sample ID EW-02

Lab ID: 1900015-07

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	2.0	1	B9A0119	01/07/2019	01/07/19 18:23	
Surrogate: 1,2-Dichlorobenzene-d4	*59.7 %*		*34 - 188*		B9A0119	01/07/2019	*01/07/19 18:23*	
Surrogate: 2-Fluorobiphenyl	*64.0 %*		*39 - 108*		B9A0119	01/07/2019	*01/07/19 18:23*	
Surrogate: 4-Terphenyl-d14	*71.4 %*		*71 - 131*		B9A0119	01/07/2019	*01/07/19 18:23*	
Surrogate: Nitrobenzene-d5	*71.8 %*		*32 - 106*		B9A0119	01/07/2019	*01/07/19 18:23*	

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San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID MW-29

Lab ID: 1900015-08

Bromide by Ion Chromatography EPA 300 — **Analyst: JL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.46**	0.10	2	B9A0202	01/08/2019	01/08/19 13:40	

Volatile Organic Compounds by EPA 8260B — **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,1,1-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,1,2-Trichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,1-Dichloroethane	**1.3**	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,1-Dichloroethene	**100**	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,1-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,2,3-Trichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,2-Dibromoethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,2-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,2-Dichloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,3-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,3-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
1,4-Dichlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
2,2-Dichloropropane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
2-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
4-Chlorotoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
4-Isopropyltoluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Benzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Bromobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Bromodichloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Bromoform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Bromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Carbon tetrachloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Chlorobenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	

Certificate of Analysis

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San Diego , CA 92122	Reported : 01/21/2019

Client Sample ID MW-29

Lab ID: 1900015-08

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloroethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Chloroform	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Chloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Dibromochloromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Dibromomethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Dichlorodifluoromethane	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Ethylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Hexachlorobutadiene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Isopropylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
m,p-Xylene	ND	1.0	1	B9A0063	01/04/2019	01/04/19 16:34	
Methylene chloride	ND	1.0	1	B9A0063	01/04/2019	01/04/19 16:34	
n-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
n-Propylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Naphthalene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
o-Xylene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
sec-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Styrene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
tert-Butylbenzene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Tetrachloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Toluene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Trichloroethene	**1.5**	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Trichlorofluoromethane	**0.60**	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Vinyl chloride	ND	0.50	1	B9A0063	01/04/2019	01/04/19 16:34	
Surrogate: 1,2-Dichloroethane-d4	*94.8 %*	*57 - 152*		B9A0063	01/04/2019	*01/04/19 16:34*	
Surrogate: 4-Bromofluorobenzene	*101 %*	*62 - 134*		B9A0063	01/04/2019	*01/04/19 16:34*	
Surrogate: Dibromofluoromethane	*88.2 %*	*56 - 167*		B9A0063	01/04/2019	*01/04/19 16:34*	
Surrogate: Toluene-d8	*107 %*	*33 - 170*		B9A0063	01/04/2019	*01/04/19 16:34*	

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Client Sample ID MW-29

Lab ID: 1900015-08

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**110**	2.0	1	B9A0119	01/07/2019	01/07/19 18:49	
Surrogate: 1,2-Dichlorobenzene-d4	*58.8 %*		*34 - 188*		B9A0119	01/07/2019	*01/07/19 18:49*	
Surrogate: 2-Fluorobiphenyl	*62.7 %*		*39 - 108*		B9A0119	01/07/2019	*01/07/19 18:49*	
Surrogate: 4-Terphenyl-d14	*70.1 %*		*71 - 131*		B9A0119	01/07/2019	*01/07/19 18:49*	S2
Surrogate: Nitrobenzene-d5	*68.6 %*		*32 - 106*		B9A0119	01/07/2019	*01/07/19 18:49*	

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QUALITY CONTROL SECTION

Alkalinity, Speciated by SM 2320B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0191 - No_Prep_WC1_W										
Blank (B9A0191-BLK1)					Prepared: 1/9/2019 Analyzed: 1/9/2019					
Alkalinity, Bicarbonate (as CaCO3)	ND	5.0	3.4							
Alkalinity, Carbonate (as CaCO3)	ND	5.0	3.4							
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	3.4							
Alkalinity, Total (as CaCO3)	ND	5.0	3.4							
LCS (B9A0191-BS1)					Prepared: 1/9/2019 Analyzed: 1/9/2019					
Alkalinity, Total (as CaCO3)	100.420	5.0	3.4	99.9580		100	80 - 120			
Matrix Spike (B9A0191-MS1)			**Source: 1900015-04**		Prepared: 1/9/2019 Analyzed: 1/9/2019					
Alkalinity, Total (as CaCO3)	313.810	5.0	3.4	99.9580	215.480	98.4	80 - 120			
Matrix Spike Dup (B9A0191-MSD1)			**Source: 1900015-04**		Prepared: 1/9/2019 Analyzed: 1/9/2019					
Alkalinity, Total (as CaCO3)	311.720	5.0	3.4	99.9580	215.480	96.3	80 - 120	0.668	20	

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Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0150 - No_Prep_WC1_W										
Blank (B9A0150-BLK1)					Prepared: 1/7/2019 Analyzed: 1/8/2019					
Residue, Suspended	ND	1.0	1.0							
LCS (B9A0150-BS1)					Prepared: 1/7/2019 Analyzed: 1/8/2019					
Residue, Suspended	112.000	10	10	97.4000		115	80 - 120			
Duplicate (B9A0150-DUP1)			**Source: 1900045-03**		Prepared: 1/7/2019 Analyzed: 1/8/2019					
Residue, Suspended	395.000	10	10		399.000			1.01	10	

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Bromide by Ion Chromatography EPA 300 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0202 - No_Prep_IC1_W										
Blank (B9A0202-BLK1)					Prepared: 1/8/2019 Analyzed: 1/8/2019					
Bromide	ND	0.05	0.01							
LCS (B9A0202-BS1)					Prepared: 1/8/2019 Analyzed: 1/8/2019					
Bromide	1.00460	0.05	0.01	1.00000		100	90 - 110			
Duplicate (B9A0202-DUP1)			**Source: 1900048-02**		Prepared: 1/8/2019 Analyzed: 1/8/2019					
Bromide	0.893000	0.50	0.10		0.879000			1.58	20	
Matrix Spike (B9A0202-MS1)			**Source: 1900048-02**		Prepared: 1/8/2019 Analyzed: 1/8/2019					
Bromide	2.77350			2.50000	0.0879	107	80 - 120			
Matrix Spike (B9A0202-MS2)			**Source: 1900048-07**		Prepared: 1/8/2019 Analyzed: 1/8/2019					
Bromide	2.74120			2.50000	0.087	106	80 - 120			
Matrix Spike Dup (B9A0202-MSD1)			**Source: 1900048-02**		Prepared: 1/8/2019 Analyzed: 1/8/2019					
Bromide	2.77820			2.50000	0.0879	108	80 - 120	0.169	20	

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UV Absorption by EPA 415.3 - Quality Control

Analyte	Result (1/cm)	PQL (1/cm)	MDL (1/cm)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0085 - No_Prep_II_W										
Duplicate (B9A0085-DUP1)			**Source: 1900015-05**		Prepared: 1/4/2019 Analyzed: 1/4/2019					
UV Absorption	ND	0.01	0.01		ND			NR	20	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
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Total Organic Carbon by SM 5310B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0198 - No_Prep_II_W										
Blank (B9A0198-BLK1)					Prepared: 1/9/2019 Analyzed: 1/9/2019					
Organic Carbon, Total	ND	3.0	1.8							
LCS (B9A0198-BS1)					Prepared: 1/9/2019 Analyzed: 1/9/2019					
Organic Carbon, Total	21.2300	3.0	1.8	20.0000		106	80 - 120			
LCS Dup (B9A0198-BSD1)					Prepared: 1/9/2019 Analyzed: 1/9/2019					
Organic Carbon, Total	20.8600	3.0	1.8	20.0000		104	80 - 120	1.76	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0063 - MSVOA_W										
Blank (B9A0063-BLK1)					Prepared: 1/4/2019 Analyzed: 1/4/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0063 - MSVOA_W (continued)										
Blank (B9A0063-BLK1) - Continued					Prepared: 1/4/2019 Analyzed: 1/4/2019					
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*21.59*			*25.0000*		*86.4*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*24.56*			*25.0000*		*98.2*	*62 - 134*			
Surrogate: Dibromofluoromethan	*20.96*			*25.0000*		*83.8*	*56 - 167*			
Surrogate: Toluene-d8	*26.32*			*25.0000*		*105*	*33 - 170*			
LCS (B9A0063-BS1)					Prepared: 1/4/2019 Analyzed: 1/4/2019					
1,1,1,2-Tetrachloroethane	17.8100	0.50	0.11	20.0000		89.0	80 - 137			
1,1,1-Trichloroethane	16.4200	0.50	0.18	20.0000		82.1	75 - 148			
1,1,2,2-Tetrachloroethane	17.1600	0.50	0.17	20.0000		85.8	64 - 118			
1,1,2-Trichloroethane	17.5700	0.50	0.12	20.0000		87.8	77 - 113			
1,1-Dichloroethane	16.5100	0.50	0.16	20.0000		82.6	72 - 131			
1,1-Dichloroethene	15.9500	0.50	0.09	20.0000		79.8	75 - 132			
1,1-Dichloropropene	18.5900	0.50	0.21	20.0000		93.0	84 - 141			
1,2,3-Trichloropropane	17.4700	0.50	0.16	20.0000		87.4	65 - 111			
1,2,3-Trichlorobenzene	18.6800	0.50	0.12	20.0000		93.4	79 - 117			
1,2,4-Trichlorobenzene	18.8500	0.50	0.12	20.0000		94.2	78 - 121			
1,2,4-Trimethylbenzene	20.7600	0.50	0.08	20.0000		104	83 - 125			
1,2-Dibromo-3-chloropropane	16.5500	0.50	0.24	20.0000		82.8	54 - 116			
1,2-Dibromoethane	17.7100	0.50	0.11	20.0000		88.6	79 - 118			
1,2-Dichlorobenzene	19.4700	0.50	0.09	20.0000		97.4	82 - 115			
1,2-Dichloroethane	16.2000	0.50	0.19	20.0000		81.0	76 - 115			
1,2-Dichloropropane	17.1400	0.50	0.36	20.0000		85.7	74 - 113			
1,3,5-Trimethylbenzene	20.8000	0.50	0.05	20.0000		104	83 - 126			
1,3-Dichlorobenzene	20.0700	0.50	0.10	20.0000		100	84 - 118			
1,3-Dichloropropane	16.9500	0.50	0.07	20.0000		84.8	72 - 116			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0063 - MSVOA_W (continued)										
LCS (B9A0063-BS1) - Continued					Prepared: 1/4/2019 Analyzed: 1/4/2019					
1,4-Dichlorobenzene	19.1900	0.50	0.07	20.0000		96.0	83 - 112			
2,2-Dichloropropane	17.6000	0.50	0.16	20.0000		88.0	72 - 150			
2-Chlorotoluene	20.4900	0.50	0.08	20.0000		102	82 - 120			
4-Chlorotoluene	20.6000	0.50	0.08	20.0000		103	81 - 121			
4-Isopropyltoluene	21.0100	0.50	0.06	20.0000		105	86 - 124			
Benzene	37.9200	0.50	0.03	40.0000		94.8	81 - 118			
Bromobenzene	18.9200	0.50	0.09	20.0000		94.6	82 - 117			
Bromodichloromethane	16.5700	0.50	0.14	20.0000		82.8	80 - 122			
Bromoform	17.1800	0.50	0.13	20.0000		85.9	53 - 145			
Bromomethane	16.4900	0.50	0.42	20.0000		82.4	30 - 204			
Carbon tetrachloride	17.6900	0.50	0.19	20.0000		88.4	77 - 157			
Chlorobenzene	19.1100	0.50	0.07	20.0000		95.6	86 - 113			
Chloroethane	22.9500	0.50	0.40	20.0000		115	70 - 160			
Chloroform	15.9300	0.50	0.17	20.0000		79.6	66 - 136			
Chloromethane	17.6200	0.50	0.08	20.0000		88.1	52 - 138			
cis-1,2-Dichloroethene	15.7400	0.50	0.13	20.0000		78.7	71 - 128			
cis-1,3-Dichloropropene	18.4600	0.50	0.05	20.0000		92.3	71 - 123			
Dibromochloromethane	16.5700	0.50	0.14	20.0000		82.8	78 - 140			
Dibromomethane	15.8900	0.50	0.10	20.0000		79.4	78 - 109			
Dichlorodifluoromethane	22.7200	0.50	0.10	20.0000		114	64 - 144			
Ethylbenzene	39.2000	0.50	0.07	40.0000		98.0	90 - 116			
Hexachlorobutadiene	19.5300	0.50	0.14	20.0000		97.6	81 - 129			
Isopropylbenzene	21.7700	0.50	0.05	20.0000		109	83 - 129			
m,p-Xylene	41.7200	1.0	0.08	40.0000		104	88 - 124			
Methylene chloride	20.3800	1.0	0.46	20.0000		102	76 - 137			
n-Butylbenzene	20.3000	0.50	0.05	20.0000		102	83 - 129			
n-Propylbenzene	20.6000	0.50	0.07	20.0000		103	85 - 124			
Naphthalene	15.3300	0.50	0.15	20.0000		76.6	67 - 113			
o-Xylene	43.6000	0.50	0.05	40.0000		109	82 - 129			
sec-Butylbenzene	20.6800	0.50	0.04	20.0000		103	86 - 127			
Styrene	21.1500	0.50	0.06	20.0000		106	83 - 122			
tert-Butylbenzene	20.8500	0.50	0.06	20.0000		104	84 - 130			
Tetrachloroethene	18.8700	0.50	0.07	20.0000		94.4	87 - 123			
Toluene	41.9800	0.50	0.07	40.0000		105	84 - 115			
trans-1,2-Dichloroethene	15.4200	0.50	0.11	20.0000		77.1	60 - 148			
Trichloroethene	17.0100	0.50	0.05	20.0000		85.0	79 - 129			
Trichlorofluoromethane	15.4600	0.50	0.14	20.0000		77.3	68 - 162			
Vinyl chloride	21.0200	0.50	0.05	20.0000		105	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*20.26*			*25.0000*		*81.0*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*26.68*			*25.0000*		*107*	*62 - 134*			
Surrogate: Dibromofluoromethan	*20.46*			*25.0000*		*81.8*	*56 - 167*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0063 - MSVOA_W (continued)										
LCS (B9A0063-BS1) - Continued					Prepared: 1/4/2019 Analyzed: 1/4/2019					
Surrogate: Toluene-d8	*27.19*			*25.0000*		*109*	*33 - 170*			
LCS Dup (B9A0063-BSD1)					Prepared: 1/4/2019 Analyzed: 1/4/2019					
1,1,1,2-Tetrachloroethane	18.3000	0.50	0.11	20.0000		91.5	80 - 137	2.71	20	
1,1,1-Trichloroethane	16.2600	0.50	0.18	20.0000		81.3	75 - 148	0.979	20	
1,1,2,2-Tetrachloroethane	18.6900	0.50	0.17	20.0000		93.4	64 - 118	8.54	20	
1,1,2-Trichloroethane	18.7200	0.50	0.12	20.0000		93.6	77 - 113	6.34	20	
1,1-Dichloroethane	15.8400	0.50	0.16	20.0000		79.2	72 - 131	4.14	20	
1,1-Dichloroethene	14.6600	0.50	0.09	20.0000		73.3	75 - 132	8.43	20	L4
1,1-Dichloropropene	18.8300	0.50	0.21	20.0000		94.2	84 - 141	1.28	20	
1,2,3-Trichloropropane	18.5100	0.50	0.16	20.0000		92.6	65 - 111	5.78	20	
1,2,3-Trichlorobenzene	19.6800	0.50	0.12	20.0000		98.4	79 - 117	5.21	20	
1,2,4-Trichlorobenzene	19.1100	0.50	0.12	20.0000		95.6	78 - 121	1.37	20	
1,2,4-Trimethylbenzene	20.0100	0.50	0.08	20.0000		100	83 - 125	3.68	20	
1,2-Dibromo-3-chloropropane	18.3000	0.50	0.24	20.0000		91.5	54 - 116	10.0	20	
1,2-Dibromoethane	19.3200	0.50	0.11	20.0000		96.6	79 - 118	8.70	20	
1,2-Dichlorobenzene	19.8400	0.50	0.09	20.0000		99.2	82 - 115	1.88	20	
1,2-Dichloroethane	16.4400	0.50	0.19	20.0000		82.2	76 - 115	1.47	20	
1,2-Dichloropropane	17.5400	0.50	0.36	20.0000		87.7	74 - 113	2.31	20	
1,3,5-Trimethylbenzene	20.1800	0.50	0.05	20.0000		101	83 - 126	3.03	20	
1,3-Dichlorobenzene	19.7300	0.50	0.10	20.0000		98.6	84 - 118	1.71	20	
1,3-Dichloropropane	18.3400	0.50	0.07	20.0000		91.7	72 - 116	7.88	20	
1,4-Dichlorobenzene	19.1000	0.50	0.07	20.0000		95.5	83 - 112	0.470	20	
2,2-Dichloropropane	17.3000	0.50	0.16	20.0000		86.5	72 - 150	1.72	20	
2-Chlorotoluene	19.9200	0.50	0.08	20.0000		99.6	82 - 120	2.82	20	
4-Chlorotoluene	20.0700	0.50	0.08	20.0000		100	81 - 121	2.61	20	
4-Isopropyltoluene	20.1700	0.50	0.06	20.0000		101	86 - 124	4.08	20	
Benzene	38.3700	0.50	0.03	40.0000		95.9	81 - 118	1.18	20	
Bromobenzene	18.9700	0.50	0.09	20.0000		94.8	82 - 117	0.264	20	
Bromodichloromethane	16.7700	0.50	0.14	20.0000		83.8	80 - 122	1.20	20	
Bromoform	18.9000	0.50	0.13	20.0000		94.5	53 - 145	9.53	20	
Bromomethane	17.8500	0.50	0.42	20.0000		89.2	30 - 204	7.92	20	
Carbon tetrachloride	17.6900	0.50	0.19	20.0000		88.4	77 - 157	0.00	20	
Chlorobenzene	19.4500	0.50	0.07	20.0000		97.2	86 - 113	1.76	20	
Chloroethane	23.1000	0.50	0.40	20.0000		116	70 - 160	0.651	20	
Chloroform	14.6200	0.50	0.17	20.0000		73.1	66 - 136	8.58	20	
Chloromethane	18.5600	0.50	0.08	20.0000		92.8	52 - 138	5.20	20	
cis-1,2-Dichloroethene	15.1900	0.50	0.13	20.0000		76.0	71 - 128	3.56	20	
cis-1,3-Dichloropropene	19.4400	0.50	0.05	20.0000		97.2	71 - 123	5.17	20	
Dibromochloromethane	17.5300	0.50	0.14	20.0000		87.6	78 - 140	5.63	20	
Dibromomethane	16.2300	0.50	0.10	20.0000		81.2	78 - 109	2.12	20	
Dichlorodifluoromethane	22.8700	0.50	0.10	20.0000		114	64 - 144	0.658	20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0063 - MSVOA_W (continued)										
LCS Dup (B9A0063-BSD1) - Continued					Prepared: 1/4/2019 Analyzed: 1/4/2019					
Ethylbenzene	39.8100	0.50	0.07	40.0000		99.5	90 - 116	1.54	20	
Hexachlorobutadiene	18.8500	0.50	0.14	20.0000		94.2	81 - 129	3.54	20	
Isopropylbenzene	21.3000	0.50	0.05	20.0000		106	83 - 129	2.18	20	
m,p-Xylene	41.9900	1.0	0.08	40.0000		105	88 - 124	0.645	20	
Methylene chloride	20.5800	1.0	0.46	20.0000		103	76 - 137	0.977	20	
n-Butylbenzene	19.6400	0.50	0.05	20.0000		98.2	83 - 129	3.30	20	
n-Propylbenzene	20.0500	0.50	0.07	20.0000		100	85 - 124	2.71	20	
Naphthalene	16.8600	0.50	0.15	20.0000		84.3	67 - 113	9.51	20	
o-Xylene	44.0600	0.50	0.05	40.0000		110	82 - 129	1.05	20	
sec-Butylbenzene	20.0200	0.50	0.04	20.0000		100	86 - 127	3.24	20	
Styrene	21.6900	0.50	0.06	20.0000		108	83 - 122	2.52	20	
tert-Butylbenzene	20.1700	0.50	0.06	20.0000		101	84 - 130	3.32	20	
Tetrachloroethene	18.6500	0.50	0.07	20.0000		93.2	87 - 123	1.17	20	
Toluene	42.6000	0.50	0.07	40.0000		106	84 - 115	1.47	20	
trans-1,2-Dichloroethene	14.7400	0.50	0.11	20.0000		73.7	60 - 148	4.51	20	
Trichloroethene	17.3500	0.50	0.05	20.0000		86.8	79 - 129	1.98	20	
Trichlorofluoromethane	14.7900	0.50	0.14	20.0000		74.0	68 - 162	4.43	20	
Vinyl chloride	21.6500	0.50	0.05	20.0000		108	73 - 128	2.95	20	
Surrogate: 1,2-Dichloroethane-d4	*20.36*			*25.0000*		*81.4*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.06*			*25.0000*		*108*	*62 - 134*			
Surrogate: Dibromofluoromethan	*20.08*			*25.0000*		*80.3*	*56 - 167*			
Surrogate: Toluene-d8	*27.26*			*25.0000*		*109*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0119 - MSSEMI_W										
Blank (B9A0119-BLK1)					Prepared: 1/7/2019 Analyzed: 1/7/2019					
1,4-Dioxane	ND	2.0	0.84							
Surrogate: 1,2-Dichlorobenzene-d	*59.24*			*100.000*		*59.2*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*64.09*			*100.000*		*64.1*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*71.74*			*100.000*		*71.7*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*70.86*			*100.000*		*70.9*	*32 - 106*			
LCS (B9A0119-BS1)					Prepared: 1/7/2019 Analyzed: 1/7/2019					
1,4-Dioxane	127.820	2.0	0.84	100.000		128	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*61.09*			*100.000*		*61.1*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*69.82*			*100.000*		*69.8*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*73.24*			*100.000*		*73.2*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*74.38*			*100.000*		*74.4*	*32 - 106*			
LCS Dup (B9A0119-BSD1)					Prepared: 1/7/2019 Analyzed: 1/7/2019					
1,4-Dioxane	129.870	2.0	0.84	100.000		130	40 - 159	1.59	20	
Surrogate: 1,2-Dichlorobenzene-d	*60.17*			*100.000*		*60.2*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*69.98*			*100.000*		*70.0*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*75.34*			*100.000*		*75.3*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*76.33*			*100.000*		*76.3*	*32 - 106*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/21/2019

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0112 - MSSEMI_W										
Blank (B9A0112-BLK1)					Prepared: 1/7/2019 Analyzed: 1/7/2019					
1,4-Dioxane	ND	0.20	0.11							
Surrogate: 1,2-Dichlorobenzene-d	*0.7872*			*1.00000*		*78.7*	*23 - 118*			
Surrogate: 2-Fluorobiphenyl	*1.026*			*1.00000*		*103*	*29 - 118*			
Surrogate: 4-Terphenyl-d14	*1.041*			*1.00000*		*104*	*33 - 121*			
Surrogate: Nitrobenzene-d5	*0.7064*			*1.00000*		*70.6*	*7 - 120*			
LCS (B9A0112-BS1)					Prepared: 1/7/2019 Analyzed: 1/7/2019					
1,4-Dioxane	1.16816	0.20	0.11	1.00000		117	47 - 148			
Surrogate: 1,2-Dichlorobenzene-d	*0.7822*			*1.00000*		*78.2*	*23 - 118*			
Surrogate: 2-Fluorobiphenyl	*0.9974*			*1.00000*		*99.7*	*29 - 118*			
Surrogate: 4-Terphenyl-d14	*0.9239*			*1.00000*		*92.4*	*33 - 121*			
Surrogate: Nitrobenzene-d5	*0.7708*			*1.00000*		*77.1*	*7 - 120*			
LCS Dup (B9A0112-BSD1)					Prepared: 1/7/2019 Analyzed: 1/7/2019					
1,4-Dioxane	1.12083	0.20	0.11	1.00000		112	47 - 148	4.14	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.7220*			*1.00000*		*72.2*	*23 - 118*			
Surrogate: 2-Fluorobiphenyl	*0.9617*			*1.00000*		*96.2*	*29 - 118*			
Surrogate: 4-Terphenyl-d14	*1.032*			*1.00000*		*103*	*33 - 121*			
Surrogate: Nitrobenzene-d5	*0.7076*			*1.00000*		*70.8*	*7 - 120*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	01/21/2019

Notes and Definitions

S2	Surrogate recovery was below laboratory acceptance limit. Reextraction and/or reanalysisconfirms low recovery caused by matrix effects.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com

Testing, calibrating, advising

Certificate of Analysis

January 21, 2019

Advanced Technology Laboratories
PO Box 92797
Long Beach, CA 90809-2797

Attn: Rachelle Arada

Exova Job No:	227988
Purchase Order:	CREDIT CARD
Project Name:	1900015 / Groundwater
Samples Received:	2
Date Received:	01-04-19

Analysis	Page
Bromate by SOP 5600, Rev 3	2

Michael Shelton
Technical Director

Samina N. Hussain
Senior Chemist

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All samples will be disposed of 30 days past invoice unless prior arrangements have been made.

EXOVA

Bromate by SOP 5600, Rev 3
Ion Chromatography-Tandem Mass Spectrometry

Sample preparation: An aliquot of each sample was spiked with internal standard (bromate-$^{18}O_3$), and diluted with water. The sample solutions were analyzed using IC-MS/MS.

Parts Per Billion (µg/L)

Sample ID	Result
ATL Lab#: 1900015-04 / POX	ND
ATL Lab#: 1900015-06 / INF	ND
Method Blank	ND
Detection Limit	0.5

Date Analyzed: 01-16-19

Quality Control Summary

Sample ID: ATL Lab#: 1900015-06 / INF

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate	Duplicate % Rec	RPD
Bromate	ND	10.0	11.4	114	10.2	102	11
QC Guidelines				80-120		80-120	NMT 15

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All samples will be disposed of 30 days past invoice unless prior arrangements have been made.

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER

Work Order: 1900015

SENDING LABORATORY:	RECEIVING LABORATORY:
Advanced Technology Laboratories	Exova Inc.
3275 Walnut Avenue	9240 Santa Fe Springs Road
Signal Hill, CA 90755	Santa Fe Springs, CA 90670
Phone: 562.989.4045	Phone :(562) 948-2225
Fax: 562.989.6348	Fax: (562) 948-5850
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC13436-STANDARD TAT
Sampler: Ross Horton	

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1900015-04 (1) / POX		**Groundwater**	**01/03/19 12:50**	
Bromate_ICMS/MS_SUB	**01/18/19 17:00**	01/31/19 12:50		
[Bromate by IC-MS/MS]				
1-Poly Unpres - 125mL				
ATL Lab#: 1900015-06 (2) / INF		**Groundwater**	**01/03/19 13:01**	
Bromate_ICMS/MS_SUB	**01/18/19 17:00**	01/31/19 13:01		
[Bromate by IC-MS/MS]				
1-Poly Unpres - 125mL				

01-04-19 AND: Also has:
(1) H
(2) F

Released By	Date	Received By	Date
	1/4/19 9:14 AM	Exova	01.04.19 9:12 AM
Released By	Date	Received By	Date

227988

HARGIS+ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 01/03/2019
Page 1 of 1

PROJECT: Raytheon Main GETS Monthly Sample

TASK NO.: 532.15

Project Manager Steve Netto
QA Manager Ross Horton
Phone 858.455.6500
Fax 858.455.6533

Sampled By: Ross Horton

SAMPLE COLLECTION

LAB ID	SAMPLE ID	Date	Time	MATRIX: Groundwater	MATRIX: Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	PRESERVATION: Nitric Acid (HNO_3)	PRESERVATION:	PRESERVATION: Sulfuric Acid (H_2SO_4)	PRESERVATION: Ice	CONTAINERS: 40-ml VOA	CONTAINERS: 125 mL Poly	CONTAINERS: 250 mL Poly	CONTAINERS: 250 mL Glass	CONTAINERS: 1 L Poly	CONTAINERS: 1L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	ANALYSIS REQUESTED: Bromate by EPA 317	ANALYSIS REQUESTED: Bromide by EPA 300	ANALYSIS REQUESTED: Alkalinity by SM2320B	ANALYSIS REQUESTED: Total Organic Carbon by SM5310B	ANALYSIS REQUESTED: Total Suspended Solids by SM2540D	ANALYSIS REQUESTED: UV Absorption EPA 415.3 @254 nm	ANALYSIS REQUESTED: 1,4-Dioxane by EPA 8270C MOD	ANALYSIS REQUESTED: 1,4-Dioxane by EPA 8270 SIM	Expected Concentration Range (ppb) for VOAs: 0 - 10	Expected Concentration Range (ppb) for VOAs: 10 - 100	Expected Concentration Range (ppb) for VOAs: 100 - 1,000	Expected Concentration Range (ppb) for VOAs: >1,000		SPECIAL HANDLING: 24 hr TAT	SPECIAL HANDLING: 48 Hour TAT	SPECIAL HANDLING: 5 Day TAT	SPECIAL HANDLING: Level IV Data Validation Requested	SPECIAL HANDLING: MS/MSD Requested	REMARKS
1900015-01	TB-010319	1/3/2019	8:00		X	X				X	2						X									X							X			
-02	CEFF	1/3/2019	12:43	X		X				X	3					1	X								X	X							X			
-03	CBT	1/3/2019	12:47	X		X				X	3					1	X								X	X							X			
-04	POX	1/3/2019	12:50	X		X			X	X	5	1	1			1	X	X		X	X				X	X							X			
-05	PF	1/3/2019	12:56	X		X			X	X	2		1	1	1					X	X	X	X										X			
-06	INF	1/3/2019	13:01	X		X				X	3	2				1	X	X	X					X				X					X			
-07	EW-02	1/3/2019	13:27	X		X				X	3	1				1	X		X					X			X						X			
-08	MW-29	1/3/2019	13:57	X		X				X	3	1				1	X		X					X				X					X			
Total number of containers per analysis:											24	5	2	1	1	6																			

Total No. of Containers: 39

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
H+A	1/3/19 14:30		1-3-19 14:30
Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
	1-3-19 16:18		1/3/19 16:18

- ✓ No. of containers correct
- ✓ Received in good condition
- Custody seals secure
- ✓ Conforms to COC document

0.6 ice — Temperature on receipt

Laboratory

Advanced Technology Laboratories
Attn: Rachelle Arada
3275 Walnut Ave
Signal Hill, CA 90755
(562) 989-4045

Send Results to:
Steve Netto & Ross Horton
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.6500
snetto@hargis.com
rhorton@hargis.com

Instructions
- Fill out form completely and sign only after verified for completeness
- Complete in ballpoint pen. Draw one line through error, initial and date correction
- Indicate the number of sample containers in analytical request space; indicate choice with ✓ or ×
- Note applicable preservatives, special instructions, and deviations from typical environmental samples.
- Consult project QA documents for specific instructions.

ADVANCED TECHNOLOGY LABORATORIES

February 01, 2019

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

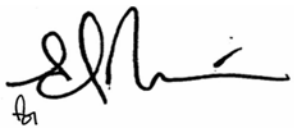
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1900327
Client Reference : Raytheon Main GETS Mid Month Sample, 532.15

Enclosed are the results for sample(s) received on January 24, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/01/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-012419	1900327-01	Lab prepared water	1/24/19 8:00	1/24/19 16:53
CEFF	1900327-02	Groundwater	1/24/19 14:30	1/24/19 16:53
CBT	1900327-03	Groundwater	1/24/19 14:33	1/24/19 16:53
POX	1900327-04	Groundwater	1/24/19 14:37	1/24/19 16:53
INF	1900327-05	Groundwater	1/24/19 14:41	1/24/19 16:53
EW-02	1900327-06	Groundwater	1/24/19 15:05	1/24/19 16:53
MW-29	1900327-07	Groundwater	1/24/19 15:25	1/24/19 16:53

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID TB-012419

Lab ID: 1900327-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,1,1-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,1,2-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,1-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,1-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,1-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,2,3-Trichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,2-Dibromoethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,2-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,2-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,3-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,3-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
1,4-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
2,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
2-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
4-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
4-Isopropyltoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Benzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Bromobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Bromodichloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Bromoform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Bromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Carbon tetrachloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Chlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Chloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Chloroform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Chloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Dibromochloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID TB-012419

Lab ID: 1900327-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Dichlorodifluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Ethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Hexachlorobutadiene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Isopropylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
m,p-Xylene	ND	1.0	1	B9A0595	01/25/2019	01/25/19 19:38	
Methylene chloride	ND	1.0	1	B9A0595	01/25/2019	01/25/19 19:38	
n-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
n-Propylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Naphthalene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
o-Xylene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
sec-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Styrene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
tert-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Tetrachloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Toluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Trichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Trichlorofluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Vinyl chloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 19:38	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*57 - 152*		B9A0595	01/25/2019	*01/25/19 19:38*	
Surrogate: 4-Bromofluorobenzene	*83.7 %*	*62 - 134*		B9A0595	01/25/2019	*01/25/19 19:38*	
Surrogate: Dibromofluoromethane	*95.5 %*	*56 - 167*		B9A0595	01/25/2019	*01/25/19 19:38*	
Surrogate: Toluene-d8	*93.0 %*	*33 - 170*		B9A0595	01/25/2019	*01/25/19 19:38*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID CEFF

Lab ID: 1900327-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,1,1-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,1,2-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,1-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,1-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,1-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,2,3-Trichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,2-Dibromoethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,2-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,2-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,3-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,3-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
1,4-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
2,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
2-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
4-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
4-Isopropyltoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Benzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Bromobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Bromodichloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Bromoform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Bromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Carbon tetrachloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Chlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Chloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Chloroform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Chloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Dibromochloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/01/2019

Client Sample ID CEFF

Lab ID: 1900327-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Dichlorodifluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Ethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Hexachlorobutadiene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Isopropylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
m,p-Xylene	ND	1.0	1	B9A0595	01/25/2019	01/25/19 20:02	
Methylene chloride	ND	1.0	1	B9A0595	01/25/2019	01/25/19 20:02	
n-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
n-Propylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Naphthalene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
o-Xylene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
sec-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Styrene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
tert-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Tetrachloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Toluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Trichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Trichlorofluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Vinyl chloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:02	
Surrogate: 1,2-Dichloroethane-d4	*107 %*	*57 - 152*		B9A0595	01/25/2019	*01/25/19 20:02*	
Surrogate: 4-Bromofluorobenzene	*86.4 %*	*62 - 134*		B9A0595	01/25/2019	*01/25/19 20:02*	
Surrogate: Dibromofluoromethane	*95.6 %*	*56 - 167*		B9A0595	01/25/2019	*01/25/19 20:02*	
Surrogate: Toluene-d8	*96.6 %*	*33 - 170*		B9A0595	01/25/2019	*01/25/19 20:02*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID CEFF

Lab ID: 1900327-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9A0678	01/29/2019	01/30/19 18:15	
Surrogate: 1,2-Dichlorobenzene-d4	*73.3 %*		*22 - 117*		B9A0678	01/29/2019	*01/30/19 18:15*	
Surrogate: 2-Fluorobiphenyl	*118 %*		*20 - 131*		B9A0678	01/29/2019	*01/30/19 18:15*	
Surrogate: 4-Terphenyl-d14	*59.8 %*		*24 - 135*		B9A0678	01/29/2019	*01/30/19 18:15*	
Surrogate: Nitrobenzene-d5	*85.7 %*		*6 - 124*		B9A0678	01/29/2019	*01/30/19 18:15*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID CBT

Lab ID: 1900327-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,1,1-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,1,2-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,1-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,1-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,1-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,2,3-Trichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,2-Dibromoethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,2-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,2-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,3-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,3-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
1,4-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
2,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
2-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
4-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
4-Isopropyltoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Benzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Bromobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Bromodichloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Bromoform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Bromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Carbon tetrachloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Chlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Chloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Chloroform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Chloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Dibromochloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID CBT

Lab ID: 1900327-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Dichlorodifluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Ethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Hexachlorobutadiene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Isopropylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
m,p-Xylene	ND	1.0	1	B9A0595	01/25/2019	01/25/19 20:26	
Methylene chloride	ND	1.0	1	B9A0595	01/25/2019	01/25/19 20:26	
n-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
n-Propylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Naphthalene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
o-Xylene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
sec-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Styrene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
tert-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Tetrachloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Toluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Trichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Trichlorofluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Vinyl chloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:26	
Surrogate: 1,2-Dichloroethane-d4	*107 %*	*57 - 152*		B9A0595	01/25/2019	*01/25/19 20:26*	
Surrogate: 4-Bromofluorobenzene	*85.0 %*	*62 - 134*		B9A0595	01/25/2019	*01/25/19 20:26*	
Surrogate: Dibromofluoromethane	*97.2 %*	*56 - 167*		B9A0595	01/25/2019	*01/25/19 20:26*	
Surrogate: Toluene-d8	*94.2 %*	*33 - 170*		B9A0595	01/25/2019	*01/25/19 20:26*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID CBT

Lab ID: 1900327-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9A0678	01/29/2019	01/30/19 18:42	
Surrogate: 1,2-Dichlorobenzene-d4	*71.4 %*		*22 - 117*		B9A0678	01/29/2019	*01/30/19 18:42*	
Surrogate: 2-Fluorobiphenyl	*84.0 %*		*20 - 131*		B9A0678	01/29/2019	*01/30/19 18:42*	
Surrogate: 4-Terphenyl-d14	*70.9 %*		*24 - 135*		B9A0678	01/29/2019	*01/30/19 18:42*	
Surrogate: Nitrobenzene-d5	*84.7 %*		*6 - 124*		B9A0678	01/29/2019	*01/30/19 18:42*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID POX

Lab ID: 1900327-04

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,1,1-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,1,2-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,1-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,1-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,1-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,2,3-Trichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,2-Dibromoethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,2-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,2-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,3-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,3-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
1,4-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
2,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
2-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
4-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
4-Isopropyltoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Benzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Bromobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Bromodichloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Bromoform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Bromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Carbon tetrachloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Chlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Chloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Chloroform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Chloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Dibromochloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	

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Client Sample ID POX

Lab ID: 1900327-04

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Dichlorodifluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Ethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Hexachlorobutadiene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Isopropylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
m,p-Xylene	ND	1.0	1	B9A0595	01/25/2019	01/25/19 20:50	
Methylene chloride	ND	1.0	1	B9A0595	01/25/2019	01/25/19 20:50	
n-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
n-Propylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Naphthalene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
o-Xylene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
sec-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Styrene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
tert-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Tetrachloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Toluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Trichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Trichlorofluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Vinyl chloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 20:50	
Surrogate: 1,2-Dichloroethane-d4	*109 %*	*57 - 152*		B9A0595	01/25/2019	*01/25/19 20:50*	
Surrogate: 4-Bromofluorobenzene	*84.9 %*	*62 - 134*		B9A0595	01/25/2019	*01/25/19 20:50*	
Surrogate: Dibromofluoromethane	*98.4 %*	*56 - 167*		B9A0595	01/25/2019	*01/25/19 20:50*	
Surrogate: Toluene-d8	*94.9 %*	*33 - 170*		B9A0595	01/25/2019	*01/25/19 20:50*	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID POX

Lab ID: 1900327-04

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9A0678	01/29/2019	01/30/19 19:09	
Surrogate: 1,2-Dichlorobenzene-d4	*69.5 %*		*22 - 117*		B9A0678	01/29/2019	*01/30/19 19:09*	
Surrogate: 2-Fluorobiphenyl	*97.8 %*		*20 - 131*		B9A0678	01/29/2019	*01/30/19 19:09*	
Surrogate: 4-Terphenyl-d14	*60.2 %*		*24 - 135*		B9A0678	01/29/2019	*01/30/19 19:09*	
Surrogate: Nitrobenzene-d5	*83.2 %*		*6 - 124*		B9A0678	01/29/2019	*01/30/19 19:09*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID INF

Lab ID: 1900327-05

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,1,1-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,1,2-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,1-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,1-Dichloroethene	**42**	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,1-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,2,3-Trichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,2-Dibromoethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,2-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,2-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,3-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,3-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
1,4-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
2,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
2-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
4-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
4-Isopropyltoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Benzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Bromobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Bromodichloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Bromoform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Bromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Carbon tetrachloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Chlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Chloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Chloroform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Chloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Dibromochloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Lab ID: 1900327-05

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Dichlorodifluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Ethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Hexachlorobutadiene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Isopropylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
m,p-Xylene	ND	1.0	1	B9A0595	01/25/2019	01/25/19 21:15	
Methylene chloride	ND	1.0	1	B9A0595	01/25/2019	01/25/19 21:15	
n-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
n-Propylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Naphthalene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
o-Xylene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
sec-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Styrene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
tert-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Tetrachloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Toluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Trichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Trichlorofluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Vinyl chloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:15	
Surrogate: 1,2-Dichloroethane-d4	*111 %*	*57 - 152*		B9A0595	01/25/2019	*01/25/19 21:15*	
Surrogate: 4-Bromofluorobenzene	*85.8 %*	*62 - 134*		B9A0595	01/25/2019	*01/25/19 21:15*	
Surrogate: Dibromofluoromethane	*99.4 %*	*56 - 167*		B9A0595	01/25/2019	*01/25/19 21:15*	
Surrogate: Toluene-d8	*95.4 %*	*33 - 170*		B9A0595	01/25/2019	*01/25/19 21:15*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID INF

Lab ID: 1900327-05

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**29**	2.0	1	B9A0687	01/29/2019	01/30/19 20:15	
Surrogate: 1,2-Dichlorobenzene-d4	*75.0 %*		*34 - 188*		B9A0687	01/29/2019	*01/30/19 20:15*	
Surrogate: 2-Fluorobiphenyl	*88.8 %*		*39 - 108*		B9A0687	01/29/2019	*01/30/19 20:15*	
Surrogate: 4-Terphenyl-d14	*125 %*		*71 - 131*		B9A0687	01/29/2019	*01/30/19 20:15*	
Surrogate: Nitrobenzene-d5	*86.8 %*		*32 - 106*		B9A0687	01/29/2019	*01/30/19 20:15*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID EW-02

Lab ID: 1900327-06

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,1,1-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,1,2-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,1-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,1-Dichloroethene	**9.8**	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,1-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,2,3-Trichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,2-Dibromoethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,2-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,2-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,3-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,3-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
1,4-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
2,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
2-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
4-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
4-Isopropyltoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Benzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Bromobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Bromodichloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Bromoform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Bromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Carbon tetrachloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Chlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Chloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Chloroform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Chloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Dibromochloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID EW-02

Lab ID: 1900327-06

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Dichlorodifluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Ethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Hexachlorobutadiene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Isopropylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
m,p-Xylene	ND	1.0	1	B9A0595	01/25/2019	01/25/19 21:39	
Methylene chloride	ND	1.0	1	B9A0595	01/25/2019	01/25/19 21:39	
n-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
n-Propylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Naphthalene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
o-Xylene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
sec-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Styrene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
tert-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Tetrachloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Toluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Trichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Trichlorofluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Vinyl chloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 21:39	
Surrogate: 1,2-Dichloroethane-d4	*112 %*	*57 - 152*		B9A0595	01/25/2019	*01/25/19 21:39*	
Surrogate: 4-Bromofluorobenzene	*83.8 %*	*62 - 134*		B9A0595	01/25/2019	*01/25/19 21:39*	
Surrogate: Dibromofluoromethane	*100 %*	*56 - 167*		B9A0595	01/25/2019	*01/25/19 21:39*	
Surrogate: Toluene-d8	*93.0 %*	*33 - 170*		B9A0595	01/25/2019	*01/25/19 21:39*	

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/01/2019

Client Sample ID EW-02

Lab ID: 1900327-06

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	2.0	1	B9A0687	01/29/2019	01/30/19 20:41	
Surrogate: 1,2-Dichlorobenzene-d4	*72.5 %*		*34 - 188*		B9A0687	01/29/2019	*01/30/19 20:41*	
Surrogate: 2-Fluorobiphenyl	*85.3 %*		*39 - 108*		B9A0687	01/29/2019	*01/30/19 20:41*	
Surrogate: 4-Terphenyl-d14	*124 %*		*71 - 131*		B9A0687	01/29/2019	*01/30/19 20:41*	
Surrogate: Nitrobenzene-d5	*82.3 %*		*32 - 106*		B9A0687	01/29/2019	*01/30/19 20:41*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID MW-29

Lab ID: 1900327-07

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,1,1-Trichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,1,2-Trichloroethane	**0.52**	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,1-Dichloroethane	**1.7**	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,1-Dichloroethene	**150**	5.0	10	B9A0595	01/25/2019	01/25/19 22:27	
1,1-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,2,3-Trichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,2,3-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,2,4-Trichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,2,4-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,2-Dibromoethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,2-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,2-Dichloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,3,5-Trimethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,3-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,3-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
1,4-Dichlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
2,2-Dichloropropane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
2-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
4-Chlorotoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
4-Isopropyltoluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Benzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Bromobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Bromodichloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Bromoform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Bromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Carbon tetrachloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Chlorobenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Chloroethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Chloroform	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Chloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
cis-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
cis-1,3-Dichloropropene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Dibromochloromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID MW-29

Lab ID: 1900327-07

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Dichlorodifluoromethane	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Ethylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Hexachlorobutadiene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Isopropylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
m,p-Xylene	ND	1.0	1	B9A0595	01/25/2019	01/25/19 22:03	
Methylene chloride	ND	1.0	1	B9A0595	01/25/2019	01/25/19 22:03	
n-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
n-Propylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Naphthalene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
o-Xylene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
sec-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Styrene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
tert-Butylbenzene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Tetrachloroethene	**0.59**	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Toluene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
trans-1,2-Dichloroethene	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Trichloroethene	**1.8**	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Trichlorofluoromethane	**0.87**	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Vinyl chloride	ND	0.50	1	B9A0595	01/25/2019	01/25/19 22:03	
Surrogate: 1,2-Dichloroethane-d4	*109 %*	*57 - 152*		B9A0595	01/25/2019	*01/25/19 22:27*	
Surrogate: 1,2-Dichloroethane-d4	*111 %*	*57 - 152*		B9A0595	01/25/2019	*01/25/19 22:03*	
Surrogate: 4-Bromofluorobenzene	*85.4 %*	*62 - 134*		B9A0595	01/25/2019	*01/25/19 22:27*	
Surrogate: 4-Bromofluorobenzene	*83.5 %*	*62 - 134*		B9A0595	01/25/2019	*01/25/19 22:03*	
Surrogate: Dibromofluoromethane	*99.2 %*	*56 - 167*		B9A0595	01/25/2019	*01/25/19 22:27*	
Surrogate: Dibromofluoromethane	*100 %*	*56 - 167*		B9A0595	01/25/2019	*01/25/19 22:03*	
Surrogate: Toluene-d8	*93.4 %*	*33 - 170*		B9A0595	01/25/2019	*01/25/19 22:03*	
Surrogate: Toluene-d8	*95.1 %*	*33 - 170*		B9A0595	01/25/2019	*01/25/19 22:27*	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Client Sample ID MW-29

Lab ID: 1900327-07

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**110**	2.0	1	B9A0687	01/29/2019	01/30/19 21:07	
Surrogate: 1,2-Dichlorobenzene-d4	*73.8 %*		*34 - 188*		B9A0687	01/29/2019	*01/30/19 21:07*	
Surrogate: 2-Fluorobiphenyl	*90.4 %*		*39 - 108*		B9A0687	01/29/2019	*01/30/19 21:07*	
Surrogate: 4-Terphenyl-d14	*126 %*		*71 - 131*		B9A0687	01/29/2019	*01/30/19 21:07*	
Surrogate: Nitrobenzene-d5	*87.4 %*		*32 - 106*		B9A0687	01/29/2019	*01/30/19 21:07*	

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San Diego , CA 92122	Reported : 02/01/2019

QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0595 - MSVOA_W										
Blank (B9A0595-BLK1)					Prepared: 1/25/2019 Analyzed: 1/25/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0595 - MSVOA_W (continued)										
Blank (B9A0595-BLK1) - Continued						Prepared: 1/25/2019 Analyzed: 1/25/2019				
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*26.43*			*25.0000*		*106*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*20.60*			*25.0000*		*82.4*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.53*			*25.0000*		*98.1*	*56 - 167*			
Surrogate: Toluene-d8	*23.09*			*25.0000*		*92.4*	*33 - 170*			
LCS (B9A0595-BS1)						Prepared: 1/25/2019 Analyzed: 1/25/2019				
1,1,1,2-Tetrachloroethane	11.9100	0.50	0.11	10.0000		119	80 - 137			
1,1,1-Trichloroethane	11.0300	0.50	0.18	10.0000		110	75 - 148			
1,1,2,2-Tetrachloroethane	10.4700	0.50	0.17	10.0000		105	64 - 118			
1,1,2-Trichloroethane	9.22000	0.50	0.12	10.0000		92.2	77 - 113			
1,1-Dichloroethane	11.1000	0.50	0.16	10.0000		111	72 - 131			
1,1-Dichloroethene	10.7300	0.50	0.09	10.0000		107	75 - 132			
1,1-Dichloropropene	11.2500	0.50	0.21	10.0000		112	84 - 141			
1,2,3-Trichloropropane	10.3900	0.50	0.16	10.0000		104	65 - 111			
1,2,3-Trichlorobenzene	10.2700	0.50	0.12	10.0000		103	79 - 117			
1,2,4-Trichlorobenzene	10.5800	0.50	0.12	10.0000		106	78 - 121			
1,2,4-Trimethylbenzene	11.4500	0.50	0.08	10.0000		114	83 - 125			
1,2-Dibromo-3-chloropropane	9.00000	0.50	0.24	10.0000		90.0	54 - 116			
1,2-Dibromoethane	8.52000	0.50	0.11	10.0000		85.2	79 - 118			
1,2-Dichlorobenzene	10.5100	0.50	0.09	10.0000		105	82 - 115			
1,2-Dichloroethane	10.6900	0.50	0.19	10.0000		107	76 - 115			
1,2-Dichloropropane	10.4400	0.50	0.36	10.0000		104	74 - 113			
1,3,5-Trimethylbenzene	11.1200	0.50	0.05	10.0000		111	83 - 126			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0595 - MSVOA_W (continued)										
LCS (B9A0595-BS1) - Continued					Prepared: 1/25/2019 Analyzed: 1/25/2019					
1,3-Dichlorobenzene	10.6800	0.50	0.10	10.0000		107	84 - 118			
1,3-Dichloropropane	10.6400	0.50	0.07	10.0000		106	72 - 116			
1,4-Dichlorobenzene	10.0800	0.50	0.07	10.0000		101	83 - 112			
2,2-Dichloropropane	10.8700	0.50	0.16	10.0000		109	72 - 150			
2-Chlorotoluene	10.5800	0.50	0.08	10.0000		106	82 - 120			
4-Chlorotoluene	11.0300	0.50	0.08	10.0000		110	81 - 121			
4-Isopropyltoluene	10.7600	0.50	0.06	10.0000		108	86 - 124			
Benzene	21.3100	0.50	0.03	20.0000		107	81 - 118			
Bromobenzene	11.2100	0.50	0.09	10.0000		112	82 - 117			
Bromodichloromethane	10.2900	0.50	0.14	10.0000		103	80 - 122			
Bromoform	9.63000	0.50	0.13	10.0000		96.3	53 - 145			
Bromomethane	13.0300	0.50	0.42	10.0000		130	30 - 204			
Carbon tetrachloride	11.7700	0.50	0.19	10.0000		118	77 - 157			
Chlorobenzene	10.8300	0.50	0.07	10.0000		108	86 - 113			
Chloroethane	8.67000	0.50	0.40	10.0000		86.7	70 - 160			
Chloroform	10.9600	0.50	0.17	10.0000		110	66 - 136			
Chloromethane	8.44000	0.50	0.08	10.0000		84.4	52 - 138			
cis-1,2-Dichloroethene	9.68000	0.50	0.13	10.0000		96.8	71 - 128			
cis-1,3-Dichloropropene	9.71000	0.50	0.05	10.0000		97.1	71 - 123			
Dibromochloromethane	11.0600	0.50	0.14	10.0000		111	78 - 140			
Dibromomethane	9.54000	0.50	0.10	10.0000		95.4	78 - 109			
Dichlorodifluoromethane	10.3000	0.50	0.10	10.0000		103	64 - 144			
Ethylbenzene	21.5100	0.50	0.07	20.0000		108	90 - 116			
Hexachlorobutadiene	11.2100	0.50	0.14	10.0000		112	81 - 129			
Isopropylbenzene	12.5700	0.50	0.05	10.0000		126	83 - 129			
m,p-Xylene	19.3900	1.0	0.08	20.0000		97.0	88 - 124			
Methylene chloride	7.23000	1.0	0.46	10.0000		72.3	76 - 137			L4
n-Butylbenzene	10.4800	0.50	0.05	10.0000		105	83 - 129			
n-Propylbenzene	10.6500	0.50	0.07	10.0000		106	85 - 124			
Naphthalene	8.81000	0.50	0.15	10.0000		88.1	67 - 113			
o-Xylene	20.1600	0.50	0.05	20.0000		101	82 - 129			
sec-Butylbenzene	10.2300	0.50	0.04	10.0000		102	86 - 127			
Styrene	9.11000	0.50	0.06	10.0000		91.1	83 - 122			
tert-Butylbenzene	10.7100	0.50	0.06	10.0000		107	84 - 130			
Tetrachloroethene	12.9600	0.50	0.07	10.0000		130	87 - 123			L4
Toluene	20.4400	0.50	0.07	20.0000		102	84 - 115			
trans-1,2-Dichloroethene	10.1100	0.50	0.11	10.0000		101	60 - 148			
Trichloroethene	11.0600	0.50	0.05	10.0000		111	79 - 129			
Trichlorofluoromethane	12.8600	0.50	0.14	10.0000		129	68 - 162			
Vinyl chloride	8.27000	0.50	0.05	10.0000		82.7	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*26.08*			*25.0000*		*104*	*57 - 152*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0595 - MSVOA_W (continued)										
LCS (B9A0595-BS1) - Continued					Prepared: 1/25/2019 Analyzed: 1/25/2019					
Surrogate: 4-Bromofluorobenzene	*21.78*			*25.0000*		*87.1*	*62 - 134*			
Surrogate: Dibromofluoromethan	*23.56*			*25.0000*		*94.2*	*56 - 167*			
Surrogate: Toluene-d8	*23.29*			*25.0000*		*93.2*	*33 - 170*			
LCS Dup (B9A0595-BSD1)					Prepared: 1/25/2019 Analyzed: 1/25/2019					
1,1,1,2-Tetrachloroethane	11.9800	0.50	0.11	10.0000		120	80 - 137	0.586	20	
1,1,1-Trichloroethane	10.8000	0.50	0.18	10.0000		108	75 - 148	2.11	20	
1,1,2,2-Tetrachloroethane	11.1100	0.50	0.17	10.0000		111	64 - 118	5.93	20	
1,1,2-Trichloroethane	9.85000	0.50	0.12	10.0000		98.5	77 - 113	6.61	20	
1,1-Dichloroethane	10.7900	0.50	0.16	10.0000		108	72 - 131	2.83	20	
1,1-Dichloroethene	10.2600	0.50	0.09	10.0000		103	75 - 132	4.48	20	
1,1-Dichloropropene	10.9600	0.50	0.21	10.0000		110	84 - 141	2.61	20	
1,2,3-Trichloropropane	11.1800	0.50	0.16	10.0000		112	65 - 111	7.32	20	L4
1,2,3-Trichlorobenzene	10.7500	0.50	0.12	10.0000		108	79 - 117	4.57	20	
1,2,4-Trichlorobenzene	10.6900	0.50	0.12	10.0000		107	78 - 121	1.03	20	
1,2,4-Trimethylbenzene	10.7000	0.50	0.08	10.0000		107	83 - 125	6.77	20	
1,2-Dibromo-3-chloropropane	10.0800	0.50	0.24	10.0000		101	54 - 116	11.3	20	
1,2-Dibromoethane	9.23000	0.50	0.11	10.0000		92.3	79 - 118	8.00	20	
1,2-Dichlorobenzene	10.4400	0.50	0.09	10.0000		104	82 - 115	0.668	20	
1,2-Dichloroethane	11.0500	0.50	0.19	10.0000		110	76 - 115	3.31	20	
1,2-Dichloropropane	10.3700	0.50	0.36	10.0000		104	74 - 113	0.673	20	
1,3,5-Trimethylbenzene	10.3300	0.50	0.05	10.0000		103	83 - 126	7.37	20	
1,3-Dichlorobenzene	10.2600	0.50	0.10	10.0000		103	84 - 118	4.01	20	
1,3-Dichloropropane	11.3000	0.50	0.07	10.0000		113	72 - 116	6.02	20	
1,4-Dichlorobenzene	9.79000	0.50	0.07	10.0000		97.9	83 - 112	2.92	20	
2,2-Dichloropropane	10.4300	0.50	0.16	10.0000		104	72 - 150	4.13	20	
2-Chlorotoluene	9.97000	0.50	0.08	10.0000		99.7	82 - 120	5.94	20	
4-Chlorotoluene	10.2800	0.50	0.08	10.0000		103	81 - 121	7.04	20	
4-Isopropyltoluene	9.98000	0.50	0.06	10.0000		99.8	86 - 124	7.52	20	
Benzene	20.6500	0.50	0.03	20.0000		103	81 - 118	3.15	20	
Bromobenzene	10.8200	0.50	0.09	10.0000		108	82 - 117	3.54	20	
Bromodichloromethane	10.3400	0.50	0.14	10.0000		103	80 - 122	0.485	20	
Bromoform	10.1200	0.50	0.13	10.0000		101	53 - 145	4.96	20	
Bromomethane	11.4600	0.50	0.42	10.0000		115	30 - 204	12.8	20	
Carbon tetrachloride	11.2500	0.50	0.19	10.0000		112	77 - 157	4.52	20	
Chlorobenzene	10.3900	0.50	0.07	10.0000		104	86 - 113	4.15	20	
Chloroethane	7.79000	0.50	0.40	10.0000		77.9	70 - 160	10.7	20	
Chloroform	10.9400	0.50	0.17	10.0000		109	66 - 136	0.183	20	
Chloromethane	8.15000	0.50	0.08	10.0000		81.5	52 - 138	3.50	20	
cis-1,2-Dichloroethene	9.67000	0.50	0.13	10.0000		96.7	71 - 128	0.103	20	
cis-1,3-Dichloropropene	9.99000	0.50	0.05	10.0000		99.9	71 - 123	2.84	20	
Dibromochloromethane	11.7400	0.50	0.14	10.0000		117	78 - 140	5.96	20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0595 - MSVOA_W (continued)										
LCS Dup (B9A0595-BSD1) - Continued					Prepared: 1/25/2019 Analyzed: 1/25/2019					
Dibromomethane	9.87000	0.50	0.10	10.0000		98.7	78 - 109	3.40	20	
Dichlorodifluoromethane	9.50000	0.50	0.10	10.0000		95.0	64 - 144	8.08	20	
Ethylbenzene	20.3500	0.50	0.07	20.0000		102	90 - 116	5.54	20	
Hexachlorobutadiene	10.4300	0.50	0.14	10.0000		104	81 - 129	7.21	20	
Isopropylbenzene	11.6800	0.50	0.05	10.0000		117	83 - 129	7.34	20	
m,p-Xylene	18.4000	1.0	0.08	20.0000		92.0	88 - 124	5.24	20	
Methylene chloride	6.83000	1.0	0.46	10.0000		68.3	76 - 137	5.69	20	L4
n-Butylbenzene	9.83000	0.50	0.05	10.0000		98.3	83 - 129	6.40	20	
n-Propylbenzene	9.88000	0.50	0.07	10.0000		98.8	85 - 124	7.50	20	
Naphthalene	9.81000	0.50	0.15	10.0000		98.1	67 - 113	10.7	20	
o-Xylene	19.1200	0.50	0.05	20.0000		95.6	82 - 129	5.30	20	
sec-Butylbenzene	9.59000	0.50	0.04	10.0000		95.9	86 - 127	6.46	20	
Styrene	8.81000	0.50	0.06	10.0000		88.1	83 - 122	3.35	20	
tert-Butylbenzene	10.0200	0.50	0.06	10.0000		100	84 - 130	6.66	20	
Tetrachloroethene	12.5200	0.50	0.07	10.0000		125	87 - 123	3.45	20	L4
Toluene	19.3600	0.50	0.07	20.0000		96.8	84 - 115	5.43	20	
trans-1,2-Dichloroethene	9.86000	0.50	0.11	10.0000		98.6	60 - 148	2.50	20	
Trichloroethene	10.7600	0.50	0.05	10.0000		108	79 - 129	2.75	20	
Trichlorofluoromethane	12.0400	0.50	0.14	10.0000		120	68 - 162	6.59	20	
Vinyl chloride	7.66000	0.50	0.05	10.0000		76.6	73 - 128	7.66	20	
Surrogate: 1,2-Dichloroethane-d4	*27.78*			*25.0000*		*111*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*22.42*			*25.0000*		*89.7*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.23*			*25.0000*		*96.9*	*56 - 167*			
Surrogate: Toluene-d8	*23.14*			*25.0000*		*92.6*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0687 - MSSEMI_W										
Blank (B9A0687-BLK1)						Prepared: 1/29/2019 Analyzed: 1/30/2019				
1,4-Dioxane	ND	2.0	0.84							
Surrogate: 1,2-Dichlorobenzene-d	*75.49*			*100.000*		*75.5*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*93.67*			*100.000*		*93.7*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*128.3*			*100.000*		*128*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*88.62*			*100.000*		*88.6*	*32 - 106*			
LCS (B9A0687-BS1)						Prepared: 1/29/2019 Analyzed: 1/30/2019				
1,4-Dioxane	129.360	2.0	0.84	100.000		129	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*53.66*			*100.000*		*53.7*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*68.64*			*100.000*		*68.6*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*86.23*			*100.000*		*86.2*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*68.28*			*100.000*		*68.3*	*32 - 106*			
LCS Dup (B9A0687-BSD1)						Prepared: 1/29/2019 Analyzed: 1/30/2019				
1,4-Dioxane	132.180	2.0	0.84	100.000		132	40 - 159	2.16	20	
Surrogate: 1,2-Dichlorobenzene-d	*71.24*			*100.000*		*71.2*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*91.01*			*100.000*		*91.0*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*111.3*			*100.000*		*111*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*89.79*			*100.000*		*89.8*	*32 - 106*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/01/2019

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9A0678 - MSSEMI_W										
Blank (B9A0678-BLK1)						Prepared: 1/29/2019 Analyzed: 1/29/2019				
1,4-Dioxane	ND	0.20	0.05							
Surrogate: 1,2-Dichlorobenzene-d	*0.5538*			*1.00000*		*55.4*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.9710*			*1.00000*		*97.1*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7196*			*1.00000*		*72.0*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*0.7932*			*1.00000*		*79.3*	*6 - 124*			
LCS (B9A0678-BS1)						Prepared: 1/29/2019 Analyzed: 1/29/2019				
1,4-Dioxane	1.04136	0.20	0.05	1.00000		104	64 - 129			
Surrogate: 1,2-Dichlorobenzene-d	*0.5930*			*1.00000*		*59.3*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.8559*			*1.00000*		*85.6*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7233*			*1.00000*		*72.3*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*0.7787*			*1.00000*		*77.9*	*6 - 124*			
LCS Dup (B9A0678-BSD1)						Prepared: 1/29/2019 Analyzed: 1/29/2019				
1,4-Dioxane	0.954400	0.20	0.05	1.00000		95.4	64 - 129	8.71	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.5768*			*1.00000*		*57.7*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*1.027*			*1.00000*		*103*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7430*			*1.00000*		*74.3*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*0.7635*			*1.00000*		*76.3*	*6 - 124*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/01/2019

Notes and Definitions

L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

HARGIS+ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 01/24/2019
Page 1 of 1

PROJECT: Raytheon Main GETS Mid Month Sample

TASK NO.: 532.15

Project Manager Steve Netto
QA Manager Ross Horton
Phone 858.455.6500
Fax 858.455.6533

Sampled By: Ross Horton

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Groundwater	MATRIX: Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	PRESERVATION: Nitric Acid (HNO_3)	PRESERVATION: Sulfuric Acid (H_2SO_4)	PRESERVATION: Ice	CONTAINERS: 40-ml VOA	CONTAINERS: 125 mL Poly	CONTAINERS: 250 mL Poly	CONTAINERS: 250 mL Glass	CONTAINERS: 1 L Poly	CONTAINERS: 1L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	Bromate by EPA 317	Bromide by EPA 300	Alkalinity by SM2320B	Total Organic Carbon by SM5310B	Total Suspended Solids by SM2540D	UV Absorption EPA 415.3 @254 nm	1,4-Dioxane by EPA 8270C MOD	1,4-Dioxane by EPA 8270C SIM	Expected Concentration Range (ppb) for: 0 - 10	10 - 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 Hour TAT	5 Day TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1900327-01	TB-012419	1/24/2019	8:00		X	X			X	2						X									X								
-02	CEFF	1/24/2019	14:30	X		X			X	3					1	X								X	X						X			
-03	CBT	1/24/2019	14:33	X		X			X	3					1	X								X	X						X			
-04	POX	1/24/2019	14:37	X		X			X	3					1	X								X	X						X			
-05	INF	1/24/2019	14:41	X		X			X	3					1	X							X				X				X			
-06	EW-02	1/24/2019	15:05	X		X			X	3					1	X							X			X					X			
-07	MW-29	1/24/2019	15:25	X		X			X	3					1	X							X				X				X			
Total number of containers per analysis:										20					6																			

Total No. of Containers: 26

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
R Horton H+A	1/24/19 15:30	[illegible]	1/24/18 1530
Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
[illegible] H+A	1/24/19 16:53	Stephen Bircher	01/24/19 16:53

- ✓ No. of containers correct
- ✓ Received in good condition
- Custody seals secure
- ✓ Conforms to COC document

1.0 ice Temperature on receipt

Laboratory

Adcanced Technology Laboratories
Attn: Rachelle Arada
3275 Walnut Ave
Signal Hill, CA 90755
(562) 989-4045

Send Results to:
Steve Netto & Ross Horton
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.6500
snetto@hargis.com
rhorton@hargis.com

Instructions

1. Fill out form completely and sign only after verified for completeness
2. Complete in ballpoint pen. Draw one line through error, initial and date correction
   Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
   Note applicable preservatives, special instructions, and deviations from typical environmental samples.
   Consult project QA documents for specific instructions.

ADVANCED TECHNOLOGY LABORATORIES

February 22, 2019

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

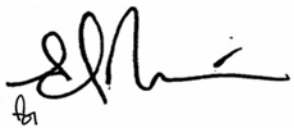
ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1900539
Client Reference : Raytheon Main GETS Monthly Sample, 532.15

Enclosed are the results for sample(s) received on February 07, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-020719	1900539-01	Lab prepared water	2/07/19 8:00	2/07/19 17:00
CEFF	1900539-02	Groundwater	2/07/19 13:17	2/07/19 17:00
CBT	1900539-03	Groundwater	2/07/19 13:20	2/07/19 17:00
POX	1900539-04	Groundwater	2/07/19 13:22	2/07/19 17:00
PF	1900539-05	Groundwater	2/07/19 13:30	2/07/19 17:00
INF	1900539-06	Groundwater	2/07/19 13:33	2/07/19 17:00
EW-02	1900539-07	Groundwater	2/07/19 14:02	2/07/19 17:00
MW-29	1900539-08	Groundwater	2/07/19 14:21	2/07/19 17:00

CASE NARRATIVE

The samples for Bromate by IC-MS/MS analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Sample Receiving/General Comments:

The following analytes lists were taken from sample containers: Alkalinity - Hydroxide, Bicarbonate, Carbonate, and Total.

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID TB-020719

Lab ID: 1900539-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,1,1-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,1,2-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,1-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,1-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,1-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,2,3-Trichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,2-Dibromoethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,2-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,2-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,3-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,3-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
1,4-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
2,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
2-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
4-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
4-Isopropyltoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Benzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Bromobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Bromodichloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Bromoform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Bromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Carbon tetrachloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Chlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Chloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Chloroform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Chloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Dibromochloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID TB-020719

Lab ID: 1900539-01

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Dichlorodifluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Ethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Hexachlorobutadiene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Isopropylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
m,p-Xylene	ND	1.0	1	B9B0285	02/12/2019	02/12/19 13:20	
Methylene chloride	ND	1.0	1	B9B0285	02/12/2019	02/12/19 13:20	
n-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
n-Propylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Naphthalene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
o-Xylene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
sec-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Styrene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
tert-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Tetrachloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Toluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Trichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Trichlorofluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Vinyl chloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:20	
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*57 - 152*		B9B0285	02/12/2019	*02/12/19 13:20*	
Surrogate: 4-Bromofluorobenzene	*103 %*	*62 - 134*		B9B0285	02/12/2019	*02/12/19 13:20*	
Surrogate: Dibromofluoromethane	*109 %*	*56 - 167*		B9B0285	02/12/2019	*02/12/19 13:20*	
Surrogate: Toluene-d8	*102 %*	*33 - 170*		B9B0285	02/12/2019	*02/12/19 13:20*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID CEFF

Lab ID: 1900539-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,1,1-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,1,2-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,1-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,1-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,1-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,2,3-Trichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,2-Dibromoethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,2-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,2-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,3-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,3-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
1,4-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
2,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
2-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
4-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
4-Isopropyltoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Benzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Bromobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Bromodichloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Bromoform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Bromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Carbon tetrachloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Chlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Chloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Chloroform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Chloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Dibromochloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID CEFF

Lab ID: 1900539-02

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Dichlorodifluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Ethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Hexachlorobutadiene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Isopropylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
m,p-Xylene	ND	1.0	1	B9B0285	02/12/2019	02/12/19 13:44	
Methylene chloride	ND	1.0	1	B9B0285	02/12/2019	02/12/19 13:44	
n-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
n-Propylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Naphthalene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
o-Xylene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
sec-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Styrene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
tert-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Tetrachloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Toluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Trichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Trichlorofluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Vinyl chloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 13:44	
Surrogate: 1,2-Dichloroethane-d4	*111 %*	*57 - 152*		B9B0285	02/12/2019	*02/12/19 13:44*	
Surrogate: 4-Bromofluorobenzene	*100 %*	*62 - 134*		B9B0285	02/12/2019	*02/12/19 13:44*	
Surrogate: Dibromofluoromethane	*109 %*	*56 - 167*		B9B0285	02/12/2019	*02/12/19 13:44*	
Surrogate: Toluene-d8	*101 %*	*33 - 170*		B9B0285	02/12/2019	*02/12/19 13:44*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID CEFF

Lab ID: 1900539-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0267	02/11/2019	02/11/19 14:42	
Surrogate: 1,2-Dichlorobenzene-d4	*66.5 %*		*22 - 117*		B9B0267	02/11/2019	*02/11/19 14:42*	
Surrogate: 2-Fluorobiphenyl	*63.1 %*		*20 - 131*		B9B0267	02/11/2019	*02/11/19 14:42*	
Surrogate: 4-Terphenyl-d14	*95.1 %*		*24 - 135*		B9B0267	02/11/2019	*02/11/19 14:42*	
Surrogate: Nitrobenzene-d5	*96.5 %*		*6 - 124*		B9B0267	02/11/2019	*02/11/19 14:42*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID CBT

Lab ID: 1900539-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,1,1-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,1,2-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,1-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,1-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,1-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,2,3-Trichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,2-Dibromoethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,2-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,2-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,3-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,3-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
1,4-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
2,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
2-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
4-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
4-Isopropyltoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Benzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Bromobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Bromodichloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Bromoform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Bromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Carbon tetrachloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Chlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Chloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Chloroform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Chloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Dibromochloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID CBT

Lab ID: 1900539-03

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Dichlorodifluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Ethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Hexachlorobutadiene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Isopropylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
m,p-Xylene	ND	1.0	1	B9B0285	02/12/2019	02/12/19 14:08	
Methylene chloride	ND	1.0	1	B9B0285	02/12/2019	02/12/19 14:08	
n-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
n-Propylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Naphthalene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
o-Xylene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
sec-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Styrene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
tert-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Tetrachloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Toluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Trichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Trichlorofluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Vinyl chloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:08	
Surrogate: 1,2-Dichloroethane-d4	*113 %*	*57 - 152*		B9B0285	02/12/2019	*02/12/19 14:08*	
Surrogate: 4-Bromofluorobenzene	*103 %*	*62 - 134*		B9B0285	02/12/2019	*02/12/19 14:08*	
Surrogate: Dibromofluoromethane	*111 %*	*56 - 167*		B9B0285	02/12/2019	*02/12/19 14:08*	
Surrogate: Toluene-d8	*102 %*	*33 - 170*		B9B0285	02/12/2019	*02/12/19 14:08*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID CBT

Lab ID: 1900539-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0267	02/11/2019	02/11/19 15:09	
Surrogate: 1,2-Dichlorobenzene-d4	*66.1 %*		*22 - 117*		B9B0267	02/11/2019	*02/11/19 15:09*	
Surrogate: 2-Fluorobiphenyl	*60.8 %*		*20 - 131*		B9B0267	02/11/2019	*02/11/19 15:09*	
Surrogate: 4-Terphenyl-d14	*87.3 %*		*24 - 135*		B9B0267	02/11/2019	*02/11/19 15:09*	
Surrogate: Nitrobenzene-d5	*97.8 %*		*6 - 124*		B9B0267	02/11/2019	*02/11/19 15:09*	

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San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID POX

Lab ID: 1900539-04

Alkalinity, Speciated by SM 2320B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Alkalinity, Bicarbonate (as CaCO3)	**210**	5.0	1	B9B0323	02/13/2019	02/13/19 11:12	
Alkalinity, Carbonate (as CaCO3)	ND	5.0	1	B9B0323	02/13/2019	02/13/19 11:12	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	1	B9B0323	02/13/2019	02/13/19 11:12	
Alkalinity, Total (as CaCO3)	**210**	5.0	1	B9B0323	02/13/2019	02/13/19 11:12	

Total Organic Carbon by SM 5310B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	1	B9B0264	02/11/2019	02/11/19 16:49	

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,1,1-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,1,2-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,1-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,1-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,1-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,2,3-Trichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,2-Dibromoethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,2-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,2-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,3-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,3-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
1,4-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
2,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
2-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID POX

Lab ID: 1900539-04

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
4-Isopropyltoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Benzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Bromobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Bromodichloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Bromoform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Bromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Carbon tetrachloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Chlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Chloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Chloroform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Chloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Dibromochloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Dibromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Dichlorodifluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Ethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Hexachlorobutadiene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Isopropylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
m,p-Xylene	ND	1.0	1	B9B0285	02/12/2019	02/12/19 14:33	
Methylene chloride	ND	1.0	1	B9B0285	02/12/2019	02/12/19 14:33	
n-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
n-Propylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Naphthalene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
o-Xylene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
sec-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Styrene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
tert-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Tetrachloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Toluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Trichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Trichlorofluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Vinyl chloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:33	
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*57 - 152*		B9B0285	02/12/2019	*02/12/19 14:33*	
Surrogate: 4-Bromofluorobenzene	*105 %*	*62 - 134*		B9B0285	02/12/2019	*02/12/19 14:33*	

Certificate of Analysis

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San Diego , CA 92122		Reported :	02/22/2019

Client Sample ID POX

Lab ID: 1900539-04

Volatile Organic Compounds by EPA 8260B — **Analyst: QP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Dibromofluoromethane	*111 %*		*56 - 167*		B9B0285	02/12/2019	*02/12/19 14:33*	
Surrogate: Toluene-d8	*105 %*		*33 - 170*		B9B0285	02/12/2019	*02/12/19 14:33*	

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique — **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0267	02/11/2019	02/11/19 15:36	
Surrogate: 1,2-Dichlorobenzene-d4	*72.6 %*		*22 - 117*		B9B0267	02/11/2019	*02/11/19 15:36*	
Surrogate: 2-Fluorobiphenyl	*62.6 %*		*20 - 131*		B9B0267	02/11/2019	*02/11/19 15:36*	
Surrogate: 4-Terphenyl-d14	*97.0 %*		*24 - 135*		B9B0267	02/11/2019	*02/11/19 15:36*	
Surrogate: Nitrobenzene-d5	*107 %*		*6 - 124*		B9B0267	02/11/2019	*02/11/19 15:36*	

Certificate of Analysis

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Client Sample ID PF

Lab ID: 1900539-05

UV Absorption by EPA 415.3

Analyst: BL

Analyte	Result (1/cm)	PQL (1/cm)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
UV Absorption	ND	0.01	1	B9B0215	02/08/2019	02/08/19 09:20	

Alkalinity, Speciated by SM 2320B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Alkalinity, Bicarbonate (as CaCO3)	**210**	5.0	1	B9B0323	02/13/2019	02/13/19 11:12	
Alkalinity, Carbonate (as CaCO3)	ND	5.0	1	B9B0323	02/13/2019	02/13/19 11:12	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	1	B9B0323	02/13/2019	02/13/19 11:12	
Alkalinity, Total (as CaCO3)	**210**	5.0	1	B9B0323	02/13/2019	02/13/19 11:12	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D

Analyst: VQ

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	1.0	1	B9B0344	02/13/2019	02/14/19 10:30	

Total Organic Carbon by SM 5310B

Analyst: JL

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	1	B9B0264	02/11/2019	02/11/19 17:08	

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Lab ID: 1900539-06

Bromide by Ion Chromatography EPA 300 — **Analyst: JL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.29**	0.10	2	B9B0250	02/08/2019	02/08/19 12:12	

Volatile Organic Compounds by EPA 8260B — **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,1,1-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,1,2-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,1-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,1-Dichloroethene	**44**	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,1-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,2,3-Trichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,2-Dibromoethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,2-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,2-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,3-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,3-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
1,4-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
2,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
2-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
4-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
4-Isopropyltoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Benzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Bromobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Bromodichloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Bromoform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Bromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Carbon tetrachloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Chlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	

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Lab ID: 1900539-06

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Chloroform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Chloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Dibromochloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Dibromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Dichlorodifluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Ethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Hexachlorobutadiene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Isopropylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
m,p-Xylene	ND	1.0	1	B9B0285	02/12/2019	02/12/19 14:57	
Methylene chloride	ND	1.0	1	B9B0285	02/12/2019	02/12/19 14:57	
n-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
n-Propylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Naphthalene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
o-Xylene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
sec-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Styrene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
tert-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Tetrachloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Toluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Trichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Trichlorofluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Vinyl chloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 14:57	
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*57 - 152*		B9B0285	02/12/2019	*02/12/19 14:57*	
Surrogate: 4-Bromofluorobenzene	*103 %*	*62 - 134*		B9B0285	02/12/2019	*02/12/19 14:57*	
Surrogate: Dibromofluoromethane	*111 %*	*56 - 167*		B9B0285	02/12/2019	*02/12/19 14:57*	
Surrogate: Toluene-d8	*103 %*	*33 - 170*		B9B0285	02/12/2019	*02/12/19 14:57*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID INF

Lab ID: 1900539-06

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**23**	2.0	1	B9B0246	02/08/2019	02/08/19 18:17	
Surrogate: 1,2-Dichlorobenzene-d4	*60.0 %*		*34 - 188*		B9B0246	02/08/2019	*02/08/19 18:17*	
Surrogate: 2-Fluorobiphenyl	*65.5 %*		*39 - 108*		B9B0246	02/08/2019	*02/08/19 18:17*	
Surrogate: 4-Terphenyl-d14	*114 %*		*71 - 131*		B9B0246	02/08/2019	*02/08/19 18:17*	
Surrogate: Nitrobenzene-d5	*66.6 %*		*32 - 106*		B9B0246	02/08/2019	*02/08/19 18:17*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID EW-02

Lab ID: 1900539-07

Bromide by Ion Chromatography EPA 300 — **Analyst: JL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.24**	0.10	2	B9B0250	02/08/2019	02/08/19 12:23	

Volatile Organic Compounds by EPA 8260B — **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,1,1-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,1,2-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,1-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,1-Dichloroethene	**8.8**	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,1-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,2,3-Trichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,2-Dibromoethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,2-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,2-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,3-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,3-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
1,4-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
2,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
2-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
4-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
4-Isopropyltoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Benzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Bromobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Bromodichloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Bromoform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Bromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Carbon tetrachloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Chlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID EW-02

Lab ID: 1900539-07

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Chloroform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Chloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Dibromochloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Dibromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Dichlorodifluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Ethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Hexachlorobutadiene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Isopropylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
m,p-Xylene	ND	1.0	1	B9B0285	02/12/2019	02/12/19 15:21	
Methylene chloride	ND	1.0	1	B9B0285	02/12/2019	02/12/19 15:21	
n-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
n-Propylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Naphthalene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
o-Xylene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
sec-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Styrene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
tert-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Tetrachloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Toluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Trichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Trichlorofluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Vinyl chloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 15:21	
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*57 - 152*		B9B0285	02/12/2019	*02/12/19 15:21*	
Surrogate: 4-Bromofluorobenzene	*101 %*	*62 - 134*		B9B0285	02/12/2019	*02/12/19 15:21*	
Surrogate: Dibromofluoromethane	*111 %*	*56 - 167*		B9B0285	02/12/2019	*02/12/19 15:21*	
Surrogate: Toluene-d8	*102 %*	*33 - 170*		B9B0285	02/12/2019	*02/12/19 15:21*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID EW-02

Lab ID: 1900539-07

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	2.0	1	B9B0246	02/08/2019	02/08/19 18:42	
Surrogate: 1,2-Dichlorobenzene-d4	*83.3 %*		*34 - 188*		B9B0246	02/08/2019	*02/08/19 18:42*	
Surrogate: 2-Fluorobiphenyl	*93.4 %*		*39 - 108*		B9B0246	02/08/2019	*02/08/19 18:42*	
Surrogate: 4-Terphenyl-d14	*132 %*		*71 - 131*		B9B0246	02/08/2019	*02/08/19 18:42*	S5
Surrogate: Nitrobenzene-d5	*92.6 %*		*32 - 106*		B9B0246	02/08/2019	*02/08/19 18:42*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-29

Lab ID: 1900539-08

Bromide by Ion Chromatography EPA 300 — **Analyst: JL**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.43**	0.10	2	B9B0250	02/08/2019	02/08/19 12:34	

Volatile Organic Compounds by EPA 8260B — **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,1,1-Trichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,1,2-Trichloroethane	**0.62**	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,1-Dichloroethane	**1.7**	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,1-Dichloroethene	**150**	5.0	10	B9B0285	02/12/2019	02/12/19 19:49	
1,1-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,2,3-Trichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,2-Dibromoethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,2-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,2-Dichloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,3-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,3-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
1,4-Dichlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
2,2-Dichloropropane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
2-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
4-Chlorotoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
4-Isopropyltoluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Benzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Bromobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Bromodichloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Bromoform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Bromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Carbon tetrachloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Chlorobenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-29

Lab ID: 1900539-08

Volatile Organic Compounds by EPA 8260B **Analyst: QP**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloroethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Chloroform	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Chloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Dibromochloromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Dibromomethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Dichlorodifluoromethane	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Ethylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Hexachlorobutadiene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Isopropylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
m,p-Xylene	ND	1.0	1	B9B0285	02/12/2019	02/12/19 19:25	
Methylene chloride	ND	1.0	1	B9B0285	02/12/2019	02/12/19 19:25	
n-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
n-Propylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Naphthalene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
o-Xylene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
sec-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Styrene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
tert-Butylbenzene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Tetrachloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Toluene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Trichloroethene	**1.7**	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Trichlorofluoromethane	**0.72**	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Vinyl chloride	ND	0.50	1	B9B0285	02/12/2019	02/12/19 19:25	
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*57 - 152*		B9B0285	02/12/2019	*02/12/19 19:49*	
Surrogate: 1,2-Dichloroethane-d4	*118 %*	*57 - 152*		B9B0285	02/12/2019	*02/12/19 19:25*	
Surrogate: 4-Bromofluorobenzene	*102 %*	*62 - 134*		B9B0285	02/12/2019	*02/12/19 19:49*	
Surrogate: 4-Bromofluorobenzene	*102 %*	*62 - 134*		B9B0285	02/12/2019	*02/12/19 19:25*	
Surrogate: Dibromofluoromethane	*110 %*	*56 - 167*		B9B0285	02/12/2019	*02/12/19 19:49*	
Surrogate: Dibromofluoromethane	*113 %*	*56 - 167*		B9B0285	02/12/2019	*02/12/19 19:25*	
Surrogate: Toluene-d8	*102 %*	*33 - 170*		B9B0285	02/12/2019	*02/12/19 19:25*	
Surrogate: Toluene-d8	*102 %*	*33 - 170*		B9B0285	02/12/2019	*02/12/19 19:49*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Client Sample ID MW-29

Lab ID: 1900539-08

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**93**	2.0	1	B9B0246	02/08/2019	02/08/19 19:08	
Surrogate: 1,2-Dichlorobenzene-d4	*83.9 %*		*34 - 188*		B9B0246	02/08/2019	*02/08/19 19:08*	
Surrogate: 2-Fluorobiphenyl	*93.9 %*		*39 - 108*		B9B0246	02/08/2019	*02/08/19 19:08*	
Surrogate: 4-Terphenyl-d14	*138 %*		*71 - 131*		B9B0246	02/08/2019	*02/08/19 19:08*	S5
Surrogate: Nitrobenzene-d5	*94.2 %*		*32 - 106*		B9B0246	02/08/2019	*02/08/19 19:08*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

QUALITY CONTROL SECTION

Alkalinity, Speciated by SM 2320B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0323 - No_Prep_WC1_W										
Blank (B9B0323-BLK1)					Prepared: 2/13/2019 Analyzed: 2/13/2019					
Alkalinity, Bicarbonate (as CaCO3)	ND	5.0	3.4							
Alkalinity, Carbonate (as CaCO3)	ND	5.0	3.4							
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	3.4							
Alkalinity, Total (as CaCO3)	ND	5.0	3.4							
LCS (B9B0323-BS1)					Prepared: 2/13/2019 Analyzed: 2/13/2019					
Alkalinity, Total (as CaCO3)	99.7900	5.0	3.4	99.9580		99.8	80 - 120			
Matrix Spike (B9B0323-MS1)			**Source: 1900539-04**		Prepared: 2/13/2019 Analyzed: 2/13/2019					
Alkalinity, Total (as CaCO3)	304.530	5.0	3.4	99.9580	207.820	96.8	80 - 120			
Matrix Spike Dup (B9B0323-MSD1)			**Source: 1900539-04**		Prepared: 2/13/2019 Analyzed: 2/13/2019					
Alkalinity, Total (as CaCO3)	306.580	5.0	3.4	99.9580	207.820	98.8	80 - 120	0.671	20	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
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San Diego , CA 92122	Reported : 02/22/2019

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0344 - No_Prep_WC1_W										
Blank (B9B0344-BLK1)					Prepared: 2/13/2019 Analyzed: 2/14/2019					
Residue, Suspended	ND	1.0	1.0							
LCS (B9B0344-BS1)					Prepared: 2/13/2019 Analyzed: 2/14/2019					
Residue, Suspended	81.0000	10	10	93.4000		86.7	80 - 120			
Duplicate (B9B0344-DUP1)			**Source: 1900537-03**		Prepared: 2/13/2019 Analyzed: 2/14/2019					
Residue, Suspended	72.0000	10	10		70.0000			2.82	10	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

Bromide by Ion Chromatography EPA 300 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0250 - No_Prep_IC1_W										
Blank (B9B0250-BLK1)					Prepared: 2/8/2019 Analyzed: 2/8/2019					
Bromide	ND	0.05	0.02							
LCS (B9B0250-BS1)					Prepared: 2/8/2019 Analyzed: 2/8/2019					
Bromide	1.00330	0.05	0.02	1.00000		100	90 - 110			
Duplicate (B9B0250-DUP1)			**Source: 1900507-01**		Prepared: 2/8/2019 Analyzed: 2/8/2019					
Bromide	216.400	100	32		202.400			6.69	20	
Matrix Spike (B9B0250-MS1)			**Source: 1900507-01**		Prepared: 2/8/2019 Analyzed: 2/8/2019					
Bromide	5391.00	100	32	5000.00	202.400	104	80 - 120			
Matrix Spike Dup (B9B0250-MSD1)			**Source: 1900507-01**		Prepared: 2/8/2019 Analyzed: 2/8/2019					
Bromide	5803.80	100	32	5000.00	202.400	112	80 - 120	7.37	20	

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UV Absorption by EPA 415.3 - Quality Control

Analyte	Result (1/cm)	PQL (1/cm)	MDL (1/cm)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0215 - No_Prep_II_W										
Duplicate (B9B0215-DUP1)			**Source: 1900539-05**		Prepared: 2/8/2019 Analyzed: 2/8/2019					
UV Absorption	ND	0.01	0.01		ND			NR	20	

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Total Organic Carbon by SM 5310B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0264 - No_Prep_II_W										
Blank (B9B0264-BLK1)					Prepared: 2/11/2019 Analyzed: 2/11/2019					
Organic Carbon, Total	ND	3.0	0.28							
LCS (B9B0264-BS1)					Prepared: 2/11/2019 Analyzed: 2/11/2019					
Organic Carbon, Total	19.7800	3.0	0.28	20.0200		98.8	80 - 120			
LCS Dup (B9B0264-BSD1)					Prepared: 2/11/2019 Analyzed: 2/11/2019					
Organic Carbon, Total	19.2000	3.0	0.28	20.0200		95.9	80 - 120	2.98	20	
Matrix Spike (B9B0264-MS1)			**Source: 1900509-06**		Prepared: 2/11/2019 Analyzed: 2/11/2019					
Organic Carbon, Total	15.1000	3.0	0.28	20.0000	ND	75.5	80 - 120			M1
Matrix Spike Dup (B9B0264-MSD1)			**Source: 1900509-06**		Prepared: 2/11/2019 Analyzed: 2/11/2019					
Organic Carbon, Total	18.2100	3.0	0.28	20.0000	ND	91.0	80 - 120	18.7	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0285 - MSVOA_W										
Blank (B9B0285-BLK1)					Prepared: 2/12/2019 Analyzed: 2/12/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0285 - MSVOA_W (continued)										
Blank (B9B0285-BLK1) - Continued					Prepared: 2/12/2019 Analyzed: 2/12/2019					
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*27.09*			*25.0000*		*108*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*25.77*			*25.0000*		*103*	*62 - 134*			
Surrogate: Dibromofluoromethan	*27.17*			*25.0000*		*109*	*56 - 167*			
Surrogate: Toluene-d8	*25.63*			*25.0000*		*103*	*33 - 170*			
LCS (B9B0285-BS1)					Prepared: 2/12/2019 Analyzed: 2/12/2019					
1,1,1,2-Tetrachloroethane	18.8000	0.50	0.11	20.0000		94.0	80 - 137			
1,1,1-Trichloroethane	17.8300	0.50	0.18	20.0000		89.2	75 - 148			
1,1,2,2-Tetrachloroethane	18.1800	0.50	0.17	20.0000		90.9	64 - 118			
1,1,2-Trichloroethane	20.3700	0.50	0.12	20.0000		102	77 - 113			
1,1-Dichloroethane	21.6700	0.50	0.16	20.0000		108	72 - 131			
1,1-Dichloroethene	22.7500	0.50	0.09	20.0000		114	75 - 132			
1,1-Dichloropropene	19.2600	0.50	0.21	20.0000		96.3	84 - 141			
1,2,3-Trichloropropane	18.6800	0.50	0.16	20.0000		93.4	65 - 111			
1,2,3-Trichlorobenzene	20.5000	0.50	0.12	20.0000		102	79 - 117			
1,2,4-Trichlorobenzene	20.3700	0.50	0.12	20.0000		102	78 - 121			
1,2,4-Trimethylbenzene	19.9900	0.50	0.08	20.0000		100	83 - 125			
1,2-Dibromo-3-chloropropane	21.1700	0.50	0.24	20.0000		106	54 - 116			
1,2-Dibromoethane	20.9800	0.50	0.11	20.0000		105	79 - 118			
1,2-Dichlorobenzene	20.0700	0.50	0.09	20.0000		100	82 - 115			
1,2-Dichloroethane	20.8300	0.50	0.19	20.0000		104	76 - 115			
1,2-Dichloropropane	18.5600	0.50	0.36	20.0000		92.8	74 - 113			
1,3,5-Trimethylbenzene	20.2900	0.50	0.05	20.0000		101	83 - 126			
1,3-Dichlorobenzene	19.6500	0.50	0.10	20.0000		98.2	84 - 118			
1,3-Dichloropropane	18.1200	0.50	0.07	20.0000		90.6	72 - 116			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0285 - MSVOA_W (continued)										
LCS (B9B0285-BS1) - Continued					Prepared: 2/12/2019 Analyzed: 2/12/2019					
1,4-Dichlorobenzene	19.4800	0.50	0.07	20.0000		97.4	83 - 112			
2,2-Dichloropropane	19.2600	0.50	0.16	20.0000		96.3	72 - 150			
2-Chlorotoluene	19.3500	0.50	0.08	20.0000		96.8	82 - 120			
4-Chlorotoluene	19.6400	0.50	0.08	20.0000		98.2	81 - 121			
4-Isopropyltoluene	20.5300	0.50	0.06	20.0000		103	86 - 124			
Benzene	38.0500	0.50	0.03	40.0000		95.1	81 - 118			
Bromobenzene	18.8300	0.50	0.09	20.0000		94.2	82 - 117			
Bromodichloromethane	18.6900	0.50	0.14	20.0000		93.4	80 - 122			
Bromoform	20.4600	0.50	0.13	20.0000		102	53 - 145			
Bromomethane	20.2800	0.50	0.42	20.0000		101	30 - 204			
Carbon tetrachloride	19.1700	0.50	0.19	20.0000		95.8	77 - 157			
Chlorobenzene	19.4400	0.50	0.07	20.0000		97.2	86 - 113			
Chloroethane	20.2000	0.50	0.40	20.0000		101	70 - 160			
Chloroform	20.3700	0.50	0.17	20.0000		102	66 - 136			
Chloromethane	20.8900	0.50	0.08	20.0000		104	52 - 138			
cis-1,2-Dichloroethene	21.2000	0.50	0.13	20.0000		106	71 - 128			
cis-1,3-Dichloropropene	22.1300	0.50	0.05	20.0000		111	71 - 123			
Dibromochloromethane	18.5600	0.50	0.14	20.0000		92.8	78 - 140			
Dibromomethane	21.0900	0.50	0.10	20.0000		105	78 - 109			
Dichlorodifluoromethane	21.2200	0.50	0.10	20.0000		106	64 - 144			
Ethylbenzene	38.9100	0.50	0.07	40.0000		97.3	90 - 116			
Hexachlorobutadiene	20.1200	0.50	0.14	20.0000		101	81 - 129			
Isopropylbenzene	20.7700	0.50	0.05	20.0000		104	83 - 129			
m,p-Xylene	42.7000	1.0	0.08	40.0000		107	88 - 124			
Methylene chloride	21.2200	1.0	0.46	20.0000		106	76 - 137			
n-Butylbenzene	20.2200	0.50	0.05	20.0000		101	83 - 129			
n-Propylbenzene	19.6000	0.50	0.07	20.0000		98.0	85 - 124			
Naphthalene	20.4300	0.50	0.15	20.0000		102	67 - 113			
o-Xylene	42.8400	0.50	0.05	40.0000		107	82 - 129			
sec-Butylbenzene	20.2100	0.50	0.04	20.0000		101	86 - 127			
Styrene	21.9100	0.50	0.06	20.0000		110	83 - 122			
tert-Butylbenzene	20.3500	0.50	0.06	20.0000		102	84 - 130			
Tetrachloroethene	18.5400	0.50	0.07	20.0000		92.7	87 - 123			
Toluene	41.9800	0.50	0.07	40.0000		105	84 - 115			
trans-1,2-Dichloroethene	20.7600	0.50	0.11	20.0000		104	60 - 148			
Trichloroethene	18.3900	0.50	0.05	20.0000		92.0	79 - 129			
Trichlorofluoromethane	21.7600	0.50	0.14	20.0000		109	68 - 162			
Vinyl chloride	20.7800	0.50	0.05	20.0000		104	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*27.25*			*25.0000*		*109*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.69*			*25.0000*		*111*	*62 - 134*			
Surrogate: Dibromofluoromethan	*28.36*			*25.0000*		*113*	*56 - 167*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0285 - MSVOA_W (continued)										
LCS (B9B0285-BS1) - Continued					Prepared: 2/12/2019 Analyzed: 2/12/2019					
Surrogate: Toluene-d8	*27.08*			*25.0000*		*108*	*33 - 170*			
LCS Dup (B9B0285-BSD1)					Prepared: 2/12/2019 Analyzed: 2/12/2019					
1,1,1,2-Tetrachloroethane	18.8600	0.50	0.11	20.0000		94.3	80 - 137	0.319	20	
1,1,1-Trichloroethane	18.0200	0.50	0.18	20.0000		90.1	75 - 148	1.06	20	
1,1,2,2-Tetrachloroethane	18.3100	0.50	0.17	20.0000		91.6	64 - 118	0.713	20	
1,1,2-Trichloroethane	20.2700	0.50	0.12	20.0000		101	77 - 113	0.492	20	
1,1-Dichloroethane	21.6200	0.50	0.16	20.0000		108	72 - 131	0.231	20	
1,1-Dichloroethene	22.4300	0.50	0.09	20.0000		112	75 - 132	1.42	20	
1,1-Dichloropropene	19.3700	0.50	0.21	20.0000		96.8	84 - 141	0.570	20	
1,2,3-Trichloropropane	18.7000	0.50	0.16	20.0000		93.5	65 - 111	0.107	20	
1,2,3-Trichlorobenzene	20.0400	0.50	0.12	20.0000		100	79 - 117	2.27	20	
1,2,4-Trichlorobenzene	20.2800	0.50	0.12	20.0000		101	78 - 121	0.443	20	
1,2,4-Trimethylbenzene	19.9000	0.50	0.08	20.0000		99.5	83 - 125	0.451	20	
1,2-Dibromo-3-chloropropane	21.1800	0.50	0.24	20.0000		106	54 - 116	0.0472	20	
1,2-Dibromoethane	21.1200	0.50	0.11	20.0000		106	79 - 118	0.665	20	
1,2-Dichlorobenzene	19.9600	0.50	0.09	20.0000		99.8	82 - 115	0.550	20	
1,2-Dichloroethane	20.7600	0.50	0.19	20.0000		104	76 - 115	0.337	20	
1,2-Dichloropropane	18.6100	0.50	0.36	20.0000		93.0	74 - 113	0.269	20	
1,3,5-Trimethylbenzene	20.2100	0.50	0.05	20.0000		101	83 - 126	0.395	20	
1,3-Dichlorobenzene	19.4000	0.50	0.10	20.0000		97.0	84 - 118	1.28	20	
1,3-Dichloropropane	18.3600	0.50	0.07	20.0000		91.8	72 - 116	1.32	20	
1,4-Dichlorobenzene	19.4200	0.50	0.07	20.0000		97.1	83 - 112	0.308	20	
2,2-Dichloropropane	18.8900	0.50	0.16	20.0000		94.4	72 - 150	1.94	20	
2-Chlorotoluene	19.2300	0.50	0.08	20.0000		96.2	82 - 120	0.622	20	
4-Chlorotoluene	19.5900	0.50	0.08	20.0000		98.0	81 - 121	0.255	20	
4-Isopropyltoluene	20.4800	0.50	0.06	20.0000		102	86 - 124	0.244	20	
Benzene	37.7200	0.50	0.03	40.0000		94.3	81 - 118	0.871	20	
Bromobenzene	18.8500	0.50	0.09	20.0000		94.2	82 - 117	0.106	20	
Bromodichloromethane	18.7500	0.50	0.14	20.0000		93.8	80 - 122	0.321	20	
Bromoform	20.3200	0.50	0.13	20.0000		102	53 - 145	0.687	20	
Bromomethane	20.4700	0.50	0.42	20.0000		102	30 - 204	0.933	20	
Carbon tetrachloride	19.1000	0.50	0.19	20.0000		95.5	77 - 157	0.366	20	
Chlorobenzene	19.4100	0.50	0.07	20.0000		97.0	86 - 113	0.154	20	
Chloroethane	20.0500	0.50	0.40	20.0000		100	70 - 160	0.745	20	
Chloroform	20.3100	0.50	0.17	20.0000		102	66 - 136	0.295	20	
Chloromethane	20.4600	0.50	0.08	20.0000		102	52 - 138	2.08	20	
cis-1,2-Dichloroethene	21.0000	0.50	0.13	20.0000		105	71 - 128	0.948	20	
cis-1,3-Dichloropropene	22.0100	0.50	0.05	20.0000		110	71 - 123	0.544	20	
Dibromochloromethane	18.7700	0.50	0.14	20.0000		93.8	78 - 140	1.13	20	
Dibromomethane	21.2400	0.50	0.10	20.0000		106	78 - 109	0.709	20	
Dichlorodifluoromethane	21.2500	0.50	0.10	20.0000		106	64 - 144	0.141	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0285 - MSVOA_W (continued)										
LCS Dup (B9B0285-BSD1) - Continued					Prepared: 2/12/2019 Analyzed: 2/12/2019					
Ethylbenzene	38.8400	0.50	0.07	40.0000		97.1	90 - 116	0.180	20	
Hexachlorobutadiene	20.3500	0.50	0.14	20.0000		102	81 - 129	1.14	20	
Isopropylbenzene	20.7400	0.50	0.05	20.0000		104	83 - 129	0.145	20	
m,p-Xylene	42.1900	1.0	0.08	40.0000		105	88 - 124	1.20	20	
Methylene chloride	20.7400	1.0	0.46	20.0000		104	76 - 137	2.29	20	
n-Butylbenzene	20.2000	0.50	0.05	20.0000		101	83 - 129	0.0990	20	
n-Propylbenzene	19.6900	0.50	0.07	20.0000		98.4	85 - 124	0.458	20	
Naphthalene	20.1100	0.50	0.15	20.0000		101	67 - 113	1.58	20	
o-Xylene	42.3600	0.50	0.05	40.0000		106	82 - 129	1.13	20	
sec-Butylbenzene	20.0600	0.50	0.04	20.0000		100	86 - 127	0.745	20	
Styrene	21.5600	0.50	0.06	20.0000		108	83 - 122	1.61	20	
tert-Butylbenzene	20.2000	0.50	0.06	20.0000		101	84 - 130	0.740	20	
Tetrachloroethene	18.5700	0.50	0.07	20.0000		92.8	87 - 123	0.162	20	
Toluene	41.2100	0.50	0.07	40.0000		103	84 - 115	1.85	20	
trans-1,2-Dichloroethene	20.6300	0.50	0.11	20.0000		103	60 - 148	0.628	20	
Trichloroethene	18.4200	0.50	0.05	20.0000		92.1	79 - 129	0.163	20	
Trichlorofluoromethane	21.7700	0.50	0.14	20.0000		109	68 - 162	0.0459	20	
Vinyl chloride	20.3400	0.50	0.05	20.0000		102	73 - 128	2.14	20	
Surrogate: 1,2-Dichloroethane-d4	*28.00*			*25.0000*		*112*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.55*			*25.0000*		*110*	*62 - 134*			
Surrogate: Dibromofluoromethan	*28.86*			*25.0000*		*115*	*56 - 167*			
Surrogate: Toluene-d8	*26.85*			*25.0000*		*107*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0246 - MSSEMI_W										
Blank (B9B0246-BLK1)					Prepared: 2/8/2019 Analyzed: 2/8/2019					
1,4-Dioxane	ND	2.0	0.84							
Surrogate: 1,2-Dichlorobenzene-d	*66.53*			*100.000*		*66.5*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*77.00*			*100.000*		*77.0*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*120.5*			*100.000*		*121*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*75.54*			*100.000*		*75.5*	*32 - 106*			
LCS (B9B0246-BS1)					Prepared: 2/8/2019 Analyzed: 2/8/2019					
1,4-Dioxane	121.660	2.0	0.84	100.000		122	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*71.75*			*100.000*		*71.8*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*91.81*			*100.000*		*91.8*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*109.0*			*100.000*		*109*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*90.41*			*100.000*		*90.4*	*32 - 106*			
LCS Dup (B9B0246-BSD1)					Prepared: 2/8/2019 Analyzed: 2/8/2019					
1,4-Dioxane	114.850	2.0	0.84	100.000		115	40 - 159	5.76	20	
Surrogate: 1,2-Dichlorobenzene-d	*70.71*			*100.000*		*70.7*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*94.48*			*100.000*		*94.5*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*111.0*			*100.000*		*111*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*91.12*			*100.000*		*91.1*	*32 - 106*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/22/2019

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0267 - MSSEMI_W										
Blank (B9B0267-BLK1)					Prepared: 2/11/2019 Analyzed: 2/11/2019					
1,4-Dioxane	ND	0.20	0.05							
Surrogate: 1,2-Dichlorobenzene-d	*0.4682*			*1.00000*		*46.8*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5210*			*1.00000*		*52.1*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7461*			*1.00000*		*74.6*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*0.8323*			*1.00000*		*83.2*	*6 - 124*			
LCS (B9B0267-BS1)					Prepared: 2/11/2019 Analyzed: 2/11/2019					
1,4-Dioxane	1.08428	0.20	0.05	1.00000		108	64 - 129			
Surrogate: 1,2-Dichlorobenzene-d	*0.6036*			*1.00000*		*60.4*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5766*			*1.00000*		*57.7*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.8140*			*1.00000*		*81.4*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.024*			*1.00000*		*102*	*6 - 124*			
LCS Dup (B9B0267-BSD1)					Prepared: 2/11/2019 Analyzed: 2/11/2019					
1,4-Dioxane	1.04442	0.20	0.05	1.00000		104	64 - 129	3.75	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.5953*			*1.00000*		*59.5*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.5757*			*1.00000*		*57.6*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.8262*			*1.00000*		*82.6*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*1.000*			*1.00000*		*100*	*6 - 124*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Monthly Sample, 5
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/22/2019

Notes and Definitions

S5	Surrogate recovery was above laboratory acceptance limit. Sample reanalysis showed the same high recovery.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com

Testing, calibrating, advising

Laboratory Report

February 21, 2019

Advanced Technology Laboratories
PO Box 92797
Long Beach, CA 90809-2797

Attn: Rachelle Arada

Exova Job No:	228854
Purchase Order:	COD - CC
Project Name:	1900539 / Groundwater
Samples Received:	2
Date Received:	02-08-19

Analysis	Page
Bromate by SOP 5600, Rev 3	2

Michael Shelton
Technical Director

Ishika Lokuge
Senior Chemist

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All samples will be disposed of 30 days past invoice unless prior arrangements have been made.

Bromate by SOP 5600, Rev 3
Ion Chromatography-Tandem Mass Spectrometry

Sample preparation: An aliquot of sample was spiked with internal standard (bromate-$^{18}O_3$), and diluted with water. The sample solutions were analyzed using IC-MS/MS.

Parts Per Billion (µg/L)

Sample ID	Result
ATL Lab#: 1900539-04 / POX	ND
ATL Lab#: 1900539-06 / INF	ND
Method Blank	ND
Detection Limit	0.5

Date Analyzed: 02-19-19

Quality Control Summary

Sample ID: ATL Lab#: 1900539-06 / INF

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate	Duplicate % Rec	RPD
Bromate	ND	10.0	8.63	86	8.94	89	3
QC Guidelines				80-120		80-120	NMT 15

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All samples will be disposed of 30 days past invoice unless prior arrangements have been made.

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER

Work Order: 1900539

SENDING LABORATORY:

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Phone: 562.989.4045
Fax: 562.989.6348
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)
Sampler: Ross Horton

RECEIVING LABORATORY:

Exova Inc.
9240 Santa Fe Springs Road
Santa Fe Springs, CA 90670
Phone :(562) 948-2225
Fax: (562) 948-5850
PO#: SC13509-STANDARD TAT

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1900539-04 (1) / POX		**Groundwater**	**02/07/19 13:22**	
Bromate_ICMS/MS_SUB	**02/22/19 17:00**	03/07/19 13:22		
[Bromate by IC-MS/MS]				
1-Poly Unpres - 125mL				
ATL Lab#: 1900539-06 (2) / INF		**Groundwater**	**02/07/19 13:33**	
Bromate_ICMS/MS_SUB	**02/22/19 17:00**	03/07/19 13:33		
[Bromate by IC-MS/MS]				
1-Poly Unpres - 125mL				

02-08-19 AND
Also has: (1) H
(2) F

Released By	Date	Received By	Date
	2/8/19		02/08/19 09:15
Released By	Date	Received By	Date

228854

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 02/07/2019
Page 1 of 1

PROJECT: Raytheon Main GETS Monthly Sample

TASK NO.: 532.15

Project Manager Steve Netto
QA Manager Ross Horton
Phone 858.455.6500
Fax 858.455.6533

Sampled By: Ross Horton

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Groundwater	Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)		Sulfuric Acid (H_2SO_4)	Ice	CONTAINERS: 40-ml VOA	125 mL Poly	250 mL Poly	250 mL Glass	1 L Poly	1L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	Bromate by EPA 317	Bromide by EPA 300	Alkalinity by SM2320B	Total Organic Carbon by SM5310B	Total Suspended Solids by SM2540D	UV Absorption EPA 415.3 @254 nm	1,4-Dioxane by EPA 8270C MOD	1,4-Dioxane by EPA 8270 SIM	Expected Concentration Range (ppb) for VOAs: 0 - 10	10 - 100	100 - 1,000	>1,000		SPECIAL HANDLING: 24 hr TAT	48 Hour TAT	5 Day TAT	Level IV Data Validation Requested	MS/MSD Requested	REMARKS
1900539-01	TB-020719	2/7/2019	8:00		X	X				X	2						X									X							X			
-02	CEFF	2/7/2019	13:17	X		X				X	3					1	X								X	X							X			
-03	CBT	2/7/2019	13:20	X		X				X	3					1	X								X	X							X			
-04	POX	2/7/2019	13:22	X		X			X	X	5	1	1			1	X	X		X	X				X	X							X			
-05	PF	2/7/2019	13:30	X					X	X	2		1	1	1					X	X	X	X										X			
-06	INF	2/7/2019	13:33	X		X				X	3	2				1	X	X	X					X				X					X			
-07	EW-02	2/7/2019	14:02	X		X				X	3	1				1	X		X					X			X						X			
-08	MW-29	2/7/2019	14:21	X		X				X	3	1				1	X		X					X				X					X			
Total number of containers per analysis:											24	5	2	1	1	6																				

Total No. of Containers: 39

Relinquished By: / Company	Date / Time	Received By: / Company	Date / Time
HrA	2/7/19 14:35	tl dk	2-9-19 1435
tl dk	2-9-19 1700		2/7/19 1700

- ✓ No. of containers correct
- ✓ Received in good condition
- Custody seals secure
- ✓ Conforms to COC document

0.4°C Temperature on receipt

Laboratory
Advanced Technology Laboratories
Attn: Rachelle Arada
3275 Walnut Ave
Signal Hill, CA 90755
(562) 989-4045

Send Results to:
Steve Netto & Ross Horton
9171 Towne Centre Drive
Suite 375
San Diego, CA 92122
Ph: 858.455.6500
snetto@hargis.com
rhorton@hargis.com

Instructions
ompletely and sign
allpoint pen. Draw
Indicate the
Note applicable
Consult project QA documents for specific instructions.

March 01, 2019

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1900723
Client Reference : Raytheon Main GETS Mid Month Sample, 532.15

Enclosed are the results for sample(s) received on February 21, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	03/01/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-022119	1900723-01	Lab prepared water	2/21/19 8:00	2/21/19 15:50
CEFF	1900723-02	Groundwater	2/21/19 9:05	2/21/19 15:50
CBT	1900723-03	Groundwater	2/21/19 9:11	2/21/19 15:50
POX	1900723-04	Groundwater	2/21/19 9:19	2/21/19 15:50
INF	1900723-05	Groundwater	2/21/19 9:27	2/21/19 15:50
EW-02	1900723-06	Groundwater	2/21/19 10:26	2/21/19 15:50
MW-29	1900723-07	Groundwater	2/21/19 10:43	2/21/19 15:50

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/01/2019

Client Sample ID TB-022119

Lab ID: 1900723-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,1,1-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,1,2-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,1-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,1-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,1-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,2,3-Trichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,2-Dibromoethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,2-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,2-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,3-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,3-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
1,4-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
2,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
2-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
4-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
4-Isopropyltoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Benzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Bromobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Bromodichloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Bromoform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Bromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Carbon tetrachloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Chlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Chloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Chloroform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Chloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Dibromochloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/01/2019

Client Sample ID TB-022119

Lab ID: 1900723-01

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Dichlorodifluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Ethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Hexachlorobutadiene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Isopropylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
m,p-Xylene	ND	1.0	1	B9B0514	02/22/2019	02/22/19 16:57	
Methylene chloride	ND	1.0	1	B9B0514	02/22/2019	02/22/19 16:57	
n-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
n-Propylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Naphthalene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
o-Xylene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
sec-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Styrene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
tert-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Tetrachloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Toluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Trichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Trichlorofluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Vinyl chloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:57	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*57 - 152*		B9B0514	02/22/2019	*02/22/19 16:57*	
Surrogate: 4-Bromofluorobenzene	*108 %*	*62 - 134*		B9B0514	02/22/2019	*02/22/19 16:57*	
Surrogate: Dibromofluoromethane	*94.8 %*	*56 - 167*		B9B0514	02/22/2019	*02/22/19 16:57*	
Surrogate: Toluene-d8	*109 %*	*33 - 170*		B9B0514	02/22/2019	*02/22/19 16:57*	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/01/2019

Client Sample ID CEFF

Lab ID: 1900723-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,1,1-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,1,2-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,1-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,1-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,1-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,2,3-Trichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,2-Dibromoethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,2-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,2-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,3-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,3-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
1,4-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
2,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
2-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
4-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
4-Isopropyltoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Benzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Bromobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Bromodichloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Bromoform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Bromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Carbon tetrachloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Chlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Chloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Chloroform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Chloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Dibromochloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	

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9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	03/01/2019

Client Sample ID CEFF

Lab ID: 1900723-02

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Dichlorodifluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Ethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Hexachlorobutadiene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Isopropylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
m,p-Xylene	ND	1.0	1	B9B0514	02/22/2019	02/22/19 14:55	
Methylene chloride	ND	1.0	1	B9B0514	02/22/2019	02/22/19 14:55	
n-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
n-Propylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Naphthalene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
o-Xylene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
sec-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Styrene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
tert-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Tetrachloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Toluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Trichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Trichlorofluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Vinyl chloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 14:55	
Surrogate: 1,2-Dichloroethane-d4	*106 %*	*57 - 152*		B9B0514	02/22/2019	*02/22/19 14:55*	
Surrogate: 4-Bromofluorobenzene	*108 %*	*62 - 134*		B9B0514	02/22/2019	*02/22/19 14:55*	
Surrogate: Dibromofluoromethane	*99.9 %*	*56 - 167*		B9B0514	02/22/2019	*02/22/19 14:55*	
Surrogate: Toluene-d8	*109 %*	*33 - 170*		B9B0514	02/22/2019	*02/22/19 14:55*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
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Client Sample ID CEFF

Lab ID: 1900723-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0592	02/26/2019	02/26/19 19:36	
Surrogate: 1,2-Dichlorobenzene-d4	*77.8 %*		*22 - 117*		B9B0592	02/26/2019	*02/26/19 19:36*	
Surrogate: 2-Fluorobiphenyl	*95.7 %*		*20 - 131*		B9B0592	02/26/2019	*02/26/19 19:36*	
Surrogate: 4-Terphenyl-d14	*54.0 %*		*24 - 135*		B9B0592	02/26/2019	*02/26/19 19:36*	
Surrogate: Nitrobenzene-d5	*85.6 %*		*6 - 124*		B9B0592	02/26/2019	*02/26/19 19:36*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID CBT

Lab ID: 1900723-03

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,1,1-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,1,2-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,1-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,1-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,1-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,2,3-Trichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,2-Dibromoethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,2-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,2-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,3-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,3-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
1,4-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
2,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
2-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
4-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
4-Isopropyltoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Benzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Bromobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Bromodichloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Bromoform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Bromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Carbon tetrachloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Chlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Chloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Chloroform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Chloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Dibromochloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	

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Client Sample ID CBT

Lab ID: 1900723-03

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Dichlorodifluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Ethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Hexachlorobutadiene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Isopropylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
m,p-Xylene	ND	1.0	1	B9B0514	02/22/2019	02/22/19 15:19	
Methylene chloride	ND	1.0	1	B9B0514	02/22/2019	02/22/19 15:19	
n-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
n-Propylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Naphthalene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
o-Xylene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
sec-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Styrene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
tert-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Tetrachloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Toluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Trichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Trichlorofluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Vinyl chloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:19	
Surrogate: 1,2-Dichloroethane-d4	*113 %*	*57 - 152*		B9B0514	02/22/2019	*02/22/19 15:19*	
Surrogate: 4-Bromofluorobenzene	*106 %*	*62 - 134*		B9B0514	02/22/2019	*02/22/19 15:19*	
Surrogate: Dibromofluoromethane	*102 %*	*56 - 167*		B9B0514	02/22/2019	*02/22/19 15:19*	
Surrogate: Toluene-d8	*107 %*	*33 - 170*		B9B0514	02/22/2019	*02/22/19 15:19*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Lab ID: 1900723-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0592	02/26/2019	02/26/19 20:03	
Surrogate: 1,2-Dichlorobenzene-d4	*74.8 %*		*22 - 117*		B9B0592	02/26/2019	*02/26/19 20:03*	
Surrogate: 2-Fluorobiphenyl	*93.5 %*		*20 - 131*		B9B0592	02/26/2019	*02/26/19 20:03*	
Surrogate: 4-Terphenyl-d14	*64.0 %*		*24 - 135*		B9B0592	02/26/2019	*02/26/19 20:03*	
Surrogate: Nitrobenzene-d5	*83.0 %*		*6 - 124*		B9B0592	02/26/2019	*02/26/19 20:03*	

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Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
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Client Sample ID POX

Lab ID: 1900723-04

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,1,1-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,1,2-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,1-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,1-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,1-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,2,3-Trichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,2-Dibromoethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,2-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,2-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,3-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,3-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
1,4-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
2,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
2-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
4-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
4-Isopropyltoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Benzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Bromobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Bromodichloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Bromoform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Bromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Carbon tetrachloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Chlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Chloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Chloroform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Chloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Dibromochloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	

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Lab ID: 1900723-04

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Dichlorodifluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Ethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Hexachlorobutadiene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Isopropylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
m,p-Xylene	ND	1.0	1	B9B0514	02/22/2019	02/22/19 15:44	
Methylene chloride	ND	1.0	1	B9B0514	02/22/2019	02/22/19 15:44	
n-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
n-Propylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Naphthalene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
o-Xylene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
sec-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Styrene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
tert-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Tetrachloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Toluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Trichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Trichlorofluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Vinyl chloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 15:44	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*57 - 152*		B9B0514	02/22/2019	*02/22/19 15:44*	
Surrogate: 4-Bromofluorobenzene	*107 %*	*62 - 134*		B9B0514	02/22/2019	*02/22/19 15:44*	
Surrogate: Dibromofluoromethane	*95.0 %*	*56 - 167*		B9B0514	02/22/2019	*02/22/19 15:44*	
Surrogate: Toluene-d8	*107 %*	*33 - 170*		B9B0514	02/22/2019	*02/22/19 15:44*	

Certificate of Analysis

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Client Sample ID POX

Lab ID: 1900723-04

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	0.20	1	B9B0592	02/26/2019	02/26/19 20:29	
Surrogate: 1,2-Dichlorobenzene-d4	*73.0 %*		*22 - 117*		B9B0592	02/26/2019	*02/26/19 20:29*	
Surrogate: 2-Fluorobiphenyl	*89.9 %*		*20 - 131*		B9B0592	02/26/2019	*02/26/19 20:29*	
Surrogate: 4-Terphenyl-d14	*57.5 %*		*24 - 135*		B9B0592	02/26/2019	*02/26/19 20:29*	
Surrogate: Nitrobenzene-d5	*79.5 %*		*6 - 124*		B9B0592	02/26/2019	*02/26/19 20:29*	

Certificate of Analysis

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID INF

Lab ID: 1900723-05

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,1,1-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,1,2-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,1-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,1-Dichloroethene	**41**	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,1-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,2,3-Trichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,2-Dibromoethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,2-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,2-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,3-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,3-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
1,4-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
2,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
2-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
4-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
4-Isopropyltoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Benzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Bromobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Bromodichloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Bromoform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Bromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Carbon tetrachloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Chlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Chloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Chloroform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Chloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Dibromochloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	

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Lab ID: 1900723-05

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Dichlorodifluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Ethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Hexachlorobutadiene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Isopropylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
m,p-Xylene	ND	1.0	1	B9B0514	02/22/2019	02/22/19 16:08	
Methylene chloride	ND	1.0	1	B9B0514	02/22/2019	02/22/19 16:08	
n-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
n-Propylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Naphthalene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
o-Xylene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
sec-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Styrene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
tert-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Tetrachloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Toluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Trichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Trichlorofluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Vinyl chloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:08	
Surrogate: 1,2-Dichloroethane-d4	*105 %*	*57 - 152*		B9B0514	02/22/2019	*02/22/19 16:08*	
Surrogate: 4-Bromofluorobenzene	*110 %*	*62 - 134*		B9B0514	02/22/2019	*02/22/19 16:08*	
Surrogate: Dibromofluoromethane	*96.6 %*	*56 - 167*		B9B0514	02/22/2019	*02/22/19 16:08*	
Surrogate: Toluene-d8	*110 %*	*33 - 170*		B9B0514	02/22/2019	*02/22/19 16:08*	

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Lab ID: 1900723-05

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**25**	2.0	1	B9B0570	02/25/2019	02/25/19 18:15	
Surrogate: 1,2-Dichlorobenzene-d4	*2.39 %*		*34 - 188*		B9B0570	02/25/2019	*02/25/19 18:15*	S2
Surrogate: 2-Fluorobiphenyl	*2.87 %*		*39 - 108*		B9B0570	02/25/2019	*02/25/19 18:15*	S2
Surrogate: 4-Terphenyl-d14	*2.83 %*		*71 - 131*		B9B0570	02/25/2019	*02/25/19 18:15*	S2
Surrogate: Nitrobenzene-d5	*3.59 %*		*32 - 106*		B9B0570	02/25/2019	*02/25/19 18:15*	S2

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Client Sample ID EW-02

Lab ID: 1900723-06

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,1,1-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,1,2-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,1-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,1-Dichloroethene	**9.8**	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,1-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,2,3-Trichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,2-Dibromoethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,2-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,2-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,3-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,3-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
1,4-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
2,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
2-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
4-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
4-Isopropyltoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Benzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Bromobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Bromodichloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Bromoform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Bromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Carbon tetrachloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Chlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Chloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Chloroform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Chloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Dibromochloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	

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Lab ID: 1900723-06

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Dichlorodifluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Ethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Hexachlorobutadiene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Isopropylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
m,p-Xylene	ND	1.0	1	B9B0514	02/22/2019	02/22/19 16:33	
Methylene chloride	ND	1.0	1	B9B0514	02/22/2019	02/22/19 16:33	
n-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
n-Propylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Naphthalene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
o-Xylene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
sec-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Styrene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
tert-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Tetrachloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Toluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Trichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Trichlorofluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Vinyl chloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 16:33	
Surrogate: 1,2-Dichloroethane-d4	*106 %*	*57 - 152*		B9B0514	02/22/2019	*02/22/19 16:33*	
Surrogate: 4-Bromofluorobenzene	*108 %*	*62 - 134*		B9B0514	02/22/2019	*02/22/19 16:33*	
Surrogate: Dibromofluoromethane	*96.2 %*	*56 - 167*		B9B0514	02/22/2019	*02/22/19 16:33*	
Surrogate: Toluene-d8	*109 %*	*33 - 170*		B9B0514	02/22/2019	*02/22/19 16:33*	

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Lab ID: 1900723-06

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		ND	2.0	1	B9B0570	02/25/2019	02/25/19 18:41	
Surrogate: 1,2-Dichlorobenzene-d4	*67.0 %*		*34 - 188*		B9B0570	02/25/2019	*02/25/19 18:41*	
Surrogate: 2-Fluorobiphenyl	*76.2 %*		*39 - 108*		B9B0570	02/25/2019	*02/25/19 18:41*	
Surrogate: 4-Terphenyl-d14	*103 %*		*71 - 131*		B9B0570	02/25/2019	*02/25/19 18:41*	
Surrogate: Nitrobenzene-d5	*81.5 %*		*32 - 106*		B9B0570	02/25/2019	*02/25/19 18:41*	

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Client Sample ID MW-29

Lab ID: 1900723-07

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,1,1-Trichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,1,2,2-Tetrachloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,1,2-Trichloroethane	**0.66**	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,1-Dichloroethane	**1.5**	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,1-Dichloroethene	**140**	5.0	10	B9B0514	02/22/2019	02/22/19 19:00	
1,1-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,2,3-Trichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,2,3-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,2,4-Trichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,2,4-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,2-Dibromo-3-chloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,2-Dibromoethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,2-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,2-Dichloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,3,5-Trimethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,3-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,3-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
1,4-Dichlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
2,2-Dichloropropane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
2-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
4-Chlorotoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
4-Isopropyltoluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Benzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Bromobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Bromodichloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Bromoform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Bromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Carbon tetrachloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Chlorobenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Chloroethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Chloroform	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Chloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
cis-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
cis-1,3-Dichloropropene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Dibromochloromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/01/2019

Client Sample ID MW-29

Lab ID: 1900723-07

Volatile Organic Compounds by EPA 8260B **Analyst: VW**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibromomethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Dichlorodifluoromethane	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Ethylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Hexachlorobutadiene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Isopropylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
m,p-Xylene	ND	1.0	1	B9B0514	02/22/2019	02/22/19 18:35	
Methylene chloride	ND	1.0	1	B9B0514	02/22/2019	02/22/19 18:35	
n-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
n-Propylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Naphthalene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
o-Xylene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
sec-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Styrene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
tert-Butylbenzene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Tetrachloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Toluene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
trans-1,2-Dichloroethene	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Trichloroethene	**1.6**	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Trichlorofluoromethane	**0.60**	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Vinyl chloride	ND	0.50	1	B9B0514	02/22/2019	02/22/19 18:35	
Surrogate: 1,2-Dichloroethane-d4	*109 %*	*57 - 152*		B9B0514	02/22/2019	*02/22/19 19:00*	
Surrogate: 1,2-Dichloroethane-d4	*98.9 %*	*57 - 152*		B9B0514	02/22/2019	*02/22/19 18:35*	
Surrogate: 4-Bromofluorobenzene	*107 %*	*62 - 134*		B9B0514	02/22/2019	*02/22/19 19:00*	
Surrogate: 4-Bromofluorobenzene	*107 %*	*62 - 134*		B9B0514	02/22/2019	*02/22/19 18:35*	
Surrogate: Dibromofluoromethane	*101 %*	*56 - 167*		B9B0514	02/22/2019	*02/22/19 19:00*	
Surrogate: Dibromofluoromethane	*91.9 %*	*56 - 167*		B9B0514	02/22/2019	*02/22/19 18:35*	
Surrogate: Toluene-d8	*108 %*	*33 - 170*		B9B0514	02/22/2019	*02/22/19 18:35*	
Surrogate: Toluene-d8	*108 %*	*33 - 170*		B9B0514	02/22/2019	*02/22/19 19:00*	

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Lab ID: 1900723-07

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: SP**

Analyte		Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane		**120**	2.0	1	B9B0570	02/25/2019	02/25/19 19:06	
Surrogate: 1,2-Dichlorobenzene-d4	*66.4 %*		*34 - 188*		B9B0570	02/25/2019	*02/25/19 19:06*	
Surrogate: 2-Fluorobiphenyl	*78.0 %*		*39 - 108*		B9B0570	02/25/2019	*02/25/19 19:06*	
Surrogate: 4-Terphenyl-d14	*105 %*		*71 - 131*		B9B0570	02/25/2019	*02/25/19 19:06*	
Surrogate: Nitrobenzene-d5	*82.8 %*		*32 - 106*		B9B0570	02/25/2019	*02/25/19 19:06*	

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QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0514 - MSVOA_W										
Blank (B9B0514-BLK1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,1,1,2-Tetrachloroethane	ND	0.50	0.11							
1,1,1-Trichloroethane	ND	0.50	0.18							
1,1,2,2-Tetrachloroethane	ND	0.50	0.17							
1,1,2-Trichloroethane	ND	0.50	0.12							
1,1-Dichloroethane	ND	0.50	0.16							
1,1-Dichloroethene	ND	0.50	0.09							
1,1-Dichloropropene	ND	0.50	0.21							
1,2,3-Trichloropropane	ND	0.50	0.16							
1,2,3-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trichlorobenzene	ND	0.50	0.12							
1,2,4-Trimethylbenzene	ND	0.50	0.08							
1,2-Dibromo-3-chloropropane	ND	0.50	0.24							
1,2-Dibromoethane	ND	0.50	0.11							
1,2-Dichlorobenzene	ND	0.50	0.09							
1,2-Dichloroethane	ND	0.50	0.19							
1,2-Dichloropropane	ND	0.50	0.36							
1,3,5-Trimethylbenzene	ND	0.50	0.05							
1,3-Dichlorobenzene	ND	0.50	0.10							
1,3-Dichloropropane	ND	0.50	0.07							
1,4-Dichlorobenzene	ND	0.50	0.07							
2,2-Dichloropropane	ND	0.50	0.16							
2-Chlorotoluene	ND	0.50	0.08							
4-Chlorotoluene	ND	0.50	0.08							
4-Isopropyltoluene	ND	0.50	0.06							
Benzene	ND	0.50	0.03							
Bromobenzene	ND	0.50	0.09							
Bromodichloromethane	ND	0.50	0.14							
Bromoform	ND	0.50	0.13							
Bromomethane	ND	0.50	0.42							
Carbon tetrachloride	ND	0.50	0.19							
Chlorobenzene	ND	0.50	0.07							
Chloroethane	ND	0.50	0.40							
Chloroform	ND	0.50	0.17							
Chloromethane	ND	0.50	0.08							
cis-1,2-Dichloroethene	ND	0.50	0.13							
cis-1,3-Dichloropropene	ND	0.50	0.05							
Dibromochloromethane	ND	0.50	0.14							
Dibromomethane	ND	0.50	0.10							
Dichlorodifluoromethane	ND	0.50	0.10							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0514 - MSVOA_W (continued)										
Blank (B9B0514-BLK1) - Continued					Prepared: 2/22/2019 Analyzed: 2/22/2019					
Ethylbenzene	ND	0.50	0.07							
Hexachlorobutadiene	ND	0.50	0.14							
Isopropylbenzene	ND	0.50	0.05							
m,p-Xylene	ND	1.0	0.08							
Methylene chloride	ND	1.0	0.46							
n-Butylbenzene	ND	0.50	0.05							
n-Propylbenzene	ND	0.50	0.07							
Naphthalene	ND	0.50	0.15							
o-Xylene	ND	0.50	0.05							
sec-Butylbenzene	ND	0.50	0.04							
Styrene	ND	0.50	0.06							
tert-Butylbenzene	ND	0.50	0.06							
Tetrachloroethene	ND	0.50	0.07							
Toluene	ND	0.50	0.07							
trans-1,2-Dichloroethene	ND	0.50	0.11							
Trichloroethene	ND	0.50	0.05							
Trichlorofluoromethane	ND	0.50	0.14							
Vinyl chloride	ND	0.50	0.05							
Surrogate: 1,2-Dichloroethane-d4	*26.98*			*25.0000*		*108*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*27.26*			*25.0000*		*109*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.85*			*25.0000*		*99.4*	*56 - 167*			
Surrogate: Toluene-d8	*27.45*			*25.0000*		*110*	*33 - 170*			
LCS (B9B0514-BS1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,1,1,2-Tetrachloroethane	17.2400	0.50	0.11	20.0000		86.2	80 - 137			
1,1,1-Trichloroethane	16.0400	0.50	0.18	20.0000		80.2	75 - 148			
1,1,2,2-Tetrachloroethane	14.9100	0.50	0.17	20.0000		74.6	64 - 118			
1,1,2-Trichloroethane	16.9800	0.50	0.12	20.0000		84.9	77 - 113			
1,1-Dichloroethane	16.9100	0.50	0.16	20.0000		84.6	72 - 131			
1,1-Dichloroethene	17.4900	0.50	0.09	20.0000		87.4	75 - 132			
1,1-Dichloropropene	17.5200	0.50	0.21	20.0000		87.6	84 - 141			
1,2,3-Trichloropropane	15.4000	0.50	0.16	20.0000		77.0	65 - 111			
1,2,3-Trichlorobenzene	17.6300	0.50	0.12	20.0000		88.2	79 - 117			
1,2,4-Trichlorobenzene	18.1100	0.50	0.12	20.0000		90.6	78 - 121			
1,2,4-Trimethylbenzene	18.4800	0.50	0.08	20.0000		92.4	83 - 125			
1,2-Dibromo-3-chloropropane	17.0400	0.50	0.24	20.0000		85.2	54 - 116			
1,2-Dibromoethane	18.1000	0.50	0.11	20.0000		90.5	79 - 118			
1,2-Dichlorobenzene	18.8200	0.50	0.09	20.0000		94.1	82 - 115			
1,2-Dichloroethane	15.5600	0.50	0.19	20.0000		77.8	76 - 115			
1,2-Dichloropropane	15.7300	0.50	0.36	20.0000		78.6	74 - 113			
1,3,5-Trimethylbenzene	18.7900	0.50	0.05	20.0000		94.0	83 - 126			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0514 - MSVOA_W (continued)										
LCS (B9B0514-BS1) - Continued					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,3-Dichlorobenzene	18.8000	0.50	0.10	20.0000		94.0	84 - 118			
1,3-Dichloropropane	14.5300	0.50	0.07	20.0000		72.6	72 - 116			
1,4-Dichlorobenzene	18.6000	0.50	0.07	20.0000		93.0	83 - 112			
2,2-Dichloropropane	17.5800	0.50	0.16	20.0000		87.9	72 - 150			
2-Chlorotoluene	18.2600	0.50	0.08	20.0000		91.3	82 - 120			
4-Chlorotoluene	18.6400	0.50	0.08	20.0000		93.2	81 - 121			
4-Isopropyltoluene	19.3800	0.50	0.06	20.0000		96.9	86 - 124			
Benzene	34.7400	0.50	0.03	40.0000		86.8	81 - 118			
Bromobenzene	17.1300	0.50	0.09	20.0000		85.6	82 - 117			
Bromodichloromethane	16.0300	0.50	0.14	20.0000		80.2	80 - 122			
Bromoform	18.1600	0.50	0.13	20.0000		90.8	53 - 145			
Bromomethane	17.5100	0.50	0.42	20.0000		87.6	30 - 204			
Carbon tetrachloride	17.9400	0.50	0.19	20.0000		89.7	77 - 157			
Chlorobenzene	18.2600	0.50	0.07	20.0000		91.3	86 - 113			
Chloroethane	17.9600	0.50	0.40	20.0000		89.8	70 - 160			
Chloroform	16.0300	0.50	0.17	20.0000		80.2	66 - 136			
Chloromethane	15.7600	0.50	0.08	20.0000		78.8	52 - 138			
cis-1,2-Dichloroethene	16.3900	0.50	0.13	20.0000		82.0	71 - 128			
cis-1,3-Dichloropropene	18.6500	0.50	0.05	20.0000		93.2	71 - 123			
Dibromochloromethane	15.6000	0.50	0.14	20.0000		78.0	78 - 140			
Dibromomethane	15.4000	0.50	0.10	20.0000		77.0	78 - 109			L4
Dichlorodifluoromethane	12.5600	0.50	0.10	20.0000		62.8	64 - 144			L4
Ethylbenzene	38.0100	0.50	0.07	40.0000		95.0	90 - 116			
Hexachlorobutadiene	18.8900	0.50	0.14	20.0000		94.4	81 - 129			
Isopropylbenzene	19.2500	0.50	0.05	20.0000		96.2	83 - 129			
m,p-Xylene	41.8200	1.0	0.08	40.0000		105	88 - 124			
Methylene chloride	18.1000	1.0	0.46	20.0000		90.5	76 - 137			
n-Butylbenzene	19.1600	0.50	0.05	20.0000		95.8	83 - 129			
n-Propylbenzene	18.7400	0.50	0.07	20.0000		93.7	85 - 124			
Naphthalene	16.3800	0.50	0.15	20.0000		81.9	67 - 113			
o-Xylene	41.2800	0.50	0.05	40.0000		103	82 - 129			
sec-Butylbenzene	19.0500	0.50	0.04	20.0000		95.2	86 - 127			
Styrene	20.7600	0.50	0.06	20.0000		104	83 - 122			
tert-Butylbenzene	19.0500	0.50	0.06	20.0000		95.2	84 - 130			
Tetrachloroethene	17.3000	0.50	0.07	20.0000		86.5	87 - 123			L4
Toluene	41.6100	0.50	0.07	40.0000		104	84 - 115			
trans-1,2-Dichloroethene	16.2200	0.50	0.11	20.0000		81.1	60 - 148			
Trichloroethene	16.4300	0.50	0.05	20.0000		82.2	79 - 129			
Trichlorofluoromethane	16.2600	0.50	0.14	20.0000		81.3	68 - 162			
Vinyl chloride	16.4400	0.50	0.05	20.0000		82.2	73 - 128			
Surrogate: 1,2-Dichloroethane-d4	*21.70*			*25.0000*		*86.8*	*57 - 152*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0514 - MSVOA_W (continued)										
LCS (B9B0514-BS1) - Continued					Prepared: 2/22/2019 Analyzed: 2/22/2019					
Surrogate: 4-Bromofluorobenzene	*28.53*			*25.0000*		*114*	*62 - 134*			
Surrogate: Dibromofluoromethan	*22.35*			*25.0000*		*89.4*	*56 - 167*			
Surrogate: Toluene-d8	*27.04*			*25.0000*		*108*	*33 - 170*			
LCS Dup (B9B0514-BSD1)					Prepared: 2/22/2019 Analyzed: 2/22/2019					
1,1,1,2-Tetrachloroethane	20.9700	0.50	0.11	20.0000		105	80 - 137	19.5	20	
1,1,1-Trichloroethane	19.2900	0.50	0.18	20.0000		96.4	75 - 148	18.4	20	
1,1,2,2-Tetrachloroethane	19.0100	0.50	0.17	20.0000		95.0	64 - 118	24.2	20	R
1,1,2-Trichloroethane	21.7600	0.50	0.12	20.0000		109	77 - 113	24.7	20	R
1,1-Dichloroethane	20.5900	0.50	0.16	20.0000		103	72 - 131	19.6	20	
1,1-Dichloroethene	20.7000	0.50	0.09	20.0000		104	75 - 132	16.8	20	
1,1-Dichloropropene	20.2000	0.50	0.21	20.0000		101	84 - 141	14.2	20	
1,2,3-Trichloropropane	19.2500	0.50	0.16	20.0000		96.2	65 - 111	22.2	20	R
1,2,3-Trichlorobenzene	20.8200	0.50	0.12	20.0000		104	79 - 117	16.6	20	
1,2,4-Trichlorobenzene	20.6600	0.50	0.12	20.0000		103	78 - 121	13.2	20	
1,2,4-Trimethylbenzene	20.4800	0.50	0.08	20.0000		102	83 - 125	10.3	20	
1,2-Dibromo-3-chloropropane	23.8200	0.50	0.24	20.0000		119	54 - 116	33.2	20	L5, R
1,2-Dibromoethane	22.9300	0.50	0.11	20.0000		115	79 - 118	23.5	20	R
1,2-Dichlorobenzene	21.3200	0.50	0.09	20.0000		107	82 - 115	12.5	20	
1,2-Dichloroethane	20.0900	0.50	0.19	20.0000		100	76 - 115	25.4	20	R
1,2-Dichloropropane	18.9900	0.50	0.36	20.0000		95.0	74 - 113	18.8	20	
1,3,5-Trimethylbenzene	20.7400	0.50	0.05	20.0000		104	83 - 126	9.87	20	
1,3-Dichlorobenzene	21.0100	0.50	0.10	20.0000		105	84 - 118	11.1	20	
1,3-Dichloropropane	17.7500	0.50	0.07	20.0000		88.8	72 - 116	20.0	20	
1,4-Dichlorobenzene	20.8300	0.50	0.07	20.0000		104	83 - 112	11.3	20	
2,2-Dichloropropane	20.8300	0.50	0.16	20.0000		104	72 - 150	16.9	20	
2-Chlorotoluene	20.1400	0.50	0.08	20.0000		101	82 - 120	9.79	20	
4-Chlorotoluene	20.5700	0.50	0.08	20.0000		103	81 - 121	9.84	20	
4-Isopropyltoluene	21.1500	0.50	0.06	20.0000		106	86 - 124	8.73	20	
Benzene	40.2400	0.50	0.03	40.0000		101	81 - 118	14.7	20	
Bromobenzene	19.2600	0.50	0.09	20.0000		96.3	82 - 117	11.7	20	
Bromodichloromethane	20.2800	0.50	0.14	20.0000		101	80 - 122	23.4	20	R
Bromoform	25.9500	0.50	0.13	20.0000		130	53 - 145	35.3	20	R
Bromomethane	19.3300	0.50	0.42	20.0000		96.6	30 - 204	9.88	20	
Carbon tetrachloride	21.9600	0.50	0.19	20.0000		110	77 - 157	20.2	20	R
Chlorobenzene	20.9000	0.50	0.07	20.0000		104	86 - 113	13.5	20	
Chloroethane	19.7800	0.50	0.40	20.0000		98.9	70 - 160	9.64	20	
Chloroform	19.9100	0.50	0.17	20.0000		99.6	66 - 136	21.6	20	R
Chloromethane	17.8100	0.50	0.08	20.0000		89.0	52 - 138	12.2	20	
cis-1,2-Dichloroethene	20.3900	0.50	0.13	20.0000		102	71 - 128	21.8	20	R
cis-1,3-Dichloropropene	23.4100	0.50	0.05	20.0000		117	71 - 123	22.6	20	R
Dibromochloromethane	20.4500	0.50	0.14	20.0000		102	78 - 140	26.9	20	R

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0514 - MSVOA_W (continued)										
LCS Dup (B9B0514-BSD1) - Continued					Prepared: 2/22/2019 Analyzed: 2/22/2019					
Dibromomethane	20.1200	0.50	0.10	20.0000		101	78 - 109	26.6	20	R
Dichlorodifluoromethane	14.3500	0.50	0.10	20.0000		71.8	64 - 144	13.3	20	
Ethylbenzene	42.9800	0.50	0.07	40.0000		107	90 - 116	12.3	20	
Hexachlorobutadiene	20.5300	0.50	0.14	20.0000		103	81 - 129	8.32	20	
Isopropylbenzene	21.2400	0.50	0.05	20.0000		106	83 - 129	9.83	20	
m,p-Xylene	47.4200	1.0	0.08	40.0000		119	88 - 124	12.6	20	
Methylene chloride	21.1500	1.0	0.46	20.0000		106	76 - 137	15.5	20	
n-Butylbenzene	20.8600	0.50	0.05	20.0000		104	83 - 129	8.50	20	
n-Propylbenzene	20.5500	0.50	0.07	20.0000		103	85 - 124	9.21	20	
Naphthalene	20.7100	0.50	0.15	20.0000		104	67 - 113	23.3	20	R
o-Xylene	47.1300	0.50	0.05	40.0000		118	82 - 129	13.2	20	
sec-Butylbenzene	20.9400	0.50	0.04	20.0000		105	86 - 127	9.45	20	
Styrene	24.2200	0.50	0.06	20.0000		121	83 - 122	15.4	20	
tert-Butylbenzene	20.9000	0.50	0.06	20.0000		104	84 - 130	9.26	20	
Tetrachloroethene	19.5300	0.50	0.07	20.0000		97.6	87 - 123	12.1	20	
Toluene	47.8700	0.50	0.07	40.0000		120	84 - 115	14.0	20	L4
trans-1,2-Dichloroethene	19.8700	0.50	0.11	20.0000		99.4	60 - 148	20.2	20	R
Trichloroethene	19.2700	0.50	0.05	20.0000		96.4	79 - 129	15.9	20	
Trichlorofluoromethane	18.8500	0.50	0.14	20.0000		94.2	68 - 162	14.8	20	
Vinyl chloride	18.7900	0.50	0.05	20.0000		94.0	73 - 128	13.3	20	
Surrogate: 1,2-Dichloroethane-d4	*24.76*			*25.0000*		*99.0*	*57 - 152*			
Surrogate: 4-Bromofluorobenzene	*28.69*			*25.0000*		*115*	*62 - 134*			
Surrogate: Dibromofluoromethan	*24.47*			*25.0000*		*97.9*	*56 - 167*			
Surrogate: Toluene-d8	*27.07*			*25.0000*		*108*	*33 - 170*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/01/2019

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0570 - MSSEMI_W										
Blank (B9B0570-BLK1)					Prepared: 2/25/2019 Analyzed: 2/25/2019					
1,4-Dioxane	ND	2.0	0.84							
Surrogate: 1,2-Dichlorobenzene-d	*69.81*			*100.000*		*69.8*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*82.73*			*100.000*		*82.7*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*114.5*			*100.000*		*115*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*88.97*			*100.000*		*89.0*	*32 - 106*			
LCS (B9B0570-BS1)					Prepared: 2/25/2019 Analyzed: 2/25/2019					
1,4-Dioxane	120.600	2.0	0.84	100.000		121	40 - 159			
Surrogate: 1,2-Dichlorobenzene-d	*62.68*			*100.000*		*62.7*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*82.90*			*100.000*		*82.9*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*100.5*			*100.000*		*100*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*87.44*			*100.000*		*87.4*	*32 - 106*			
LCS Dup (B9B0570-BSD1)					Prepared: 2/25/2019 Analyzed: 2/25/2019					
1,4-Dioxane	122.050	2.0	0.84	100.000		122	40 - 159	1.20	20	
Surrogate: 1,2-Dichlorobenzene-d	*65.12*			*100.000*		*65.1*	*34 - 188*			
Surrogate: 2-Fluorobiphenyl	*82.48*			*100.000*		*82.5*	*39 - 108*			
Surrogate: 4-Terphenyl-d14	*100.3*			*100.000*		*100*	*71 - 131*			
Surrogate: Nitrobenzene-d5	*86.95*			*100.000*		*87.0*	*32 - 106*			

Certificate of Analysis

Hargis & Associates, Inc.	Project Number : Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/01/2019

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9B0592 - MSSEMI_W										
Blank (B9B0592-BLK1)						Prepared: 2/26/2019 Analyzed: 2/26/2019				
1,4-Dioxane	ND	0.20	0.05							
Surrogate: 1,2-Dichlorobenzene-d	*0.7208*			*1.00000*		*72.1*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.9416*			*1.00000*		*94.2*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7317*			*1.00000*		*73.2*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*0.8370*			*1.00000*		*83.7*	*6 - 124*			
LCS (B9B0592-BS1)						Prepared: 2/26/2019 Analyzed: 2/26/2019				
1,4-Dioxane	1.08927	0.20	0.05	1.00000		109	64 - 129			
Surrogate: 1,2-Dichlorobenzene-d	*0.7464*			*1.00000*		*74.6*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.9760*			*1.00000*		*97.6*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7795*			*1.00000*		*78.0*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*0.8816*			*1.00000*		*88.2*	*6 - 124*			
LCS Dup (B9B0592-BSD1)						Prepared: 2/26/2019 Analyzed: 2/26/2019				
1,4-Dioxane	1.06187	0.20	0.05	1.00000		106	64 - 129	2.55	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.7604*			*1.00000*		*76.0*	*22 - 117*			
Surrogate: 2-Fluorobiphenyl	*0.9943*			*1.00000*		*99.4*	*20 - 131*			
Surrogate: 4-Terphenyl-d14	*0.7092*			*1.00000*		*70.9*	*24 - 135*			
Surrogate: Nitrobenzene-d5	*0.9154*			*1.00000*		*91.5*	*6 - 124*			

Certificate of Analysis

Hargis & Associates, Inc.		Project Number :	Raytheon Main GETS Mid Month Sample
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	03/01/2019

Notes and Definitions

S2	Surrogate recovery was below laboratory acceptance limit. Reextraction and/or reanalysisconfirms low recovery caused by matrix effects.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
L5	Laboratory Control Sample high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

HARGIS+ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Date: 2/21/2019
Page 1 of 1

PROJECT: Raytheon Main GETS Mid Month Sample

TASK NO.: 532.15

Project Manager Steve Netto
QA Manager Ross Horton
Phone 858.455.6500
Fax 858.455.6533

Sampled By: Ross Horton

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Groundwater	Lab prepared water	PRESERVATION: Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Ice	CONTAINERS: 40-ml VOA	125 mL Poly	250 mL Poly	250 mL Glass	1 L Poly	1L Amber	ANALYSIS REQUESTED: VOCs by EPA 8260B	Bromate by EPA 317	Bromide by EPA 300	Alkalinity by SM2320B	Total Organic Carbon by SM5310B	Total Suspended Solids by SM2540D	UV Absorption EPA 415.3 @254 nm	1,4-Dioxane by EPA 8270C MOD	1,4-Dioxane by EPA 8270C SIM	Expected Concentration Range (ppb) for: 0 - 10	10 - 100	100 - 1,000	>1,000	SPECIAL HANDLING: 24 hr TAT	48 Hour TAT	5 Day TAT	Level IV Data Validation Requested	MS/MSD Requested
1900723-01	TB-022119	2/21/2019	8:00		X	X			X	2						X									X						X		
-02	CEFF	2/21/2019	9:05	X		X			X	3					1	X								X	X						X		
-03	CBT	2/21/2019	9:11	X		X			X	3					1	X								X	X						X		
-04	POX	2/21/2019	9:19	X		X			X	3					1	X								X	X						X		
-05	INF	2/21/2019	9:27	X		X			X	3					1	X							X				X				X		
-06	EW-02	2/21/2019	10:26	X		X			X	3					1	X							X			X					X		
-07	MW-29	2/21/2019	10:43	X		X			X	3					1	X							X				X				X		
Total number of containers per analysis:										20					6																		

Total No. of Containers: 26

Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
H+A	2/21/2019 12:15		2/21/2019 12:15
Relinquished By: / Company:	Date / Time	Received By: / Company	Date / Time
H+A	2/21/19 1550		2/21/19 1550

- ✓ No. of containers correct
- ✓ Received in good condition
- Custody seals secure
- ✓ Conforms to COC document

2.0 °C Temperature on receipt

Laboratory

Adcanced Technology Laboratories
Attn: Rachelle Arada
3275 Walnut Ave
Signal Hill, CA 90755
(562) 989-4045

REMARKS

Send Results to:
Steve Netto
9171 Towne Centre Drive
Suite 275
San Diego, CA 92122
Ph: 858.455.6500
snetto@hargis.com

Instructions

1. Fill out form completely and sign only after verified for completeness
2. Complete in ballpoint pen. Draw one line through error, initial and date correction
3. Indicate the number of sample containers in analytical request space; indicate choice with ✓or ×
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

APPENDIX B

GROUNDWATER SAMPLING FIELD FORMS

SCANNED
4-4-19 JAK

FEBRUARY 2019

ANNUAL GROUNDWATER MONITORING

FIELD NOTEBOOK

LOW VOLUME MONITOR WELLS

RAYTHEON COMPANY

532.30

1901 MALVERN AVE.
FULLERTON, CALIFORNIA

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

HARGIS + ASSOCIATES, INC.

DAILY FIELD SAFETY BRIEFING ATTENDANCE SHEET

Date: 2/11/19

Location: FULLERTON, CA

Presented by: AMD

A. GENERAL INTRODUCTION

1. Location of site Health and Safety Plan (HSP) and ensure everyone has read the site HSP.
2. Primary hazards and controls (chemical, physical, and biological).
3. Sanitation and decontamination (potable water, nonpotable water, toilet, sink, shower).
4. General Site Rules.
5. Emergency Response Plan (location where emergency telephone numbers and hospital route posted, shower, first aid kit, fire extinguisher, alarm system, evacuation, meeting place, contingencies, upwind).
6. Establish buddy system.

B. SPECIFIC PRECAUTIONS FOR DAY'S ACTIVITIES Go over the hospital route daily; wear traffic vests, use safety cones, and be aware of traffic whenever in or near the roadways; wear sunscreen and hydrate well; wear gloves and take appropriate precautions when handling contaminated groundwater; watch for black widow spiders in vaults. Notify your supervisor and field partner of any issues.

C. ON-SITE ORGANIZATION AND COORDINATION

D. OTHER TOPICS:

ATTENDEE LIST

PRINT NAME	SIGNATURE	COMPANY	DATE
Andrew Donnelly		HARGIS + ASSOC., INC	2/11/19
Nadja Scholl		HARGIS + ASSOC., INC	2/11/19
Christian Diaz		HARGIS + ASSOC., INC	02/11/2019
Ruben Sanchez		H+A	2/11/19
DJ Scalice		H+A	2/11/19

HARGIS + ASSOCIATES, INC.

DAILY FIELD SAFETY BRIEFING ATTENDANCE SHEET

Date: 2/12/19

Location: FULLERTON, CA

Presented by: AMD

A. GENERAL INTRODUCTION

1. Location of site Health and Safety Plan (HSP) and ensure everyone has read the site HSP.
2. Primary hazards and controls (chemical, physical, and biological).
3. Sanitation and decontamination (potable water, nonpotable water, toilet, sink, shower).
4. General Site Rules.
5. Emergency Response Plan (location where emergency telephone numbers and hospital route posted, shower, first aid kit, fire extinguisher, alarm system, evacuation, meeting place, contingencies, upwind).
6. Establish buddy system.

B. SPECIFIC PRECAUTIONS FOR DAY'S ACTIVITIES Go over the hospital route daily; wear traffic vests, use safety cones, and be aware of traffic whenever in or near the roadways; wear sunscreen and hydrate well; wear gloves and take appropriate precautions when handling contaminated groundwater; watch for black widow spiders in vaults. Notify your supervisor and field partner of any issues.

C. ON-SITE ORGANIZATION AND COORDINATION

D. OTHER TOPICS:

ATTENDEE LIST

PRINT NAME	SIGNATURE	COMPANY	DATE
Andrew Donnelly		HARGIS + ASSOC., INC	2/12/19
Ruben Sanchez		HARGIS + ASSOC., INC	2/12/19
DJ Seaver		HARGIS + ASSOC., INC	2/12/19
Christian Diaz		H+A	02/12/2019
Nadja Scholl		H+A	2/12/2019

HARGIS + ASSOCIATES, INC.

DAILY FIELD SAFETY BRIEFING ATTENDANCE SHEET

Date: 2/13/19

Location: FULLERTON, CA

Presented by: AMO

A. GENERAL INTRODUCTION

1. Location of site Health and Safety Plan (HSP) and ensure everyone has read the site HSP.
2. Primary hazards and controls (chemical, physical, and biological).
3. Sanitation and decontamination (potable water, nonpotable water, toilet, sink, shower).
4. General Site Rules.
5. Emergency Response Plan (location where emergency telephone numbers and hospital route posted, shower, first aid kit, fire extinguisher, alarm system, evacuation, meeting place, contingencies, upwind).
6. Establish buddy system.

B. SPECIFIC PRECAUTIONS FOR DAY'S ACTIVITIES Go over the hospital route daily; wear traffic vests, use safety cones, and be aware of traffic whenever in or near the roadways; wear sunscreen and hydrate well; wear gloves and take appropriate precautions when handling contaminated groundwater; watch for black widow spiders in vaults. Notify your supervisor and field partner of any issues.

C. ON-SITE ORGANIZATION AND COORDINATION

D. OTHER TOPICS:

ATTENDEE LIST

PRINT NAME	SIGNATURE	COMPANY	DATE
Christian Diaz		HARGIS + ASSOC., INC	02/13/2019
Ruben Sanchez		HARGIS + ASSOC., INC	2/13/19
ADonnelly		HARGIS + ASSOC., INC	2/13/19
Nadja Scholl		H+A	2/13/19

HARGIS + ASSOCIATES, INC.

DAILY FIELD SAFETY BRIEFING ATTENDANCE SHEET

Date: 2/14/19

Location: FULLERTON, CA

Presented by: AMD

A. GENERAL INTRODUCTION

1. Location of site Health and Safety Plan (HSP) and ensure everyone has read the site HSP.
2. Primary hazards and controls (chemical, physical, and biological).
3. Sanitation and decontamination (potable water, nonpotable water, toilet, sink, shower).
4. General Site Rules.
5. Emergency Response Plan (location where emergency telephone numbers and hospital route posted, shower, first aid kit, fire extinguisher, alarm system, evacuation, meeting place, contingencies, upwind).
6. Establish buddy system.

B. SPECIFIC PRECAUTIONS FOR DAY'S ACTIVITIES Go over the hospital route daily; wear traffic vests, use safety cones, and be aware of traffic whenever in or near the roadways; wear sunscreen and hydrate well; wear gloves and take appropriate precautions when handling contaminated groundwater; watch for black widow spiders in vaults. Notify your supervisor and field partner of any issues.

C. ON-SITE ORGANIZATION AND COORDINATION

D. OTHER TOPICS:

ATTENDEE LIST

PRINT NAME	SIGNATURE	COMPANY	DATE
Andrew Donnelly	A Donnelly	HARGIS + ASSOC., INC	2/14/19
Nadja Scholl		HARGIS + ASSOC., INC	2/14/19
Christian Diaz		HARGIS + ASSOC., INC	02/15/2019
DJ Sealee		H+A	02/15/2019

FIELD CONTACTS

OCWD MARSH WELL CONVERSION (1161.02)

H+A Project Team Cell Numbers

CGAR: 619.994.9710
RAN: 619.871-9002
EJH: 530.306.7049
DM: 760.399.7881

Orange County Water District (OCWD)
18700 Ward Street
Fountain Valley, Ca 92708
David Field (office) . . . . . (714) 378-3237
(cell) . . . . . (714)722-7323

Yellow Jacket Drilling Services
Tim Cechini (cell) . . . . . (909) 721-6726
Catherine (driller) . . . . . (714) 388-8421
Chris Neal (supervisor) (office) . . . . . (909) 989-8563

RENTAL VENDORS

Eco-Rental Solutions . . . . . . (949) 398-4600
3002 Dow Avenue, Suite 130,
Tustin, CA 92780

Pine Environmental Services . . . . . . (949) 263-1500
1350 Reynolds Ave # 117,
Irvine, CA 92614-5534
Angela Reiter (cell) . . . . . (949) 943.7302

United Site Services . . . . . (800) 864-5387

Pacific Surveys . . . . . (909) 625-6262
Michael Ridder

American Intergrated Serices. . . . . (310) 522-1168
Melynda Borrego . . . . . (310) 864-2489
Dispatch . . . . . (310) 428-4402

Rain for Rent . . . . . (800) 742-7246
Long Beach . . . . . (562) 595-7760

EMERGENCY CONTACTS

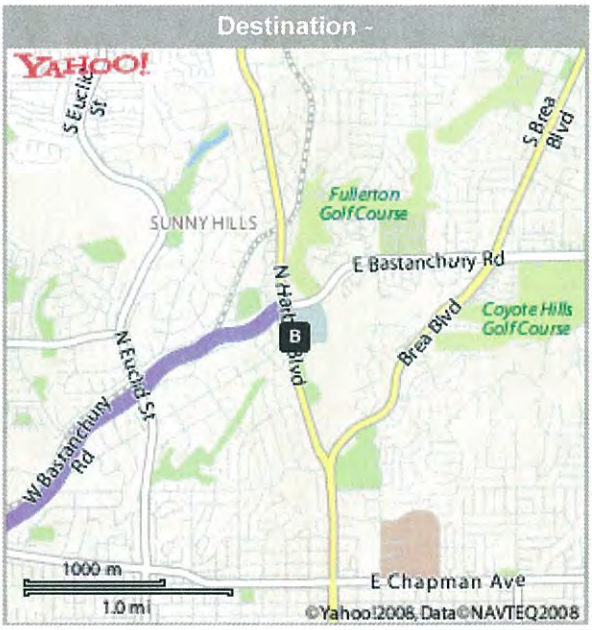
Local Police Fullerton Police Department 237 West Commonwealth Avenue Fullerton, CA	**911** or for non-emergency (714) 738-6790
Local Fire Department Fullerton Fire Department 312 East Commonwealth Avenue Fullerton, CA	**911** or for non-emergency (714) 738-6500
Local Ambulance Service Care Ambulance Service 8932 Katella Avenue Anaheim, CA	**911** or for non-emergency (714) 828-7750
Local Hospital St. Jude Medical Center 101 East Valencia Mesa Fullerton, CA	(714) 992-3000
Client Contact Paul Brewer Raytheon	(714) 446-3525
Poison Control Center University of California, Medical Center 200 West Arbor Drive San Diego, CA 92103	(800) 222-1222 for emergency or (858) 715-6300 for administration
H+A Offices Project Manager, Chris Ross Field Task Manager, _____ H&S Manager, Cindy Leo H&S Administrator/Site Safety Officer, Marcos Rodriquez	San Diego (858) 455-6500 San Diego (858) 455-6500 Tucson (858) 455-6500 San Diego (858) 455-6500
Occupational Medicine Consulting Firm WorkCare, Inc. 300 South Harbor Blvd. Suite 600 Anaheim, CA 92805	Phone: (800)455-6155 ext 152 Fax: (714) 922-1023

Driving Directions

Starting from: 1 Raytheon Site: 1901 W. Malvern Ave., Fullerton, California 92833-2177

Arriving at: 2 St. Jude Medical Center: 101 E. Valencia Mesa, Fullerton, California 92835-3809

Distance: 2.4 miles **Approximate Travel Time:** 5 minutes



Directions		Miles	
1.	Start on **MALVERN AVE**	0.1	↑
2.	Turn Left on **W BASTANCHURY RD**	2.2	↰
3.	Turn Right on **N HARBOR BLVD**	0.2	↱
4.	Turn Left on **E VALENCIA MESA DR**	0.0	↰
Distance: 2.4 miles **Approximate Travel Time:** 5 minutes			

FIGURE 9

ROUTE TO HOSPITAL

INSTRUMENT CALIBRATION LOG FOR GROUNDWATER SAMPLING: Temp + pH + EC + DO + ORP

DATE	TIME	pH BUFFER	pH READING	TEMP of Soln (C)	METER TYPE	EC STANDARD (mS/cm)	EC READ-ING (mS/cm)	DO READ-ING (mg/l)	ORP READ-ING (mV)	COMMENTS/ TEMP OR ALTITUDE CORRECTION FACTOR	INITIALS
2/13/2019	0724	10.13	10.09	14.1	YSI Pro +	7	5.67		8.35		
		4.00	4.14	13.9	FA01786						
		7.05	7.05	14.0							
2/13/2019	0724	10.13	9.88	14.5	YSI Pro +	7	5.624		9.38		
		4.00	4.12	14.3	FA02111						
		7.05	6.89	14.3							
2/14/2019	0725	10.13	9.99	14.6	FA01786	7	5.864	7.50			
		4.00	4.05	15.2	↓						
		7.05	6.92	14.8							
2/14/2019	0725	10.12	9.97	15.2	FA02111	7000	5730	8.7			
		4.00	4.05	15.3	↓						
		7.05	6.99	14.6							

HARGIS + ASSOCIATES, INC.

WATER LEVEL INDICATOR
CALIBRATION DOCUMENTATION FORM

PROJECT NUMBER:**532.30**

DATE	TIME	WATER LEVEL INDICATOR TYPE	WATER LEVEL INDICATOR NUMBER	CALIBRATION METHOD	CALIBRATED BY (INITIALS)	REMARKS
2/11/19	0735	276946	COAXIAL		AMD	DTW = 73.32
2/11/19	0736	267217	FLATTAPE		AMD	DTW = 73.36
2/11/19			FLATTAPE			DTW = 73.37

HARGIS + ASSOCIATES, INC.

STATIC WATER LEVEL DATA SHEET

MONTH/YEAR: FEBRUARY 2019

METHOD OF MEASUREMENT/SOUNDER IDENTIFIER: FLAT TAPE ELECTRIC SOUNDER #_____

PROJECT NUMBER: 532.30

WELL IDENTIFIER	DATE	TIME	MEASURING POINT	DEPTH TO WATER FROM REFERENCE POINT (+feet)	REFERENCE POINT ELEVATION (ft msl)	WATER LEVEL ELEVATION (ft msl)	NOVEMBER 2018 PREVIOUS DEPTH TO WATER (ft)	CHANGE IN WATER LEVEL (± ft)	COMMENTS	INITIALS
P-07	02/ /19				142.31		112.54			
P-09	02/11/19	0955	TOC	120.95	183.86	62.91	120.86	-0.09		AMD/CVD
MW-06	02/11/19	0956	TOC	159.29	184.70	25.41	163.09	+3.80		↓
MW-08	02/ /19				155.91		133.18			
MW-09	02/11/19	0947	TOC	156.75	180.10	23.35	158.90	2.15		AMD/CVD
MW-13	02/11/19	0918	TOC	123.11	141.84	18.73	129.19	6.08		↓
MW-15	02/ /19				144.95		129.65			
MW-16	02/ /19				142.40		128.51			
MW-17	02/11/19	0926	TOC	123.20	142.70	19.50	132.61	9.41		AMD/CVD
MW-18	02/11/19	0923	TOC	123.62	142.32	18.70	133.16	9.54		
MW-19	02/11/19	0933	TOST	123.39	142.06	18.67	132.85	9.46		
MW-20	02/11/19	1002	TOC	154.45	184.19	29.74	156.43	1.98		↓
MW-21	02/ /19				141.18		118.22		Totalizer: Pumping?	
MW-22	02/11/19	0809	TOST	119.65	138.65	19.00	129.33	9.68		AMP/CVD
MW-23	02/11/19	0851	TOST	119.25	137.33	18.08	129.36	10.11		↓
MW-24	02/ /19				142.83		122.04			
MW-25	02/ /19				142.64		123.62			
MW-26A	02/11/19	0840	TOC	~~122.35~~ ~~117.85~~	137.04	14.69	123.48	1.13		AMP/CVD
MW-26B	02/11/19	0848	TOC	122.14	137.05	14.91	121.44	-0.70		
MW-26C	02/11/19	0839	TOC	117.85	137.22	19.37	124.60	+6.75		↓

msl = Mean sea level
ft = feet

HARGIS + ASSOCIATES, INC.

STATIC WATER LEVEL DATA SHEET

MONTH/YEAR: FEBRUARY 2019

METHOD OF MEASUREMENT/SOUNDER IDENTIFIER: FLAT TAPE ELECTRIC SOUNDER #_____

PROJECT NUMBER: 532.30

WELL IDENTIFIER	DATE	TIME	MEASURING POINT	DEPTH TO WATER FROM REFERENCE POINT (+feet)	REFERENCE POINT ELEVATION (ft msl)	WATER LEVEL ELEVATION (ft msl)	NOVEMBER 2018 PREVIOUS DEPTH TO WATER (ft)	CHANGE IN WATER LEVEL (± ft)	COMMENTS	INITIALS
MW-27	02/ 11 /19	809	TOST	~~119.65~~ 117.39	137.16	19.77	124.26	+6.87		AMD/CVD
MW-28	02/ 11 /19	910	TOST	122.10	140.77	18.67	128.31	+6.21		↓
MW-29	02/ /19				139.81		127.88		Totalizer: Pumping? (Not pumping during last WL 11/06/18)	
MW-30A	02/ /19				129.44		117.70			
MW-30B	02/ /19				129.39		114.36			
MW-31	02/ /19				119.60		107.14			
MW-32A	02/ /19				92.88		82.25			
MW-32B	02/ /19				92.89		81.51			
MW-32C	02/ ~~11~~ /19	~~1210~~	~~TOST~~		92.88		76.20			
MW-33	02/ /19				83.19		73.45			
MW-34A	02/ 11 /19	1212	TOST	139.05	153.25	14.20	149.91	+10.86		AMD/CVD
MW-34B	02/ 11 /19	1216	TOST	135.71	153.11	17.40	141.67	+5.96		↓
MW-34C	02/ 11 /19	1210	TOST	133.81	153.29	19.48	140.66	+6.85		↓
MW-35A	02/ /19				93.57		83.41			
MW-35B	02/ /19				93.56		89.32			
MW-35C	02/ /19			1	93.55		82.91			
MW-36	02/ 11 /19	1014	TOST	69.34	86.65	17.31	77.37	+8.03		AMD/CVD
MW-37	02/ 11 /19	1304	TOST	137.04	155.60	18.56	142.32	+5.28		↓
MW-38	02/ 11 /19	1300	TOST	146.05	154.90	8.85	153.90	+7.85		↓
MW-39	02/ 11 /19	1034	TOST	67.10	84.25	17.15	75.45	+8.35		↓

msl = Mean sea level

ft = feet

HARGIS + ASSOCIATES, INC.

STATIC WATER LEVEL DATA SHEET

MONTH/YEAR: FEBRUARY 2019

METHOD OF MEASUREMENT/SOUNDER IDENTIFIER: **FLAT TAPE ELECTRIC SOUNDER #_____**

PROJECT NUMBER: **532.30**

WELL IDENTIFIER	DATE	TIME	MEASURING POINT	DEPTH TO WATER FROM REFERENCE POINT (+feet)	REFERENCE POINT ELEVATION (ft msl)	WATER LEVEL ELEVATION (ft msl)	NOVEMBER 2018 PREVIOUS DEPTH TO WATER (ft)	CHANGE IN WATER LEVEL (± ft)	COMMENTS	INITIALS
MW-40	02/ /19				123.40		109.71			
MW-41	02/11/19	1332	TOST	138.65	155.60	16.95	144.30	+5.65		AMD/CVP
EW-01	02/ /19				141.07		126.86		SOUNDING TUBE TO 172.65 Totalizer: Pumping?	
EW-02	02/ /19				132.97		125.55		Totalizer: Pumping?	

msl = Mean sea level
ft = feet

HARGIS + ASSOCIATES, INC.

FEBRUARY 2019 GROUNDWATER SAMPLE PLAN
TEAM 1

QA/QC	Total VOC's	1,4-Dixoane	APPROX. GALLONS	ESTIMATED TIME (minutes)	WELL IDENTIFIER	HYDROGEOLOGIC ZONE	FEBRUARY 2019 SAMPLING SCHEDULE	SAMPLE METHOD	
	ND	< 0.20	252	21	MW-40	Deep; B	VOCs; 1,4-Dioxane	Ded.240V	
	ND	< 0.20	16	90	~~MW-09~~	Water Table; C	VOCs; 1,4-Dioxane	Redi-flo/Bailer	
	1942	370	1.1	21	~~P-07~~	Perched Zone	VOCs; 1,4-Dioxane (8270 MOD)	Bailer	
	RB	0.41	< 0.20	187	34	~~MW-26C~~	Deep; B	VOCs; 1,4-Dioxane	Redi-flo	200'
	~~RB~~	0.9	< 0.20	133	65	~~MW-18~~	Deep; A	VOCs; 1,4-Dioxane	Redi-flo	192'
		2.8	< 0.20	27	18	~~MW-13~~	Water Table; AB	VOCs; 1,4-Dioxane	Redi-flo	157'
	RB	3.3	NS	19	28	~~MW-06~~	Water Table; D	VOCs	Redi-flo	186'
		4.3	< 0.20	110	36	~~MW-20~~	Water Table; D	VOCs; 1,4-Dioxane	Redi-flo	196'
		7.2	2.1	20	29	~~P-09~~	Perched Zone	VOCs; 1,4-Dioxane	Redi-flo	128'
		8.9	NS	24	32	~~MW-15~~	Water Table; AB	VOCs	Redi-flo	167'
		169	2.4	22	18	~~MW-08~~	Water Table; BC	VOCs; 1,4-Dioxane	Redi-flo	163'
	~~SPT/DUP~~	588	60	118	49	~~MW-16~~	Water Table; B	VOCs; 1,4-Dioxane (8270 MOD)	Redi-flo	176.5'

NOTES

A MS and MSD (3x40ml VOA and 1L amber) should be collected every day/ alternating 1,4-Dioxane methods as indicated.

1,4-Dioxane analysis method is 8270 SIM unless specified otherwise (if historical detect is > 5.0 ug/l MOD is used).

1 = Day - # refers to the day scheduled to sample and the corresponding dedicated pipestand to use: ND=1; 0-10=2; 10 - 100=3; >100=4

Wells with dedicated pumps should follow concentration order when possible.

RB = Rinsate blank taken on non-dedicated equipment each day- will vary with schedule and should be confirmed with both teams each morning.

HARGIS + ASSOCIATES, INC.

FEBRUARY 2019 GROUNDWATER SAMPLE PLAN
TEAM 2

QA/QC	Total VOC's	1,4-Dixoane	APPROX. GALLONS	ESTIMATED TIME (minutes)	WELL IDENTIFIER	HYDROGEOLOGIC ZONE	FEBRUARY 2019 SAMPLING SCHEDULE	SAMPLE METHOD
~~SPT/DUP~~	83	55	132	11	~~EW-01~~	Deep; B	VOCs; 1,4-Dioxane (8270 MOD)	Dedicated
	922	310	230	10	~~MW-21~~	Water Table; BC	VOCs; 1,4-Dioxane (8270 MOD)	Dedicated
	ND	< 0.20	660	50	~~MW-32A~~	Deep; AB	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	963	95	~~MW-32C~~	Water Table; C	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	1156	58	~~MW-35C~~	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	543	29	~~MW-37~~	Deep; D	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	141	30	MW-38	Deep; A	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	857	38	~~MW-39~~	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
✓ ✓ 1.5/3 SV	3.7	< 0.20	900	49	~~MW-33~~	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
	22	7.7	159	29	~~MW-41~~	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
✓ ✓ 1.5/3 SV	53	7.3	974	75	~~MW-36~~	Deep; B	VOCs; 1,4-Dioxane (8270 MOD)	Ded.240V
SPT/DUP ✓ ✓ 1.5/3 SV	190	6.9	812	67	~~MW-32B~~	Deep; B	VOCs; 1,4-Dioxane (8270 MOD)	Ded.240V

NOTE
1 = Day - # refers to the day scheduled to sample and the corresponding dedicated pipestand to use: ND=1; 0-10=2; 10 - 100=3; >100=4
A **MS** and **MSD** (3x40ml VOA and 1L amber) should be collected every day/ alternating 1,4-Dioxane methods as indicated.
1,4-Dioxane analysis method is 8270 SIM unless specified otherwise (if historical detect is > 5.0 ug/l MOD is used).
Wells with dedicated pumps should follow concentration order when possible.

HARGIS + ASSOCIATES, INC.

FEBRUARY 2019 GROUNDWATER SAMPLE PLAN
SUPPLEMENTAL (TEAMS DIVIDE AND CONQUER)

QA/QC	Total VOC's	1,4-Dixoane	APPROX. GALLONS	ESTIMATED TIME (minutes)	WELL IDENTIFIER	HYDROGEOLOGIC ZONE	FEBRUARY 2019 SAMPLING SCHEDULE	PURGE METHOD
	ND	< 0.20	170	17	~~MW-34A~~	Deep; A	VOCs; 1,4-Dioxane	Ded 240V
	36	17	180	10	~~MW-34B~~	Deep; B	VOCs; 1,4-Dioxane (8270 MOD)	Ded 240V
	ND	< 0.20	215	15	~~MW-34C~~	Deep; BC	VOCs; 1,4-Dioxane	Ded 240V
	ND	< 0.20	110	12	~~MW-28~~	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	456	38	~~MW-24~~	Deep; C	VOCs; 1,4-Dioxane	Ded.240V
	0.86	< 0.20	102	17	~~MW-27~~	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
	0.74	< 0.20	64	11	~~MW-30A~~	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
✓ ✓ SPT/DUP	105	0.49	132	26	~~MW-30B~~	Deep; BC	VOCs; 1,4-Dioxane	Ded.240V
	152	4.7	264	24	~~MW-31~~	Deep; B	VOCs; 1,4-Dioxane (8270 MOD)	Ded.240V

NOTES
1 = Day - # refers to the day scheduled to sample and the corresponding dedicated pipestand to use: ND=1; 0-10=2; 10 - 100=3; >100=4
An **MS** and **MSD** (3x40ml VOA and 1L amber) should be collected every day/ alternating 1,4-Dioxane methods as indicated.
1,4-Dioxane analysis method is 8270 SIM unless specified otherwise (if historical detect is > 5.0 ug/l MOD is used).
Wells with dedicated pumps should follow concentration order when possible.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/12/18 TASK: 532.30 WELL ID: MW-26C

Time 808 Static DTW (ft below reference point)	116.91	Casing Volume (CV) (gallons) 62	3 CV (gallons) 186	Weather Conditions	Initials: AMD/CVD/RES
Casing Total Depth (ft below reference point)	499	Purging Device grundfos	Sampling Device ded. tubing	Time 813 Temp. 65	Begin Purge 0828 End Purge 1001
Water Column (feet)	382.09	Pump: Depth (ft brp) 200 Type MPI	Voltage 115 HP 0.5	Skies clear	Gallons Purged 138 CVs Purged 2.2
Casing Capacity (Diameter 2") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) — From —	DTW (ft brp) 117.55 Time 1001

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0828	116.91	0	0			PUMP ON					
0845	117.47	25.5	0.41	23.3	9.15	441.0	229.0	0.29	1.33	399	Q= 1.5 gpm
0900	117.49	48	0.77	23.4	8.83	507.7	183.6	0.18	0.19	399	
0915	117.48	70.5	1.13	23.4	7.62	803	166.5	0.44	0.15	399	
0930	117.50	93	1.50	23.6	7.75	788	146.2	0.27	0.21	399	
0945	117.48	115.5	1.86	23.6	7.74	808	125.0	0.33	0.25	399	
0958	117.55	135	2.2	23.7	7.73	810	103.3	0.25	0.70	399	
1000	117.55	138	2.2	COLLECT SAMPLE							
1001	117.55	138	2.2	PUMP OFF							

SAMPLE COLLECTION SAMPLE TIME 1000

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / (BLANKS?) (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Rinsate Blank collected. RB-021219 @ 1010

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/12/19 TASK: 532.30 WELL ID: MW-34A

Time 1525 Static DTW (ft below reference point)	138.70	Screen ~~Casing~~ Volume (~~CV~~) (gallons) 53 SV 3 ~~CV~~ SV (gallons) 159	Weather Conditions	Initials: AMD/CVD/RES
Casing Total Depth (ft below reference point)	280	Purging Device ded. pump Sampling Device NO pipestand	Time 1527 Temp. 65	Begin Purge 1540 End Purge 1556
pump to screen Water Column (feet)	80	Pump: Depth (ft brp) 200 Type grundfos Voltage 240 HP -	Skies cloudy	Gallons Purged 174 CVs Purged 3.2
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) - From -	DTW (ft brp) 139.79 Time 1556

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1540	138.70	0	0	PUMP ON							Q = 18 gpm
1542	141.60	36	0.67	21.3	7.22	1368	175.6	6.53	38.5	-	
1545	141.59	90	1.69	21.4	7.17	~~2099~~ NM	204.3	6.31	13.7	-	
1548	139.80	112.5	2.12	21.7	7.17	~~2177~~ NM	214.6	5.17	6.94	-	Q = 7.5 gpm
1550	139.78	127.5	2.40	21.8	7.15	~~2269~~ 1374	228.6	4.94	3.41	-	
1552	139.79	142.5	2.68	21.8	7.14	1378	232.6	~~2.86~~ 4.81	2.86	-	
1554	139.79	159	3.0	21.8	7.14	1371	232.7	4.77	2.02	-	COLLECT SAMPLE
1556	NM	174	3.2	PUMP OFF							

SAMPLE COLLECTION SAMPLE TIME 1554

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/13/19 TASK: 532.30 WELL ID: MW-15

Time 0809 Static DTW (ft below reference point)	130.44	Casing Volume (CV) (gallons) 6.6	3 CV (gallons) 19.8	Weather Conditions	Initials: AMD/CVP/RES
Casing Total Depth (ft below reference point)	170.8	Purging Device grundfos	Sampling Device ded. tubing	Time 0810 Temp. 60	Begin Purge 0858 End Purge 0924
Water Column (feet)	40.36	Pump: Depth (ft brp) 167 Type MP1	Voltage 115 HP 0.5	Skies overcast	Gallons Purged 21 CVs Purged 3.2
Casing Capacity (Diameter 2 ") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) - From -	DTW (ft brp) 131.05 Time 0926

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0858	130.44	0	0	—	—	PUMP ON		—	—	—	
0902	130.95	3	0.45	19.4	7.20	1688	286.9	5.28	NM	380	Q= 0.75 gpm
0907	131.08	6.75	1.0	24.6	7.09	1885	279.5	3.90	24.2	380	
0911	131.05	9.74	1.48	24.5	7.09	1891	276.3	3.77	20.1	380	
0916	131.05	13.5	2.0	24.5	7.09	1890	274.6	3.63	9.42	380	
0920	131.05	16.5	2.5	24.4	7.09	1891	274.8	3.53	7.23	380	
0924	131.05	19.5	3.0	24.4	7.09	1890	274.9	3.43	6.0	380	COLLECT SAMPLE
0926	131.05	21	3.2	—	—	PUMP	OFF	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 0924

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/13/19 **TASK:** 532.30 **WELL ID:** EW-01

Time 1202 Static DTW (ft below reference point)	120.80	Casing Volume (CV) (gallons) 44.3 3 CV (gallons) 133	Weather Conditions	Initials: AMO/CVO/RES/RHH
Casing Total Depth (ft below reference point)	188	Purging Device ded pump Sampling Device ded. sample pump	Time 1203 Temp. 60	Begin Purge 1204 End Purge 1217
Water Column (feet)	67.2	Pump: Depth (ft brp) – Type – Voltage – HP –	Skies light rain	Gallons Purged 156 CVs Purged 3.4
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) – From –	DTW (ft brp) 121.34 Time 1217

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1204	120.80	0	0	Begin Purge							
1205	121.31	12	0.27	20.5	7.28	1530	272.4	6.26	4.80	–	Q = 12 gpm
1207	121.34	36	0.81	20.9	7.33	1497	274.3	5.69	2.81	–	
1209	121.36	60	1.35	21.2	7.35	1489	273.1	6.69	1.23	–	
1210	121.39	72	1.63	21.2	7.35	1485	272.3	6.81	1.20	–	
1212	121.36	96	2.17	21.2	7.31	1484	272.5	6.73	1.08	–	
1214	121.34	120	2.71	21.3	7.31	1479	271.3	5.99	NM	–	
1215	121.34	132	3.0	COLLECT SAMPLE						–	
1217	NM	156	3.4	End Purge							

SAMPLE COLLECTION SAMPLE TIME 1215

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/13/19 **TASK:** 532.30 **WELL ID:** MW-21

Time 1222 Static DTW (ft below reference point)	116.58	Casing Volume (CV) (gallons) 76	3 CV (gallons) 228	Weather Conditions	Initials: AMD/CVD/RES/RHM
Casing Total Depth (ft below reference point)	232	Purging Device ded pump	Sampling Device ded sample port	Time 1220 Temp. 60	Begin Purge 1225 End Purge 1237
Water Column (feet)	115.42	Pump: Depth (ft brp) - Type -	Voltage - HP -	Skies raining	Gallons Purged 276 CVs Purged 3.6
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) - From -	DTW (ft brp) 133.99 Time 1237

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1225	116.58	0	0			Begin Purge					
1227	132.54	46	0.60	21.0	7.38	994	274.7	2.01	2.16	-	Q = 23 gpm
1229	132.88	92	1.21	21.3	7.26	2071	272.3	2.39	2.21	-	
1230	133.30	115	1.51	21.3	7.28	2096	272.3	2.07	1.06	-	
1232	133.89	161	2.12	21.2	7.26	2098	272.0	2.16	0.44	-	
1235	133.99	230	3.0	21.3	7.28	2096	272.1	2.89	0.18	-	COLLECT SAMPLE
1237	NM	276	3.6			End Purge					

SAMPLE COLLECTION SAMPLE TIME 1235

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/13/19 TASK: 532.30 WELL ID: MW-34C

Time 1316 Static DTW (ft below reference point)	133.65	Screen SV Casing Volume (CV) (gallons) 64 3 CV (gallons) 192	Weather Conditions	Initials: AMD/CVD/RES
Casing Total Depth (ft below reference point)	576	Purging Device ded pump Sampling Device ND pipestand	Time 1317 Temp. 60	Begin Purge 1325 End Purge 1341
pump to screen Water Column (feet)	442.35	Pump: Depth (ft brp) 470 Type grundfos Voltage 240 HP —	Skies overcast	Gallons Purged 224 CVs Purged 3.5
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) 2 From W	DTW (ft brp) 153.21 Time 1339

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1325	133.65	0	0	PUMP ON							
1327	150.90	28	0.4	21.3	7.56	816	191.0	0.67	~~45~~ 0.5 AMD 2/13/19	—	Q = 14 gpm
1330	152.00	70	1.1	21.3	7.30	763	137.3	0.18	0.33	—	
1332	152.38	98	1.5	21.9	7.67	936	147.6	0.15	6.19	—	
1334	152.75	126	2.0	21.9	7.65	942	149.9	0.14	0.37	—	
1337	153.04	168	2.6	21.9	7.63	942	150.0	0.14	NM	—	
1339	153.21	196	3.0	21.9	7.62	942	149.8	0.14	0.46	—	COLLECT SAMPLE
1341	NM	224	3.5	PUMP OFF							

SAMPLE COLLECTION SAMPLE TIME 1339

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/13/19 TASK: 532.30 WELL ID: MW-34B

Time 1350 Static DTW (ft below reference point)	135.40	Screen SV Casing Volume (~~CV~~) (gallons) 50	SV 3 CV (gallons) 150	Weather Conditions	Initials: AMD/CVD/RES
Casing Total Depth (ft below reference point)	536	Purging Device ded. pump	Sampling Device 10-100 pipestand	Time 1355 Temp. 60	Begin Purge 1405 End Purge 1418
pump to screen Water Column (feet)	76	Pump: Depth (ft brp) 460 Type grundfos Voltage 240 HP -		Skies overcast	Gallons Purged 182 CVs Purged 3.6
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) - From -	DTW (ft brp) 137.34 Time 1416

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1405	137.10	0	0	—	—	PUMP	ON	—	—	—	
1407	137.10	28	0.56	21.6	7.42	859	184.2	0.68	2.02	-	Q= 14 gpm
1408	137.19	42	0.84	21.7	7.48	850	189.8	0.77	12.1	-	
1410	137.28	70	1.4	21.7	7.49	850	193.8	0.85	8.73	-	
1411	137.28	84	1.68	21.3	7.49	852	196.0	0.88	5.01	-	
1413	137.30	112	2.24	21.3	7.49	850	200.4	0.91	2.42	-	
1416	137.34	154	3.1	21.6	7.49	849	201.4	0.93	1.97	-	
1418	NM	182	3.6	—	—	PUMP	OFF	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 1416

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/13/19 TASK: 532.30 WELL ID: MW-24

Time 1458 Static DTW (ft below reference point)	119.08	Casing Volume (CV) (gallons) 139	3 CV (gallons) 417	Weather Conditions	Initials: AMD/CVD/RES
Casing Total Depth (ft below reference point)	330	Purging Device ded pump	Sampling Device ND pipestand	Time 1500 Temp. 55	Begin Purge 1522 End Purge 1601
Water Column (feet)	210.92	Pump: Depth (ft brp) ____ Type grundfos Voltage 240 HP —		Skies light rain	Gallons Purged 429 CVs Purged 3.1
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast x		Wind (mph) — From —	DTW (ft brp) 128.45 Time 1601

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1522	119.08	0	0			PUMP ON					
1528	127.80	66	0.47	21.8	8.29	528.6	178.1	0.11	1.85	—	Q= 11 gpm
1535	128.10	143	1.03	21.8	7.96	540	64.9	0.87	1.03		
1541	128.16	209	1.50	21.8	7.95	540	64.9	0.7	0.78	—	
1548	128.28	286	2.05	21.8	7.92	541	67.6	0.09	0.96	—	
1554	128.41	352	2.53	21.8	7.89	541	69.8	0.09	0.27	—	
1600	128.45	418	3.0	21.8	7.87	541	68.3	0.10	0.26	—	COLLECT SAMPLE
1601	NM	429	3.1			PUMP OFF					

SAMPLE COLLECTION SAMPLE TIME 1600

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/14/19 TASK: 532.30 WELL ID: MW-31

Time 1050 Static DTW (ft below reference point)	98.28	Screen ~~Casing Volume (CV)~~ (gallons) 81	SV 3 ~~CV~~ (gallons) 243	Weather Conditions	Initials: AMD/CVD
Casing Total Depth (ft below reference point)	996	Purging Device ded pump	Sampling Device >100 pipestand	Time 1054 Temp. 60	Begin Purge 1058 End Purge 1120
pump to screen Water Column (feet)	54	Pump: Depth (ft brp) 942 Type grundfos Voltage 246 HP —		Skies raining	Gallons Purged 286 CVs Purged 3.7
Casing Capacity (Diameter 6 ") (gallons per foot)	1.5	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) — From —	DTW (ft brp) 102.69 Time 1117

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1058	98.28	0	0			PUMP ON					
1101	102.69	39	0.48	20.2	7.80	1448	256.6	0.22	NM	—	Q = 13 gpm
1104	102.69	78	1.0	21.0	8.03	2241	243.3	0.23	0.93	—	
1107	102.69	117	1.44	21.2	7.59	2207	233.6	0.21	6.5	—	
1110	102.69	156	1.93	21.2	7.51	1964	233.3	0.23	0.89	—	
1113	102.69	195	2.40	21.2	7.51	1710	236.1	0.36	6.53	—	
1117	102.69	247	3.0	21.2	7.51	1622	237.3	0.39	0.61	—	
1120	NM	286	3.5	21.2	7.51	1608	236.9	0.38	0.53	—	COLLECT SAMPLE
1121	102.69	299	3.7			PUMP OFF					

SAMPLE COLLECTION SAMPLE TIME 1120

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	3	1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MS/MSD collected

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/15/19 TASK: 532.30 WELL ID: MW-09

Time 0751 Static DTW (ft below reference point)	156.29	Casing Volume (CV) (gallons) 5.7	3 CV (gallons) 17	Weather Conditions	Initials: AMD/CVO
Casing Total Depth (ft below reference point)	191	Purging Device bailer	Sampling Device bailer	Time 0800 Temp. 65	Begin Purge 0755 End Purge 0926
Water Column (feet)	34.71	Pump: Depth (ft brp) - Type - Voltage - HP -		Skies clear	Gallons Purged 15 CVs Purged 2.63
Casing Capacity (Diameter 2") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow - Fast -		Wind (mph) - From -	DTW (ft brp) 156.45 Time 0910

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0755	156.29	0	0	Begin Purging							
0810	NM	2	0.35	20.0	7.00	3185	341.9	3.40	17.7	-	
0830	156.48	6	1.05	20.5	7.26	3250	312.0	3.70	NM	-	
0850	NM	9	1.57	21.0	7.19	3241	311.0	3.70	65.3	-	
0910	156.45	13	2.28	20.8	7.16	3238	310.6	3.59	20.3	-	
0925	NM	15	2.63	20.6	7.15	3235	308.8	3.61	19.3	-	COLLECT SAMPLE
0926	156.43	15	2.63	End Purging							

SAMPLE COLLECTION SAMPLE TIME 0925

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/19/2019 **TASK:** 932.30 **WELL ID:** MW-08

Time 1335 Static DTW (ft below reference point)	132.10	Casing Volume (CV) (gallons) 5.6	3 CV (gallons) 16.6	Weather Conditions	Initials: NES / DJS
Casing Total Depth (ft below reference point)	166.10	Purging Device grundfos	Sampling Device ~~47~~ died. tubing	Time 1336 Temp. 60	Begin Purge 1336 End Purge 1355
Water Column (feet)	34.00	Pump: Depth (ft brp) 163 Type MP1	Voltage 115 HP 0.5	Skies rain	Gallons Purged 19 CVs Purged 3.4
Casing Capacity (Diameter 2 ") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) — From —	DTW (ft brp) 134.19 Time 1353

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1336	132.10	0	0			Begin Purge					~~Q ≈ 1.5 gpm~~
1338	133.8	3	0.54	23.5	7.56	2604	29.2	4.82	9.85	277	Q ≈ 1.5 gpm
1341	133.91	6	1.1	23.2	7.31	2390	32.4	4.03	8.31	277	
1344	134.08	9	1.6	22.8	7.27	2311	34.9	4.01	6.51	277	
1347	134.13	12	2.1	22.5	7.25	2342	36.3	3.96	2.01	277	
1350	134.17	15	2.7	22.7	7.21	2391	39.4	3.43	1.99	277	
1353	134.19	18	3.2	22.9	7.22	2387	40.1	3.21	1.24	277	
1355	NM	19	3.4			End Purge					

SAMPLE COLLECTION SAMPLE TIME 1355

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/19/19 **TASK:** 532.30 **WELL ID:** MW18

Time 1000 Static DTW (ft below reference point)	121.62	Casing Volume (CV) (gallons) 47.8 3 CV (gallons) 143.5	Weather Conditions	Initials: NES/DJS
Casing Total Depth (ft below reference point)	194.10	Purging Device grundfos Sampling Device ded. tubing	Time 1000 Temp. 60	Begin Purge 1450 End Purge 1605
Water Column (feet)	72.48	Pump: Depth (ft brp) 192 Type MP1 Voltage 115 HP 0.5	Skies cloudy	Gallons Purged 150 CVs Purged 3.1
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) - From -	DTW (ft brp) 145.21 Time 1602

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1450	121.62	0	0	~~21.~~		Begin	Purging				GPM ≈ 2 gpm
1502	142.85	24	0.5	21.9	7.21	860	62.7	6.05	14.7	328	
1514	142.90	48	1	22.1	7.22	1112	65.1	4.77	8.32	328	
1526	144.35	72	1.5	22.1	7.24	1365	66.5	4.72	5.07	328	
1538	144.97	96	2	22.0	7.20	1485	65.1	4.75	3.21	328	
1550	145.14	120	2.5	22.1	7.20	1523	65.5	5.40	2.47	328	
1602	145.21	144	3	22.0	7.21	1548	66.3	5.52	2.58	328	
1605	NM	150	3.1			End	Purging				Sampled at 16:05
											3x 8260B 40mL VOA's
											1x 1L 1,4-Dioxane Amber

SAMPLE COLLECTION SAMPLE TIME 1605

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 7/20/19 **TASK:** 532.30 **WELL ID:** P-9

Time 838 Static DTW (ft below reference point)	120.85	Casing Volume (CV) (gallons) 6.024 3 CV (gallons) 18.12	Weather Conditions
Casing Total Depth (ft below reference point)	130	Purging Device Grundfos Sampling Device ded tubing	Time 840 Temp. 55
Water Column (feet)	9.15	Pump: Depth (ft brp) 125' Type MPE Voltage 115 HP 0.5	Skies clear
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) 1 From S

Initials: NES/DJS
Begin Purge 0927 End Purge 0954
Gallons Purged 20 CVs Purged 3.3
DTW (ft brp) 123.65 Time 0952

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0927	120.85	0	0	—	—	Begin Purge	—	—	—	—	Q ≈ 0.75 gpm
0931	122.51	3	0.5	22.0	6.79	5142	81.7	6.21	3.61	287	
0935	122.62	6	1	22.5	6.76	5134	66.1	4.43	3.52	287	
0939	123.62	9	1.5	23.0	6.75	5123	58.7	3.61	3.16	287	
0943	123.22	12	2	23.0	6.75	5137	57.8	3.63	2.51	287	
0947	123.51	15	2.5	23.1	6.74	5135	57.6	3.50	2.61	287	
0952	123.65	18.75	3.1	23.2	6.74	5130	57.5	3.44	2.22	287	
0954	NM	20	3.3	—	—	End Purge	—	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 0954

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)
RB-072819 @ 1000

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/20/19 TASK: 532.30 WELL ID: MW-06

Time 1104 Static DTW (ft below reference point)	156.50	Casing Volume (CV) (gallons) 5.28	3 CV (gallons) 15.9	Weather Conditions	Initials: NES/DJS
Casing Total Depth (ft below reference point)	188.92	Purging Device grundfos	Sampling Device ded tubing	Time 1100 Temp. 60	Begin Purge 1105 End Purge 1135
Water Column (feet)	32.42	Pump: Depth (ft brp) 186 Type MP1	Voltage 115 ~~115~~ HP 0.5	Skies cloudy	Gallons Purged 19 CVs Purged 3.5
Casing Capacity (Diameter 4") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) — From —	DTW (ft brp) 169.25 Time 1127

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1104	156.50	0	0	—	—	Start	Purge	—	—		Q ≈ 0.7 gpm
1109	165.43	3	0.6	22.1	7.27	2587	71.8	5.92	82.8	299	
1113	168.37	6	1.1	21.7	7.27	2573	71.3	4.48	49.5	299	
1117	168.62	9	1.7	21.8	7.25	2562	71.2	4.38	40.3	299	
1121	168.96	12	2.3	23.0	7.27	2563	72.6	4.73	18.9	299	
1125	169.20	15	2.8	23.4	7.26	2562	72.1	4.61	10.43	299	
1127	169.25	16	3	23.2	7.27	2562	72.0	4.40	8.92	299	
1135	NM	19	3.5	—	—	End	Purge	—	—		

SAMPLE COLLECTION SAMPLE TIME 1135

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/20/19 **TASK:** 532.30 **WELL ID:** MW-16

Time 1326 Static DTW (ft below reference point)	121.69	Casing Volume (CV) (gallons) 37.5	3 CV (gallons) 112.5	Weather Conditions	Initials: NES/DJS
Casing Total Depth (ft below reference point)	178.50	Purging Device grundfos	Sampling Device ded. tubing	Time 1330 Temp. 60	Begin Purge 1327 End Purge 1415
Water Column (feet)	56.81	Pump: Depth (ft brp) 176.5 Type MPI	Voltage 151 HP 0.5	Skies cloudy	Gallons Purged 120 CVs Purged 3.2
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____	Fast X	Wind (mph) — From —	DTW (ft brp) 123.98 Time 1410

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1327	121.69	0	0	—	—	Begin Purging	—	—	—	—	Q≈2.5 gpm
1334	123.09	18	0.5	22.1	7.32	1701	70.1	6.53	4.16	329	
1341	123.95	37	1	22.1	7.26	1592	62.4	3.91	3.32	329	
1348	123.95	55	1.5	21.9	7.31	1626	61.0	3.38	5.21	329	
1355	123.96	74	2.0	21.8	7.31	1688	60.6	3.88	1.95	329	
1402	123.97	92	2.5	21.9	7.32	1733	58.8	4.11	1.62	329	
1410	123.98	113	3	21.8	7.32	1726	56.5	4.14	1.22	329	
1415	NM	120	3.2	—	—	End Purging	—	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 1420

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/14/19 TASK: 532.30 WELL ID: P-07

Time 1530 Static DTW (ft below reference point)	111.60	Casing Volume (CV) (gallons) 0.77 3 CV (gallons) 2.33	Weather Conditions
Casing Total Depth (ft below reference point)	116.38	Purging Device bailer Sampling Device bailer	Time 1530 Temp. 65
Water Column (feet)	4.78	Pump: Depth (ft brp) – Type – Voltage – HP –	Skies cloudy
Casing Capacity (Diameter 2") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) – From –

Initials: AMD/CVD

Begin Purge 1530 End Purge 1630

Gallons Purged 2.33 CVs Purged 3.0

DTW (ft brp) 114.96 Time 1620

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1530	111.60	0	0			Begin Purge					
1535	113.46	0.25	0.32	20.1	7.32	3128	287.3	4.77	28.6	–	
1540	NM	0.80	1.0	21.2	7.32	3078	280.0	5.38	18.3	–	
1546	114.70	1.25	1.62	20.6	7.32	1645	276.2	5.18	54	–	
1602	NM	1.75	2.27	20.9	7.25	3140	279.6	4.47	NM	–	
1620	114.96	2.33	3.0	20.8	7.33	3107	270.0	4.95	32	–	
1630	NM	2.33	3.0			End Purge					

SAMPLE COLLECTION SAMPLE TIME 1630

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	ww.	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/19/19 **TASK:** 532.30 **WELL ID:** MW-13

Time 830 Static DTW (ft below reference point)	121.00	Casing Volume (CV) (gallons) 6.2	3 CV (gallons) 18.6	Weather Conditions	Initials: NES/DTS
Casing Total Depth (ft below reference point)	159	Purging Device Grundfos	Sampling Device ded tube	Time 0830 Temp. 60	Begin Purge 0907 End Purge 0925
Water Column (feet)	38	Pump: Depth (ft brp) 157 Type MP1	Voltage ~~230~~ 115 HP 0.5	Skies cloudy	Gallons Purged 22 CVs Purged 3.5
Casing Capacity (Diameter 2") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow ____ Fast ✓		Wind (mph) — From —	DTW (ft brp) 122.15 Time 0920

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0907	121.00	0	0			Begin	Purge				Q ≈ 1.5
0909	122.05	3	0.5	20.7	7.45	1679	91.5	6.62	16.8	281	
0911	122.08	6	1	21.3	7.54	1681	84.5	6.52	5.05	281	
0913	122.10	9	1.5	21.6	7.55	16 pU	79.0	6.40	3.78	281	
0915	122.12	12	1.9	21.8	7.58	1685	77.2	6.26	2.28	281	
0917	122.13	15	2.4	22.0	7.58	1690	74.4	6.21	1.80	281	
0920	122.15	18.5	3.1	22.0	7.58	1696	72.1	6.23	NM	281	
0925	NM	22	3.5			End	Purge				

SAMPLE COLLECTION SAMPLE TIME 0925

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/20/19 **TASK:** 532.30 **WELL ID:** MW-20

Time 15:37 Static DTW (ft below reference point)	153.74	Casing Volume (CV) (gallons) 29.2	3 CV (gallons) 87.6	Weather Conditions	Initials: NES/PJS
Casing Total Depth (ft below reference point)	198.20	Purging Device grndfos	Sampling Device ded tube	Time 1530 Temp. 60	Begin Purge 1539 End Purge 1611
Water Column (feet)	44.26	Pump: Depth (ft brp) 194 Type MP1	Voltage 115 HP 0.5	Skies cloudy	Gallons Purged 96 CVs Purged 3.3
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) — From —	DTW (ft brp) 162.11 Time 1609

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1539	153.74	0	0			Begin pumping					Q ≈ 3 gpm
1544	159.56	~~15~~	0.5	20.3	7.43	1685	85.3	9.52	20.08	364	
1549	160.86	30	1.0	21.9	7.43	1655	84.7	5.54	21.0	364	
1554	161.19	45	1.5	21.8	7.45	1683	79.9	4.41	24.9	364	
1559	161.58	60	2.0	21.0	7.51	1695	76.2	4.29	29.4	364	
1604	161.89	75	2.5	22.0	7.47	1686	75.9	4.24	18.9	364	
1609	162.11	90	3.1	20.3	7.53	1693	73.9	4.27	17.5	364	
1611	NM	96	3.3			End pumping					

SAMPLE COLLECTION SAMPLE TIME 1610

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/13/19 **TASK:** 532.30 **WELL ID:** MW-40

Time 1400 Static DTW (ft below reference point)	100.95	Screen ~~Casing~~ Volume (~~CV~~) (gallons) 75	3 ~~CV~~ (gallons) 225	Weather Conditions
Casing Total Depth (ft below reference point)	970	Purging Device ded. pump	Sampling Device NO pipestand	Time 1400 Temp. 60
pump to screen Water Column (feet)	50	Pump: Depth (ft brp) 920 Type grundfos	Voltage 240 HP	Skies overcast
Casing Capacity (Diameter 6 ") (gallons per foot)	1.5	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) — From —

Initials:	AMP/CVD
Begin Purge —	End Purge —
Gallons Purged —	CVs Purged —
DTW (ft brp) —	Time —

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
				WELL PUMP MALFUNCTION							
				NO SAMPLE COLLECTED							
				PUMP WON'T TURN ON							

SAMPLE COLLECTION SAMPLE TIME N/A

ANALYSIS	QUANTITY	TYPE
8260B VOCs		40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/14/19 TASK: 532.30 WELL ID: MW-38

Time 1355 Static DTW (ft below reference point)	146.05	Casing Volume (CV) (gallons) 36	3 CV (gallons) 108	Weather Conditions	Initials: AMP/NES
Casing Total Depth (ft below reference point)	200	Purging Device ded pump	Sampling Device ND pipestand	Time 1400 Temp. 60	Begin Purge – End Purge –
Water Column (feet)	53.95	Pump: Depth (ft brp) 190 Type grundfos	Voltage 240 HP –	Skies cloudy	Gallons Purged – CVs Purged –
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast x	Wind (mph) – From –	DTW (ft brp) – Time –

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
					OBSTRUCTION IN WELL DROP PIPE						
					WELL WON'T TURN ON						
						NO SAMPLE COLLECTED					

SAMPLE COLLECTION SAMPLE TIME N/A

ANALYSIS	QUANTITY	TYPE
8260B VOCs		40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/6/18 TASK: 532.30 WELL ID: EW-01

Time 1352 Static DTW (ft below reference point)	126.91	Casing Volume (CV) (gallons) 40.3 3 CV (gallons) 121	Weather Conditions	Initials: AMD/CVD/RHH/DJS
Casing Total Depth (ft below reference point)	188	Purging Device ded pump Sampling Device ded sample	Time 1354 Temp. 70	Begin Purge 1355 End Purge 1406
Water Column (feet)	61.09	Pump: Depth (ft brp) - Type - Voltage - HP -	Skies clear	Gallons Purged 132 CVs Purged 3.2
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) - From -	DTW (ft brp) 127.48 Time 1405

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1355	126.91	0	0			Begin Purge					
1356	127.39	12	0.30	24.5	7.22	1415	186.7	5.84	4.96	-	Q=12 gpm
1358	127.41	36	0.89	22.5	7.28	1312	157.7	6.44	2.02	-	
1400	127.46	70	1.73	22.0	7.33	1294	143.0	6.75	1.31	-	
1402	127.47	84	2.08	21.8	7.34	1287	138.6	6.77	0.76	-	
1404	127.48	108	2.67	21.8	7.30	1289	140.6	6.78	0.79	-	
1405	127.48	120	3.0	21.8	7.30	1288	141.6	6.78	0.63	-	COLLECT SAMPLE
1406	NM	132	3.2			End Purge					

SAMPLE COLLECTION SAMPLE TIME 1405

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/22/18 TASK: 532.30 WELL ID: EW-02

Time – Static DTW (ft below reference point)	NM	Casing Volume (CV) (gallons) – 3 CV (gallons) –	Weather Conditions	Initials: AMD/AMJ
Casing Total Depth (ft below reference point)	460	Purging Device – Sampling Device Sample port	Time 1540 Temp. 85	Begin Purge – End Purge –
Water Column (feet)	–	Pump: Depth (ft brp) – Type – Voltage – HP –	Skies clear	Gallons Purged – CVs Purged –
Casing Capacity (Diameter 8 ") (gallons per foot)	2.6	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) – From –	DTW (ft brp) – Time –

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1545	NM	–	–	25.84	7.77	1.036	83.1	4.07	9.91	–	Q ≈ 34 gpm

SAMPLE COLLECTION SAMPLE TIME 1545

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

EW-02 is an active system extraction well. Well pump was on during sample collection.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: ~~2/20/18~~ 3/1/18 TASK: 532.30 WELL ID: MW-06

Time 1330 9:30 Static DTW (ft below reference point)	149.00	Casing Volume (CV) (gallons) 6.51	3 CV (gallons) 19.5	Weather Conditions	Initials: AMD/CVD
Casing Total Depth (ft below reference point)	188.92	Purging Device Grundfos	Sampling Device ded. tubing	Time 1330 Temp. 70	Begin Purge 1343 End Purge 14:11
Water Column (feet)	39.92	Pump: Depth (ft brp) 186 Type MP1	Voltage 115 HP 0.5	Skies clear	Gallons Purged 19 CVs Purged 2.91
Casing Capacity (Diameter 2 ") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 3 From W	DTW (ft brp) 166.95 Time 14:09

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
13:43	149.00	~~0~~	~~0~~	PUMP ON							
13:45	NM	2.5	0.38	21.07	9.13	1.52	177	7.18	158	299	Q = 0.75
13:48	164.64	5	0.77	22.38	8.33	1.51	170	5.13	140	299	
13:50	165.81	~~8~~ 7	1.08	22.60	7.70	1.51	165	5.01	25.8	299	
13:57	166.73	~~12~~ 10	1.54	23.09	7.49	1.53	149	4.92	11.6	299	
14:02	166.87	14	2.15	23.46	7.60	1.55	141	~~5.09~~ 7.5	6.7	299	
14:06	166.90	17	2.61	23.54	7.53	1.55	137	5.31	4.5	299	
14:09	166.95	19	2.91	23.59	7.49	1.55	143	5.34	4.1	299	
14:11	NM	21	3.23	PUMP OFF							

SAMPLE COLLECTION SAMPLE TIME 14:16

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

VOCs only. Installed new tubing into well

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11-07-18 **TASK:** 532.30 **WELL ID:** MW-8

Time 1250 Static DTW (ft below reference point)	133.26	Casing Volume (CV) (gallons) 5.4 3 CV (gallons) 16.2	Weather Conditions	Initials: DJT, AMO
Casing Total Depth (ft below reference point)	166.10	Purging Device Grundfos Sampling Device dedi tubing	Time 1249 Temp. 70°F	Begin Purge 1322 End Purge 1340
Water Column (feet)	32.84	Pump: Depth (ft brp) 163 Type mp1 Voltage 115 HP 0.5	Skies Cloudy	Gallons Purged 21.5 CVs Purged 3.98
Casing Capacity (Diameter 2") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow ____ Fast ✓	Wind (mph) — From —	DTW (ft brp) 134.87 Time 1340

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1322	133.26	0	0	—	Begin	Purge	—			277	Q ≈ 1.25 ~~0.8~~ gpm
1326	134.69	3.75	0.69	22.2	7.10	2065	55.3	2.61	5.52	277	
1328	134.73	7.00	1.29	22.7	7.08	2159	52.0	4.02	5.15	277	
1330	134.77	9.00	1.66	22.9	7.08	2163	51.4	3.90	2.58	277	
1332	134.80	13.00	2.41	23.0	7.11	2178	54.2	3.98	2.04	277	
1335	134.86	15.25	2.82	23.0	7.11	2182	55.2	3.88	1.27	277	
1340	134.87	21.50	3.98	23.1	7.23	2195	58.6	4.34	1.07	277	
1340	NM	21.50	3.98	—	End	Purge	—				Collected samples org, dup, SPLIT org: MW-8 @1340; dup: MW-8000 @1345; SPLIT MW-8 @ 1340

SAMPLE COLLECTION SAMPLE TIME 1340

ANALYSIS	QUANTITY	TYPE
8260B VOCs	12	40 ml VOA
8270 SIM 1,4 dioxane	~~3~~ 4	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Rinsate Blank collected: RB-110718 @ 1300
dup MW-8000 @ 1345; SPLIT MW-8 @ 1340
Org: MW-8 @ 1340

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/23/18 TASK: 532.30 WELL ID: MW-09

Time 0943 Static DTW (ft below reference point)	155.08	Casing Volume (CV) (gallons) 5.85 3 CV (gallons) 17.6	Weather Conditions	Initials: AMD / AMJ
Casing Total Depth (ft below reference point)	191	Purging Device QuikBailer Sampling Device bailer	Time 0943 Temp. 80	Begin Purge 948 End Purge 1118
Water Column (feet)	35.92	Pump: Depth (ft brp) - Type - Voltage - HP -	Skies clear	Gallons Purged 16 CVs Purged 2.74
Casing Capacity (Diameter 4 2") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow X Fast	Wind (mph) - From -	DTW (ft brp) 155.10 Time 1117

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	FIELD PARAMETERS Temp. (°)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
948	155.08	0	0			BEGIN BAILING					
1005	155.14	3	0.51	25.00	7.24	2433	56.6	3.48	30.6	-	
1030	NM	7	1.20	24.23	7.17	2.417	6.2	4.63	43.6	-	
1045	NM	10	1.71	23.42	7.31	2.397	20.3	4.62	33.2	-	
1105	NM	14	2.39	24.28	7.22	2.415	-2.4	5.04	88.1	-	
1117	155.10	16	2.74	23.59	7.15	2.386	-9.2	4.57	129	-	
1118	Collect samples										

SAMPLE COLLECTION SAMPLE TIME 1118

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/27/18 TASK: 532.30 WELL ID: MW-13

Time 920 Static DTW (ft below reference point)	113.79	Casing Volume (CV) (gallons) 7.7 3 CV (gallons) 23	Weather Conditions: Time 9:20 Temp. 65
Casing Total Depth (ft below reference point)	159	Purging Device Grundfos Sampling Device del tubing	Skies partly cloudy
Water Column (feet)	45.2	Pump: Depth (ft brp) 157 Type Voltage 115 HP 0.5	Gallons Purged 27 CVs Purged 3.5
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow Fast ✓	Wind (mph) 0-2 From Var. DTW (ft brp) 141.20 Time 1001

Initials: TJF/ Begin Purge 943 End Purge 1001

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
943	113.79	0	0	—	Begin	Purge				281	Q ≅ 1.5 gpm
945	141.23	3	0.4	22.0	7.24	1366	210 ~~152~~	6.52	28.4	281	
948	141.28	7.5	1.0	22.4	7.04	1329	203.5	7.04	5.5	281	
951	141.21	12	1.6	22.6	7.20	1318	198.8	6.97	2.6	281	
953	141.25	15	1.9	22.6	7.22	1316	195.3	6.98	2.7	281	
956	141.21	19.5	2.5	22.6	7.21	1316	193.1	6.98	2.8	281	
959	141.20	24	3.1	22.6	7.21	1320	190.1	7.00	1.8	281	
1001	141.20	27	3.5	—	—	end	purge	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 1000

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/21/18 TASK: 532.30 WELL ID: MW-15

Time 1030 Static DTW (ft below reference point)	127.35	Casing Volume (CV) (gallons) 7.1	3 CV (gallons) 21.3	Weather Conditions	Initials: AMD/AMJ
Casing Total Depth (ft below reference point)	170.8	Purging Device grundfos	Sampling Device ded tubing	Time 1040 Temp. 80	Begin Purge 1050 End Purge 1122
Water Column (feet)	43.45	Pump: Depth (ft brp) 167 Type MP1	Voltage 115 HP 0.5	Skies cloudy	Gallons Purged 24 CVs Purged 3.1
Casing Capacity (Diameter 2 ") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow ____	Fast X	Wind (mph) ~ From ~	DTW (ft brp) 127.88 Time 1120

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µ-S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1050	127.35	0	0	PUMP	ON						
1053	127.82	2.25	0.32	24.00	7.47	1.207	-6.1	7.15	10.2	340	Q = 0.75 gpm
1057	127.83	5.25	0.73	24.02	7.45	1.213	-5.7	7.13	21.7	340	
1101	127.86	8.25	1.16	24.11	7.42	1.227	-4.2	7.22	14.9	340	
1105	127.86	11.25	1.58	24.25	7.40	1.261	-1.9	7.00	10.68	340	
1109	127.86	14.25	2.0	24.32	7.39	1.250	0.4	6.69	7.6	340	
1114	127.88	18	2.53	24.37	7.38	1.253	1.9	6.81	6.49	340	
1119	127.89	21.8	3.06	24.44	7.38	1.254	3.8	6.64	5.52	340	
1120	COLLECT SAMPLE										
1122	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1120

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/22/18 TASK: 532.30 WELL ID: MW-16

Time 841 Static DTW (ft below reference point)	124.96	Casing Volume (CV) (gallons) 35 3 CV (gallons) 105	Weather Conditions	Initials: AMD/AMJ
Casing Total Depth (ft below reference point)	178.50	Purging Device grundfos Sampling Device ded tubing	Time 840 Temp. 75	Begin Purge 854 End Purge 0943
Water Column (feet)	53.54	Pump: Depth (ft brp) 176.5 Type MP1 Voltage 115 HP 0.5	Skies clear	Gallons Purged 117.5 CVs Purged 3.3
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) — From —	DTW (ft brp) 128.87 Time 0938

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0854	124.96	0	0			PUMP ON					
0901	128.64	17.5	0.5	22.81	7.40	1.006	89.3	4.82	3.12	329	Q = 2.5 gpm
0908	128.77	35	1.0	22.83	7.28	0.951	67.4	4.09	2.43	329	
0915	128.80	52.5	1.5	22.84	7.33	1.016	54.3	4.15	2.05	329	
0922	128.83	70	2.0	22.84	7.32	1.027	48.1	4.51	1.96	329	
0929	128.85	87.5	2.5	22.86	7.32	1.033	42.6	4.62	1.56	329	
0938	128.87	105	3.0	22.86	7.34	1.040	35.0	4.35	1.49	329	
0940	NM	110	3.1	COLLECT		SAMPLE					
0943	NM	117.5	3.3	PUMP	OFF						

SAMPLE COLLECTION SAMPLE TIME 0940

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	3	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MS/MSD collected

RB-082218 collected @ 1005

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/21/19 TASK: 532.30 WELL ID: MW-18

Time 1413 Static DTW (ft below reference point)	130.43	Casing Volume (CV) (gallons) 42	3 CV (gallons) 126	Weather Conditions	Initials: AMD/AMJ
Casing Total Depth (ft below reference point)	194.10	Purging Device Grundfos	Sampling Device ded. tubing	Time 1440 Temp. 82	Begin Purge 1426 End Purge 1531
Water Column (feet)	63.67	Pump: Depth (ft brp) 192 Type MP1	Voltage 115 HP 0.5	Skies clear	Gallons Purged 133 CVs Purged 3.1
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ___	Fast X	Wind (mph) ___ From ___	DTW (ft brp) 152.81 Time 1529

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1426	~~Pump start~~	0	0	pump start							DTW = 137.05 Q = 2 GPM
1436	146.15	20	0.48	22.85	6.98	0.987	1.3	4.00	~~5.5~~ 3.02	328	
1446	151.99	40	0.95	22.83	7.11	1.013	-11.2	2.74	3.58	328	
1457	152.50	62	1.48	22.87	7.26	1.091	-15.1	4.03	3.09	328	
1508	152.77	84	2.00	22.85	7.32	1.125	-17.9	4.72	1.89	328	
1518	152.77	104	2.48	22.87	7.31	1.136	-16.3	5.01	1.75	328	
1529	152.81	126	3.0	22.90	7.33	1.141	-17.0	5.07	1.70	328	
1530	NM	131	3.1	COLLECT SAMPLE							
1531	NM	133	3.1	PUMP OFF							

SAMPLE COLLECTION SAMPLE TIME 1530

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/21/18 TASK: 532.30 WELL ID: MW-20

Time 1235 Static DTW (ft below reference point)	151.63	Casing Volume (CV) (gallons) 31	3 CV (gallons) 93	Weather Conditions	Initials: AMD/AMJ/TJE
Casing Total Depth (ft below reference point)	198.20	Purging Device grundfos	Sampling Device	Time 1242 Temp. 80	Begin Purge 1300 End Purge 1336
Water Column (feet)	46.57	Pump: Depth (ft brp) 196 Type MP1	Voltage 115 HP 0.5	Skies clear	Gallons Purged 110 CVs Purged 3.5
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) — From —	DTW (ft brp) 162.72 Time 1331

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1300	151.63	0	0				PUMP ON				Q≈ 3 gpm
1305	158.80	15	0.48	25.89	7.83	1.240	5.8	5.09	NM	364	
1310	159.90	30	0.94	28.35	7.83	1.248	4.4	4.99	30	364	
1316	161.51	48	1.55	24.68	7.87	1.167	-14.3	6.06	40	364	
1321	161.92	63	2.03	23.77	7.83	1.072	-15.8	10.61	27	364	
1326	162.30	78	2.52	23.52	7.84	1.056	-31.5	5.84	14.35	364	
1331	162.72	93	3.00	23.48	7.75	1.056	-30.7	5.78	11.2	364	
1332	Collect Samples										
1336	pump off										

SAMPLE COLLECTION SAMPLE TIME 1332

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane	3	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-2000 (FD) collected @ 1334

MW-20 (split) collected @ 1332

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/6/18 TASK: 532.30 WELL ID: MW-21

Time 1415 Static DTW (ft below reference point)	118.22	Casing Volume (CV) (gallons) 75 3 CV (gallons) 225	Weather Conditions	Initials: AMD/CVD/RHH/DJS
Casing Total Depth (ft below reference point)	232	Purging Device ded pump Sampling Device Sample port	Time 1415 Temp. 70	Begin Purge 1417 End Purge 1427
Water Column (feet)	113.78	Pump: Depth (ft brp) – Type – Voltage – HP –	Skies clear	Gallons Purged 230 CVs Purged 3.1
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) – From –	DTW (ft brp) 135.39 Time 1427

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1417	118.22	0	0			Begin Purge					
1419	132.11	50	0.67	22.5	7.28	2054	-11	1.87	5.75	–	Q = 25 gpm
1420	134.39	75	1.0	22.3	7.29	2058	-22	2.30	1.56	–	
1421	134.82	100	1.33	22.4	7.33	2054	-20.1	3.12	2.22	–	
1423	135.07	150	2.0	22.8	7.28	2052	-19.6	3.06	1.81	–	
1425	135.30	200	2.67	22.2	7.25	2046	-15.6	3.19	0.57	–	
1426	135.39	225	3.0	22.4	7.27	2039	-14.6	3.15	0.71	–	COLLECT SAMPLE
1427	NM	230	3.1			End	Purge				

SAMPLE COLLECTION SAMPLE TIME 1426

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	3	1 L Amber

DUPLICATES SPLITS BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 3/1/18 TASK: 532.30 WELL ID: MW-24

Time 16:15 Static DTW (ft below reference point)	110.05	Casing Volume (CV) (gallons) 145	3 CV (gallons) 435	Weather Conditions	Initials: AMD/CVD
Casing Total Depth (ft below reference point)	330	Purging Device ded pump	Sampling Device NO pipestand	Time 1615 Temp. 60	Begin Purge 1619 End Purge 1657
Water Column (feet)	219.95	Pump: Depth (ft brp)	Type grundfos Voltage 240 HP	Skies clear	Gallons Purged 456 CVs Purged 3.14
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) — From —	DTW (ft brp) 119.21 Time 16:57

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
16:19	110.05	Ø	Ø	—	—	PUMP	ON	—	—	—	
16:23	118.67	48	0.44	21.01	9.55	0.406	-125	6.72	7.0	-	Q = 12 gpm
16:31	118.91	144	1.0	21.09	8.32	0.439	-155	0.25	0.0	-	
16:37	119.01	217.5	1.5	21.09	8.20	0.440	-150	0.18	0.0	-	
16:43	119.16	290	2.0	21.08	8.15	0.440	-148	0.13	0.0	-	
16:49	119.19	360	2.5	21.06	8.08	0.440	-145	0.10	0.0	-	
16:55	119.20	432	3.0	21.05	8.04	0.440	-144	0.10	0.0	-	
16:57	119.21	456	3.14	—	—	PUMP	OFF	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 16:55

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11-07-18 **TASK:** 532.30 **WELL ID:** MW-26C

Time 0950 Static DTW (ft below reference point)	124.75	Casing Volume (CV) (gallons) 62 3 CV (gallons) 186	Weather Conditions: Time 1000 Temp. 75°F
Casing Total Depth (ft below reference point)	499	Purging Device grundfos Sampling Device ded. tubing	Skies Cloudy
Water Column (feet)	374.25	Pump: Depth (ft brp) 200 Type MP1 Voltage 115 HP 0.5	Wind (mph) — From —
Casing Capacity (Diameter 2 ") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow ____ Fast ✓	Initials: DJS, AMD; Begin Purge 0950 End Purge 1124; Gallons Purged 187 CVs Purged 3.01; DTW (ft brp) 125.41 Time 1123

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (uS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0950	124.75	0	0	~	—	Pump		on	~	288	
1006	125.38	32	0.52	22.5	8.96	473.0	-214.5	0.74	3.69	289	
1022	125.41	64	1.03	22.2	8.08	659.0	-237.7	0.65	3.61	289	
1038	125.48	96	1.55	22.3	7.74	794.0	-181.0	0.72	1.34	289	
1054	125.48	128	2.06	22.4	7.71	798.0	-171.6	0.66	1.29	289	
1110	125.41	160	2.60	22.3	7.68	799.0	-169.7	0.69	1.25	288	
1123	125.41	186	3.00	22.3	7.68	799.0	-168.7	0.67	1.12	289	
1124	NM	187	3.01	—	End	Purge		—	—	—	

SAMPLE COLLECTION SAMPLE TIME 1123

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Sampled: MW-26C @ 1123

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 3/2/18 TASK: 532.30 WELL ID: MW-27

Time 8:10 Static DTW (ft below reference point)	110.33	Casing Volume (1V) (gallons) 29.7 3 CV (gallons) 89.1	Weather Conditions: Time 810 Temp. 60
Casing Total Depth (ft below reference point)	515	Purging Device ded pump Sampling Device NP pipestand	Skies light rain
screen Water Column (feet)	45	Pump: Depth (ft brp) Type Grundfos Voltage 240 HP	Wind (mph) 0 From —
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Initials: AMD/CVD; Begin Purge 8:20 End Purge 8:37; Gallons Purged 102 CVs Purged 3.43; DTW (ft brp) 114.31 Time 8:35

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	FIELD PARAMETERS: Temp. (°)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
8:20	110.33	0	0			PUMP ON				1	
8:24	114.34	24	0.81	19.82	7.70	0.722	67	7.03	11.0	-	Q = 6 gpm
8:26	114.28	36	1.21	20.35	7.38	0.984	65	6.91	36.1	-	
8:28	114.30	48	1.62	20.53	7.61	0.999	73	6.87	38.2	-	
8:30	114.32	60	2.0	20.53	7.60	0.997	76	6.81	22.5	-	
8:33	114.30	78	2.62	20.56	7.58	0.992	81	6.71	10.2	-	
8:35	114.31	90	3.0	20.58	7.58	0.988	83	6.40	9.0	-	
8:37	NM	102	3.43			PUMP OFF				i	

SAMPLE COLLECTION SAMPLE TIME 8:35

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/07/2018 TASK: 532.30 WELL ID: MW-28

Time 1125 Static DTW (ft below reference point)	125.32	Screen Casing Volume (CV) (gallons) 29.7 ~~43~~ 5V 3CV (gallons) 89.1	Weather Conditions Time 1030 Temp. 75
Casing Total Depth (ft below reference point)	375	Purging Device ded pump Sampling Device ND pipettes	Skies cloudy
pump to screen Water Column (feet) 45	247	Pump: Depth (ft brp) 330 Type grundfos Voltage 240 HP 0.5	Wind (mph) — From —
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Initials: NEV/AMD
			Begin Purge 1034 End Purge 1046
			Gallons Purged 110 CVs Purged 3.7
			DTW (ft brp) 138.41 Time 3.7

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1034	128.32	0	0	—	—	Begin	Purge	—	—		Pump on
1035	138.02	~~14.8~~ 14.9	0.5	21.7	7.51	1.07	60.7	1.36	0.93	—	
1037	138.17	29.7	1	21.6	7.50	1.08	82.3	3.91	0.56	—	
1038	138.20	44.6	1.5	21.6	7.49	1.10	93.4	4.30	0.42	—	
1040	138.29	59.4	2	21.6	7.50	1.10	100.6	4.36	0.38	—	
1042	138.34	~~74.2~~	2.5	21.7	7.50	1.10	103.4	4.39	0.40	—	
1043	138.41	89.1	3	21.7	7.50	1.10	104.8	4.37	0.29	—	
1046	NM	110	3.7	—	—	End	Purge	—	—	—	Pump off

SAMPLE COLLECTION SAMPLE TIME ____

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane	3	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-28 MS/MSD @ 1045

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/23/18 TASK: 532.30 WELL ID: MW-29

Time 1330 Static DTW (ft below reference point)	162.63	Casing Volume (CV) (gallons) – 3 CV (gallons) –	Weather Conditions	Initials: AMD/AMJ
Casing Total Depth (ft below reference point)	240	Purging Device – Sampling Device Sample port	Time 1330 Temp. 85	Begin Purge – End Purge –
Water Column (feet)	77.37	Pump: Depth (ft brp) – Type – Voltage – HP –	Skies clear	Gallons Purged – CVs Purged –
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) – From –	DTW (ft brp) – Time –

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1330	162.63	–	–	26.87	7.41	1.347	3.9	6.33	24.5	–	Q≈ 6 gpm

SAMPLE COLLECTION SAMPLE TIME 1330

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-29 is an active system extraction well. Well pump was on during sample collection.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/7/18 TASK: 532.30 WELL ID: MW-30A

Time 1235 Static DTW (ft below reference point)	117.73	Screen ~~Casing~~ Volume (CV) (gallons) 17.6 3 SV CV (gallons) 52.8	Weather Conditions	Initials: NEJ
Casing Total Depth (ft below reference point)	564	Purging Device ded pump Sampling Device 0-10 pine tubing	Time 1240 Temp. 70	Begin Purge 1242 End Purge 1253
Screen Water Column (feet)	44	Pump: Depth (ft brp) 520 Type grundfos Voltage 240 HP 0.5	Skies cloudy	Gallons Purged 64 CVs Purged 3.6
Casing Capacity (Diameter 3 ") (gallons per foot)	0.4	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) — From —	DTW (ft brp) 119.79 Time 1253

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1242	117.73	0	0	—	—	Begin	Purge	—	—	—	Pump on
1244	119.70	~~68.8~~	0.5	21.7	7.72	0.78	104.5	2.88	0.79	—	
1245	119.76	17.6	1	21.4	7.71	0.78	104.9	1.42	0.56	—	
1247	119.78	26.4	1.5	21.4	7.69	0.78	105.4	0.89	0.43	—	
1248	119.78	35.2	2	21.5	7.66	0.79	104.6	0.79	0.18	—	
1249	119.79	44	2.5	21.6	7.55	0.78	103.9	0.73	0.24	—	
1251	119.79	52.8	3	21.6	7.50	0.78	103.8	0.72	0.17	—	
1253	NM	~~63.9~~ ~~62.6~~	3.6	—	—	End	Purge	—	—	—	Pump off

SAMPLE COLLECTION SAMPLE TIME 1252

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/07/18 TASK: 532.30 WELL ID: MW-30B

Time 1320 Static DTW (ft below reference point)	114.41	Screen SV Casing Volume (CV) (gallons) 40 3 CV (gallons) 120	Weather Conditions Time 1315 Temp. 70	Initials: DJS/NES
Casing Total Depth (ft below reference point)	619	Purging Device ded. pump Sampling Device >100 pipe stand	Skies cloudy	Begin Purge 1323 End Purge 1349
pump to screen Water Column (feet)	99	Pump: Depth (ft brp) 520 Type grundfos Voltage 240 HP		Gallons Purged 132.3 CVs Purged 3.3
Casing Capacity (Diameter 3 ") (gallons per foot)	0.4	Monitor Well Recharge Rate: Slow Fast ✓	Wind (mph) ~ From ~	DTW (ft brp) ~~114.41~~ Time ~~1320~~

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
13.23	114.41	0	0	~	Begin purge ~					-	Q ≈ 5 GPM
13.27	134.40	20	0.5	21.3	7.40	1.45	-86.6	0.25	0.77	-	
13.31	136.86	40	1.0	21.5	7.23	1.77	-70.4	2.45	0.92	-	
13.34	138.24	60	1.5	21.6	7.29	1.57	-73.2	3.06	5.42	-	
13.38	139.24	80	2.0	21 6	7.37	2.32	-77.5	2.30	8.04	-	
13.42	137.78	100	2.5	21.7	7.38	1.37	-77.8	2.17	6.24	-	
13.46	140.28	120	3.0	21.7	7.38	1.37	-77.3	2.20	1.70	-	
13.49	NM	132.3		~	End purge ~						

SAMPLE COLLECTION SAMPLE TIME 1348

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/30/18 TASK: 532.30 WELL ID: MW-31

Time 0940 Static DTW (ft below reference point)	106.56	Casing Volume (CV) (gallons) 81 3 CV (gallons) 243	Weather Conditions: Time 0940 Temp. 75
Casing Total Depth (ft below reference point)	996	Purging Device ded pump Sampling Device 10-100 pipe stand	Skies cloudy
pump to screen Water Column (feet)	54	Pump: Depth (ft brp) 942 Type grundfos Voltage 240 HP	Wind (mph) ~ From ~
Casing Capacity (Diameter 6") (gallons per foot)	1.5	Monitor Well Recharge Rate: Slow Fast X	Initials: AMD
			Begin Purge 0949 End Purge 1013
			Gallons Purged 264 CVs Purged 3.25
			DTW (ft brp) 107.11 Time 1013

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	...FIELD PARAMETERS... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0949	106.56	0	0	—	—	PUMP	ON	—	—	—	
0953	110.75	40	0.5	20.8	7.61	1121	31.6	0.54	6.59	-	Q ≈ 11 gpm
0957	110.80	80	1.0	21.2	7.50	1874	6.3	0.76	31.8	-	
1000	110.80	120	1.5	21.2	7.41	1796	-5.0	0.84	24.4	-	
1003	110.81	160	2.0	21.2	7.41	1670	-17.6	0.85	19.3	-	
1007	110.82	200	2.5	21.3	7.42	1669	-20.3	0.85	8.27	-	
1011	110.82	243	3.0	21.3	7.43	1667	-21.9	0.86	6.63	-	
1013	107.11	264	3.25	—	—	PUMP	OFF	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 1011

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 08/21/18 TASK: 532.30 WELL ID: MW-32A

Time 0946 Static DTW (ft below reference point)	79.20	Screen SV Casing Volume (~~GW~~) (gallons) 207 SV 3 CV (gallons) 621	Weather Conditions
Casing Total Depth (ft below reference point)	905	Purging Device Ded pump Sampling Device ND peri stand	Time 0940 Temp. 78
pump to screen Water Column (feet)	345	Pump: Depth (ft brp) 540 Type Grundfos Voltage 240 HP	Skies cloudy
Casing Capacity (Diameter 4") (gallons per foot)	0.6	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) – From –

Initials: TJE/NES/AJS

Begin Purge 0950 End Purge 10:40

Gallons Purged 660 CVs Purged 3.18

DTW (ft brp) 81.02 Time 1036

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0950	79.20	0	0	—	—	Begin Purge	—	—	—	—	Q ≈ 13 gpm
0957	80.92	104	0.5 ~~104~~	20.91	7.61	967	-61.8	2.34	6.12	–	
1005	80.96	207	1 ~~208~~	21.08	7.62	975	-49.1	1.79	1.65	–	
1013	81.01	311	1.5 ~~312~~	21.13	7.64	980	-40.7	1.80	0.55	–	
1021	81.01	414	2 ~~416~~ Hit	21.13	7.64	980	-30.0	1.67	0.32	–	
1029	81.02	518	2.5 ~~520~~	21.13	7.63	980	-27.0	1.58	0.36	–	
1036	81.02	621	3 ~~624~~	21.13	7.62	979	-22.3	1.56	0.40	–	
1040		660									

SAMPLE COLLECTION SAMPLE TIME

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/7/18 TASK: 532.30 WELL ID: MW-32B

Time 0723 Static DTW (ft below reference point)	81.81	Screen Casing Volume (CV) (gallons) 264 3 CV (gallons) 791	Weather Conditions Time 0740 Temp. 70
Casing Total Depth (ft below reference point)	999	Purging Device ded pump Sampling Device >100 pipe stand	Skies clear
Water Column (feet)	436	Pump: Depth (ft brp) 560 Type grundfos Voltage 240 HP -	Wind (mph) - From -
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Initials: AMD/DJS/NES
			Begin Purge 0735 End Purge 0842
			Gallons Purged 812 CVs Purged 3.08
			DTW (ft brp) 102.84 Time 0840

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0735	~~0~~ 81.81	0	0	—		Begin	Purging	—		—	
0741	100.09	80	0.30	20.7	7.67	963	-217.8	0.52	9.06	-	Q ≈ 12 gpm
0747	100.53	160	0.60	20.9	7.68	948	-217.9	0.47	8.12	-	
0753	100.89	240	0.90	20.9	7.67	936	-213.3	0.45	5.48	-	
0800	101.11	320	1.21	21.2	7.59	1020	-182.4	0.42	2.65	-	
0808		396	1.5	—	Sample	1.5 CV	—	—	—	-	Collect Sample MW-32B-1.5CV
0815	102.12	480	1.81	21.2	7.62	1012	-177.2	0.37	2.01	-	
0820	102.38	560	2.1	21.2	7.63	1001	-186.0	0.37	~~3.71~~ 1.32	-	
0830	102.61	660	2.5	21.2	7.64	991	-191.4	0.36	1.44	-	
0840	102.84	~~794~~ 800	3.0	21.2	7.65	984	-195.6	0.36	1.60	-	Collect Sample MW-32B
0842	NM	812	3.08	—	—	End	Purge	—	—	-	

SAMPLE COLLECTION SAMPLE TIME 0840

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Collected 1.5 CV Sample @ 808

Collected 3.0 CV Sample @ 0840

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 08/21/2018 **TASK:** 532.30 **WELL ID:** MW-32C

Time 0800 Static DTW (ft below reference point)	71.90	Screen SV Casing Volume (CV) (gallons) 318 3 SV (gallons) 954	Weather Conditions
Casing Total Depth (ft below reference point)	1090	Purging Device Ded pump Sampling Device ND pipe tbd	Time 0800 Temp. 78
pump to screen Water Column (feet)	535	Pump: Depth (ft brp) 540 Type Grundfos Voltage 240 HP	Skies Cloudy
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast ok	Wind (mph) 2 From

Initials: TJE/NES/DJS
Begin Purge 0810 End Purge 0945
Gallons Purged 963 CVs Purged
DTW (ft brp) Time

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0810	71.90	0	0	—	—	Begin Purge		—	—	—	Q= 12 gpm
0823	>141.00	147	0.46	20.91	8.23	532	-132.4	0.42	0.19	—	
0836	>141.00	283	0.89	21.13	8.36	532	-123.5	0.60	0.38	—	
0849	NM	416	1.30	21.45	8.38	532	-101.3	0.58	0.64	—	
0902	NM	547	1.72	21.51	8.37	532	-96.2	0.34	1.19	—	
0915	NM	676	2.13	21.53	8.36	532	-98.7	0.19	1.19	—	
0928	NM	805	2.53	21.55	8.37	532	-106.9	0.28	0.58	—	
0941	NM	933	2.93	21.57	8.45	532	-115.2	—	0.76	—	
0945	NM	963	3.02	—	—	Pump off		—	—	—	

SAMPLE COLLECTION SAMPLE TIME

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/7/18 TASK: 532.30 WELL ID: MW-33

Time 1514 Static DTW (ft below reference point)	75.60	Casing Volume (SV / 3 SV) (gallons) 291 / 873	Weather Conditions: Time 1530 Temp. 70; Skies cloudy; Wind (mph) — From —
Casing Total Depth (ft below reference point)	1020	Purging Device ded. pump Sampling Device 0-10 ded. pipe/tubing	Initials: NES/AMD/DJS
pump to screen Water Column (feet)	485	Pump: Depth (ft brp) 535 Type grundfos Voltage 240 HP	Begin Purge 1531 End Purge 1620
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Gallons Purged 900 CVs Purged 3.1; DTW (ft brp) 76.01 Time 1618

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1531	75.60	0	0	~ Begin purge ~							Q ≈ 18 GPM pump on
1539	75.80	146	0.5	20.6	7.63	0.70	-48.5	0.46	0.98	-	
1547	75.83	291	1.0	20.9	7.71	0.70	-63.7	0.49	0.76	-	
1555	75.98	437	1.5	20.9	7.65	0.70	-22.0	0.64	0.42	-	
1603	75.98	582	2.0	20.9	7.68	0.70	-46.2	0.79	0.56	-	
1610	76.00	728	2.5	20.9	7.69	0.70	-44.1	0.78	0.32	-	
1618	76.01	873	3.0	20.9	7.69	0.70	-44.7	0.77	0.21	-	
1620	NM	900	3.1	~ End purge ~							

SAMPLE COLLECTION SAMPLE TIME 1618

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-33-1.5SV @ 1555

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/23/18 TASK: 532.30 WELL ID: MW-34A

Time 835 Static DTW (ft below reference point)	147.98	Screen SY Casing Volume (CV) (gallons) 53 3 CV (gallons) 159	Weather Conditions Time 836 Temp. 80
Casing Total Depth (ft below reference point)	280	Purging Device ded pump Sampling Device NO pipestand	Skies clear
pump to screen Water Column (feet)	80	Pump: Depth (ft brp) 200 Type grundfos Voltage 240 HP -	Wind (mph) — From —
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Initials: AMP/AMJ
			Begin Purge 847 End Purge 904
			Gallons Purged 170 CVs Purged 3.2
			DTW (ft brp) 149.42 Time 902

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
8:47	147.98	0	0	PUMP ON							
8:49	149.42	25	0.5	21.75	7.39	1.125	-113.9	2.18	126	—	
8:51	149.42	53	1.0	21.71	7.32	1.212	-69.8	3.69	14.1	—	
8:53	149.42	79	1.5	21.74	7.31	1.213	-50.7	3.74	7.14	—	
8:57	149.42	106	2.0	21.74	7.29	1.211	-39.3	3.70	8.85	—	
8:59	149.42	132	2.5	21.74	7.27	1.213	-34.3	3.68	5.71	—	
9:02	149.42	159	3.0	21.74	7.27	1.214	-29.9	3.68	5.98	—	
9:03	NM	165	3.1	COLLECT SAMPLE							
9:04	NM	170	3.2	PUMP OFF							

SAMPLE COLLECTION SAMPLE TIME 903

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11-07-18 **TASK:** 532.30 **WELL ID:** MW-34B

Time 1450 Static DTW (ft below reference point)	141.61	Casing Volume (3V) (gallons) 50	5V 3 CV (gallons) 150	Weather Conditions	Initials: DJ, AM
Casing Total Depth (ft below reference point)	536	Purging Device dsu pump	Sampling Device Lo-flow Pump	Time 1455 Temp. 70°F	Begin Purge 1458 End Purge 1508
Screen Water Column (feet)	76	Pump: Depth (ft brp) 460 Type grundfos	Voltage 240 HP	Skies clear	Gallons Purged 180 CVs Purged 3.6
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast N	Wind (mph) — From —	DTW (ft brp) 144.24 Time 1507

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1458	141.61	0	0								Q ≈ 18 GPM
1500	144.00	36	0.72	21.7	7.48	925	-49.3	3.23	41.1	—	
1503	144.05	90	1.80	21.7	7.48	925	-33.5	3.25	24.1	—	
1504	144.09	108	2.16	21.7	7.48	926	-34.4	3.24	88.1	—	
1505	144.21	126	2.52	21.7	7.47	928	-28.0	3.26	4.99	—	
1506	144.24	144	2.88	21.7	7.47	927	-36.1	3.24	9.01	—	
1507	144.24	162	3.24	21.7	7.47	927	-32.1	3.23	14.01	—	Sample collected MW-34B
1508	NM	180	3.60	~	~	End	purge	~	~	—	

SAMPLE COLLECTION SAMPLE TIME 1507

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Sample collected @ 1507 MW-34B (avg)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/23/18 TASK: 532.30 WELL ID: MW-34C

Time 0759 Static DTW (ft below reference point)	137.92	Screen ~~Casing~~ Volume (CV) (gallons) 64 5V 3 CV (gallons) 192	Weather Conditions: Time 0800 Temp. 70
Casing Total Depth (ft below reference point)	576	Purging Device ded. pump Sampling Device ND pipestand	Skies clear
pump to screen Water Column (feet)	96	Pump: Depth (ft brp) 470 Type grundfos Voltage 240 HP —	Wind (mph) — From —
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Initials: AMD/AMJ; Begin Purge 0805 End Purge 0820; Gallons Purged 215 CVs Purged ____; DTW (ft brp) 160.12 Time 0818

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0805	137.92	0	0	—	—	PUMP	ON	—	—	—	
0807	156.66	40	0.6	22.90	7.95	1.536	50.8	6.66	3.91	—	Q ≈ 15 gpm
0810	159.38	64	1.0	21.88	8.02	0.616	-164.3	1.35	2.71	—	
0812	160.04	96	1.5	21.90	7.80	0.717	-137.7	0.99	1.39	—	
0815	160.98	128	2.0	21.91	7.66	0.733	-115.7	0.89	4.58	—	
0816	160.82	160	2.5	21.92	7.60	0.745	-109.0	0.80	8.19	—	
0818	160.12	192	3.0	21.92	7.57	0.749	-104.4	0.74	0.88	—	
0819	NM	200	3.12	COLLECT		SAMPLE					
0820	NM	215	3.35	PUMP	OFF						

SAMPLE COLLECTION SAMPLE TIME 0819

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N) If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/8/18 TASK: 632.30 WELL ID: MW-35c

Time 1330 Static DTW (ft below reference point)	84.30	Casing Volume (SV) (gallons) 378 3 CV (gallons) 1134	Weather Conditions
Casing Total Depth (ft below reference point)	1040	Purging Device Grd Pump Sampling Device ND Pipestone	Time 1315 Temp. 70
Pump to screen Water Column (feet)	630	Pump: Depth (ft brp) ___ Type grundfos Voltage 240 HP	Skies Clear
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ___ Fast ✓	Wind (mph) — From —

Initials: DJS
Begin Purge 1331 End Purge 1429
Gallons Purged 1156 CVs Purged 3.05
DTW (ft brp) 87.72 Time 1428

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1331	84.30	0	0	—	Begin Purge				—		Q ≈ 22 GPM
1340	87.39	189	0.5	20.4	7.46	793	-116.9	3.40	0.32	—	
1349	87.45	378	1.0	20.5	7.48	777	-117.9	3.93	3.31	—	
1402	87.68	567	1.5	20.5	7.53	788	-94.0	4.20	3.99	—	
1412	87.71	756	2.0	20.5	7.49	789	-86	4.15	2.52	✓	
1427	87.71	945	2.5	20.5	7.49	788	-95.9	4.12	4.11	—	
1428	87.72	1134	3.0	20.6	7.50	786	-75.1	4.10	2.42	—	Sample collected
1429	NM	1156	3.05	—	End	Purge			—	—	

SAMPLE COLLECTION SAMPLE TIME 1428

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Sample collected @ 1428 MW-35c

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/8/18 TASK: 5320 WELL ID: MW-36

Time 0960 Static DTW (ft below reference point)	77.59	Screen ~~Casing~~ Volume (~~GV~~) (gallons) 320 5V 3~~GV~~ (gallons) 960	Weather Conditions Initials: DTS, AMD
Casing Total Depth (ft below reference point)	994	Purging Device ded. Pump Sampling Device 10-100 Pipestone	Time 0950 Temp. 72°F Begin Purge 1015 End Purge 1130
Water Column (feet)	534	Pump: Depth (ft brp) 460 Type grundfos Voltage 240 HP —	Skies clear Gallons Purged 974 CVs Purged 3.04
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast ✓	Wind (mph) — From — DTW (ft brp) 81.20 Time 1129

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (uS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1015	77.59	0	0	~		Begin Purge			~	—	
1020	80.83	65	0.20	20.7	7.54	1212	-128.3	0.53	1.76	—	Q ≈ 13 GPM
1025	80.90	130	0.41	20.8	7.45	1186	-125.6	0.49	2.08	—	
1037	81.02	286	0.89	21.5	7.66	740	-163.5	0.44	2.10	—	
1049	81.11	442	1.38	21.6	7.51	1046	-148.9	0.44	1.13	—	
1052	81.12	480	1.50	21.6	7.50	1071	-150.4	0.46	1.16	—	Sample collected MS SV
1101	81.18	597	1.86	21.7	7.48	1136	-95.5	0.42	1.25	—	
1110	81.18	714	2.23	21.7	7.46	1163	-114.2	0.40	1.85	—	
1119	81.18	831	2.59	21.7	7.46	1181	-110.4	0.39	2.14	—	
1129	81.20	961	3.00	21.7	7.46	1190	-110.7	0.39	2.48	—	
1130	NM	974	3.04	~	End Purge			~	~	—	

SAMPLE COLLECTION SAMPLE TIME 1129

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

1.5 SV sample collected @ 1052 MW-36 1.5-SV

3.0 sample collected @ 1129 (org) MW-36

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 3/5/18 TASK: 532.30 WELL ID: MW-37

Time 11:36 Static DTW (ft below reference point) 125.20
Casing Total Depth (ft below reference point) 920
screen Water Column (feet) 300
Casing Capacity (Diameter 4") (gallons per foot) 0.66

Screen ~~Casing~~ Volume (CV) (gallons) 1 CV 180 3 CV (gallons) 540
Purging Device ded pump Sampling Device NP pipestand
Pump: Depth (ft brp) 520 Type grundfos Voltage HP
Monitor Well Recharge Rate: Slow Fast X

Weather Conditions
Time 11:40 Temp. 70
Skies clear
Wind (mph) 5 From S

Initials: AMD / NES
Begin Purge 11:38 End Purge 12:07
Gallons Purged 5.43 CVs Purged 3.
DTW (ft brp) 130.76 Time 12:05

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
11:38	125.20	Ø	Ø	—	—	BEGIN PURGE	—	—	—	—	
11:42	130.61	90	0.5	22.3	7.49	0.712	-105.0	0.31	1.68	-	Q≈ 21 gpm
11:47	130.63	185	1.02	22.6	7.55	0.828	-92.2	0.21	108.2	-	
11:51	130.69	270	1.51	22.7	7.60	0.761	-92.2	0.19	56.2	-	
11:58	130.74	400	2.22	22.7	7.60	0.784	-82.8	0.13	18.9	-	
12:03	130.75	510	2.83	22.7	7.59	0.792	-77.9	0.20	5.68	-	
12:05	130.76	543	3.0	22.7	7.59	0.793	-75.8	0.22	6.19	-	
12:07	NM	580	3.2	—	—	END	PURGE	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 12:05

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 3/5/18 TASK: 532.30 WELL ID: MW-38

Time 10:50 Static DTW (ft below reference point)	136.15	Casing Volume (CV) (gallons) 42.1	3 CV (gallons) 126.4	Weather Conditions	Initials: AMD/NES
Casing Total Depth (ft below reference point)	200	Purging Device ded. pump	Sampling Device No pipestand	Time 10:50 Temp. 75	Begin Purge 10:56 End Purge 11:26
Water Column (feet)	63.85	Pump: Depth (ft brp) 190 Type grundfos Voltage 280 HP		Skies clear	Gallons Purged 141 CVs Purged 3.35
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 0 From -	DTW (ft brp) 136.68 Time 11:29

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
10:56	136.15	ø	ø			PUMP	ON				Q ≈ 4 gpm
10:58	136.49	12.3	0.29	21.8	7.33	1.449	-93.2	0.68	7.19	-	
11:06	136.57	49.8	1.18	21.7	7.18	1,413	-14.2	0.62	4.57	-	
11:09	136.59	58.8	1.39	21.7	7.16	1.408	-4.5	0.59	1.06	-	
11:12	136.61	78	1.85	21.7	7.15	1.403	-0.3	0.58	0.4	-	
11:17	136.68	100	2.37	21.7	7.13	1.408	7.4	0.56	0.29	-	
11:22	136.67	122	2.89	21.7	7.13	1.406	11.6	0.56	1.2	-	
11:24	136.68	127	3.02	21.7	7.13	1.407	12.3	0.56	0.80	-	
11:26	NM	141	3.35			PUMP OFF					

SAMPLE COLLECTION SAMPLE TIME 11:24

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/8/18 TASK: 532.30 WELL ID: MW-39

Time 1520 Static DTW (ft below reference point)	75.40	Casing Volume (CV) (gallons) 271 3 CV (gallons) 813	Weather Conditions	Initials: DJS
Casing Total Depth (ft below reference point)	1012	Purging Device dw pump Sampling Device ND Pipestone	Time 1515 Temp. 72	Begin Purge 1524 End Purge 1602
Pump to Water Column (feet) Screen	452	Pump: Depth (ft brp) 560 Type grundfos Voltage 240 HP —	Skies clear	Gallons Purged 857 CVs Purged 3.16
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast ✓	Wind (mph) — From —	DTW (ft brp) 91.21 Time 1602

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1524	75.40	0	0	~	Begin Purge			~			Q ≈ 22 gpm
1530	90.76	136	0.5	21.7	8.41	410.9	-212.4	1.05	1.43	—	
1536	90.78	271	1.0	22.2	8.59	401.2	-230.3	0.88	1.56	—	
1542	90.91	407	1.5	22.1	8.44	415.6	-208	2.16	1.41	—	
1550	90.96	542	2.0	22.4	8.31	418.6	-216.7	0.39	1.24	—	
1556	91.17	678	2.5	22.4	8.32	418.3	-220.9	0.39	1.34	—	
1602	91.21	813	3.0	22.4	8.29	420.1	-225.4	0.37	1.43	—	Collected Sample MW-39
1604	NM	857	3.16	~	End Purge			~		—	

SAMPLE COLLECTION SAMPLE TIME 1602

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

collected Sample MW-39 @ 1602

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/8/18 TASK: 532.30 WELL ID: MW-40

Time 0745 Static DTW (ft below reference point)	110.01	screen SV Casing Volume (~~GV~~) (gallons) 75 3 SV ~~GV~~ (gallons) 225	Weather Conditions	Initials: AMD, DTS
Casing Total Depth (ft below reference point)	970	Purging Device ded pump Sampling Device NO pipestand	Time 0750 Temp. 69°F	Begin Purge 0755 End Purge 0816
pump to screen Water Column (feet)	50	Pump: Depth (ft brp) ___ Type grundfos Voltage 240 HP	Skies cloudy	Gallons Purged 252 CVs Purged 3.36
Casing Capacity (Diameter 6") (gallons per foot)	1.5	Monitor Well Recharge Rate: Slow ___ Fast X	Wind (mph) — From —	DTW (ft brp) 110.98 Time 0814

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0755	110.01	0	0	—	Begin	Purge			—		Q ≈ 12 gpm
0758	110.80	36	0.48	20.5	7.59	732	-148.6	2.45	3.05		
0801	110.88	72	0.96	20.9	7.62	762	-112.1	1.91	2.59		
0804	110.92	108	1.44	21.0	7.64	761	-67.0	1.86	1.90		
0807	110.94 ~~110.97~~	144	1.92	21.1	7.72	759	-45.3	3.19	2.10		
0810	110.98	180	2.4	21.0	7.64	760	-23.8	2.34	1.83		
0814	110.98	228	3.04	21.2	7.62	762	-20.7	2.46	2.08		Collected Sample
0816	NM	252	3.36	—	End	Purge			—		

SAMPLE COLLECTION SAMPLE TIME 0814

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	〃	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Sample collected @ 0814 MW-40 (org)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/8/18 TASK: B32.30 WELL ID: MW-41

Time 0918 Static DTW (ft below reference point)	144.44	Screen ~~Casing~~ Volume ~~(CV)~~ (gallons) 39 3 ~~CV~~ SV (gallons) 118	Weather Conditions	Initials: AMJ/NES
Casing Total Depth (ft below reference point)	425	Purging Device del. pump Sampling Device 10-100 pipestand	Time 0920 Temp. 70	Begin Purge 0931 End Purge 1000
pump to screen Water Column (feet)	65	Pump: Depth (ft brp) 360 Type grundfos Voltage 240 HP –	Skies partially cloudy	Gallons Purged 159 ~~CVs~~ SVs Purged
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) – From –	DTW (ft brp) 149.42 Time 0952

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	...FIELD PARAMETERS... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0931	144.44	0	0	—	—	pump	on	—	—	–	Q≈ 6
0934	149.40	~~0.5~~	0.5	22.0	7.05	2.06	-19.5	2.11	38.9	–	
0938	149.30	39	1	22.3	7.03	2.08	-7.4	2.72	50.9	–	
0941	149.35	58	1.5	22.4	7.03	2.08	13.9	3.01	55.8	–	
0945	149.37	78	2	22.4	7.02	2.08	24.6	3.10	24.0	–	
0948	149.38	97	2.5	22.4	7.02	2.08	30.8	3.19	10.26	–	
0952	149.42	118	3	22.4	7.02	2.08	35.1	3.26	9.00	–	
0955	NM	–	collect sample -								
1000	NM	159	~~4~~ pump OFF -								

SAMPLE COLLECTION SAMPLE TIME 0955

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	3	1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MS/MSD collected

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/27/18 TASK: 532.30 WELL ID: P-07

Time 12:08 Static DTW (ft below reference point)	110.86	Casing Volume (CV) (gallons) 0.90 3 CV (gallons) 2.69	Weather Conditions	Initials: AMD/CVO
Casing Total Depth (ft below reference point)	116.38	Purging Device Quike bailer Sampling Device bailer	Time 12:04 Temp. 70	Begin Purge 12:24 End Purge 12:45
Water Column (feet)	5.52	Pump: Depth (ft brp) ~ Type ~ Voltage ~ HP ~	Skies cloudy	Gallons Purged 1.1 CVs Purged 1.22
Casing Capacity (Diameter 2") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow X Fast	Wind (mph) 0-5 From W	DTW (ft brp) 111.14 Time 8:40

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
12:24	110.86	Ø	Ø	—	—	Begin	Bailing	—	—	—	
12:30	NM	0.3	0.33	26.5	7.68	2250	42.7	5.09	532	—	
12:41	NM	0.6	0.67	20.5	7.48	2208	40.3	6.23	750	—	
12:45	114.66	1.0	1.11	20.6	7.43	2193	39.8	5.83	890	—	
12:50	115.81	1.1	1.22	WELL	DRY	—	—	—	—	—	
8:40	111.14	1.1	1.22	20.5	~~6.88~~ 7.94 AMD 2/28/18	2637	64.3	5.13	110	—	SAMPLE ON 2/28/18

SAMPLE COLLECTION SAMPLE TIME 8:40

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/28/18 TASK: 532.36 WELL ID: P-09

Time 9:53 Static DTW (ft below reference point)	120.86	Casing Volume (CV) (gallons) 6.03 3 CV (gallons) 18.09	Weather Conditions	Initials: AMD / CVD
Casing Total Depth (ft below reference point)	130	Purging Device Grundfos Sampling Device ded. tubing	Time 9:53 Temp. 70	Begin Purge 10:08 End Purge 10:37
Water Column (feet)	9.14	Pump: Depth (ft brp) 128' Type MPI Voltage 115 HP 0.5	Skies clear	Gallons Purged 20 CVs Purged 3.31
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) — From —	DTW (ft brp) 124.77 Time 10:27

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
10:08	120.86	0	0	~~21.9~~	—	PUMP ON	—	—	—	—	
10:11	122.70	2.25	0.37	21.9	7.59	2536	54.2	4.17	3.57	287	Q = 0.75 gpm
10:14	122.73	4.50	0.75	23.1	7.51	3321	55.1	3.79	2.86	287	
10:15	122.76	5.25	0.87	24.0	7.48	3541	52.6	4.18	3.11	287	PUMP SHUT OFF
10:19	NM	—	0.87	←	—	PUMP TURNED ~~OFF~~ ON	—	—	—	→	
10:20	122.81	7	1.16	24.1	7.47	3551	52.7	4.18	2.32	287	Q ≈ 0.75 gpm
10:23	124.35	10	1.65	23.7	7.55	3641	48.5	4.24	2.67	287	
10:27	124.77	13	2.15	23.1	7.55	3602	48.5	3.85	0.38	287	
10:35	NM	19	3.15	23.2	7.54	3611	46.3	4.01	0.91	287	SAMPLE
10:37	NM	20	3.31	←	—	PUMP OFF	—	—	—	→	

SAMPLE COLLECTION SAMPLE TIME 10:35

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / ~~BLANKS~~? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

RB-022818 @ 10:55 → 3 VOAs 8260B
1 1L amber 8270 SIM

HARGIS + ASSOCIATES, INC.

TABLE 2

WELL CONSTRUCTION SUMMARY

Well Identifier	Date Installed	Current Land Surface Elevation (feet msl)	Current Reference Point Elevation (feet msl)	Total Depth of Borehole (feet bls)	Perforated Interval (feet bls)	Screen Slot Size (inches)	Borehole Diameter (inches)	Casing Diameter (inches) (a)	Filter Pack Interval (feet bls)	Filter Pack Sand Size	Grout Filter/ Intermediate Seal Interval (feet bls) (b)	Annular Seal Interval (feet bls) (c)
Regional Groundwater System Monitor Wells, Extraction Wells and Piezometers												
MW-06	1/16/1997	185.0	184.70	190.9	149.6 - 189.6	0.010	8.5	2	145.4 - 190.9	#2/16	139.4 - 145.4 (d)	0 - 139.4
MW-08	1/22/1997	156.6	155.91	167.2	126.1 - 166.1	0.010	8.5	2	120.7 - 167.2	#2/16	115.7 - 120.7	0 - 115.7
MW-09	3/21/1997	180.5	180.10	194.2	152.2 - 192.2	0.010	8.5	2	146.2 - 194.2	#2/16	141.2 - 148.2	0 - 141.2
MW-13	4/16/1997	142.5	141.84	159.6	120.6 - 159.6	0.010	8.5	2	114.6 - 159.6	#2/16	109.6 - 114.6	0 - 109.6
MW-15	5/18/1998	145.6	144.95	174.8	120.8 - 170.8	0.010	8.5	2	115.8 - 174.8	#2/16	112.8 - 115.8	0 - 112.8
MW-16	11/20/1999	143.0	142.40	179.5	148.5 - 178.5	0.010	11.0	4	144.5 - 179.5	#2/16	134.5 - 144.5 (e)	0 - 134.5
MW-17	5/31/2000	142.8	142.70	203.7	173.1 - 193.1 (i)	0.020	10.0	4	159.7 - 193.1	#2/16	156.2 - 159.7 193.1 - 203.7 (j)	0 - 156.2
MW-18	5/24/2000	142.4	142.32	195.6	164.1 - 194.1	0.020	10.0	4	156.9 - 194.5	#2/16	154.2 - 158.9	0 - 154.2
MW-19	5/26/2000	142.7	142.06	205.5	184.9 - 204.9	0.020	10.0	4	177.0 - 205.3	#2/16	171.5 - 177.0	0 - 171.5
MW-20	6/26/2003	184.4	184.19	200.0	158.6 - 198.2	0.020	11.0	4 (f)	158.0 - 200.0	#2/12	151.0 - 158.0 (g)	0 - 151.1 (h)
MW-21	7/17/2003	143.3	141.18	238.3	212.1 - 232.1	0.010	8.0	4 (k)	205.0 - 234.5	#2/16	202.0 - 205.0 234.5 - 238 (j)	0 - 202.0 (h)
MW-22	8/13/2003	139.4	138.65	245.0	217.4 - 237.4	0.020	8.0	4 (l)	215.0 - 238.0	#2/12	208.0 - 215.0 (m)	0 - 208.0 (h)
MW-23	8/18/2003	137.8	137.33	235.6	215.2 - 235.2	0.020	8.0	4 (n)	209.4 - 235.6	#2/12	203.5 - 209.4 (m)	0 - 203.5 (h)
MW-24	9/15/2004	143.1	142.83	338.0	310.3 - 330.3	0.030	10.6	4 (o)	306 - 330	#3	301 - 306 (p)	0 - 301 (h)
MW-25	9/10/2004	143.0	142.64	805	449.4 - 479.8	0.010	8.5 (q)	2 (r)	429 - 485	#2/16	418 - 429	0 - 418 (h)
MW-26A (s)	10/1/2004	137.6	137.04	805	279 - 309	0.020	12.25 (q)	2 (t)	274 - 315	#2/12	266 - 274	0 - 266 (h)
MW-26B (s)	10/1/2004	137.6	137.05	805	339 - 379	0.020	12.25 (q)	2 (u)	334 - 387	#2/12	266 - 274	0 - 266 (h)
MW-26C (s)	10/1/2004	137.6	137.22	805	459 - 499	0.020	12.25 (q)	2 (v)	435 - 499	#2/12	387 - 435 (w)	0 - 266 (h)
MW-27	4/22/2008	137.6	137.16	550	475 - 505.2 (cc)	0.030	11.25 (q)	4 (z)	466 - 520	#3	457.5 - 468	0 - 457.5 (h)
MW-28	5/5/2008	141.4	140.77	425	335 - 375	0.040	12.25 (q)	4 (z)	325.4- 377	#8	318 - 325.4	0 - 318 (h)
MW-29	8/15/2008	142.7	142.34	265.7	200 - 240	0.020	10.0 (aa)	4 (z)	185 - 246	#2/12	176 - 185	0 - 176 (h)
MW-30A(s)	11/26/2008	130.2	129.44	635 (j)	524-584	0.020	14.25	3 (y)	515.9-570.5	#2/12	495.5-515.9	0-495.5 (bb)
MW-30B(s)	11/26/2008	130.2	129.39	635 (j)	596-616	0.020	14.25	3 (y)	586.6-625	#2/12	586.8-570.5	0-495.5 (bb)
MW-31	10/2/2009	120.3	119.80	1,100 (jj)	946-996	0.020	13	6(kk)	922-1,006	#2/12	904-922	0-904
MW-32A(s)	12/10/2009	93.4	92.88	1,153 (gg)	890-905	0.020	18.5	4(dd)	880-910	#2/12	832-880	0-832
MW-32B(s)	12/10/2009	93.4	92.89	1,153 (gg)	969-999	0.020	18.5	4(dd)	960-1,004.5	#2/12	910-960	0-832
MW-32C(s)	12/10/2009	93.4	92.88	1,153 (gg)	1,070-1,090	0.020	18.5	4(dd)	1,054-1,100	#2/12	1,004.5-1,054	0-832
MW-33	7/2/2010	83.8	83.19	1,060 (hh)	980-1,020	0.020	11	4(dd)	970-1,025	#2/12	924-970	0-924 (ii)
MW-34A	2/3/2011	154.0	153.25	290	220 - 280	0.020	12.25	4(dd)	211 - 290	#2/12	175 - 211	0 - 175
MW-34B	2/1/2011	153.9	153.11	540	486 - 536	0.020	12.25	4(dd)	475 - 540	#2/12	449 - 475	0 - 449
MW-34C	1/19/2011	154.1	153.29	709 (ll)	556 - 576	0.020	12.25	4(dd)	551 - 582	#2/12	530 - 551	0 - 530
MW-35A	12/20/2010	94.3	93.57	1,101	420 - 470	0.020	18	4(dd)	401 - 482	#2/12	376 - 401	0 - 376
MW-35B	12/20/2010	94.3	93.56	1,101	745 - 805	0.020	18	4(dd)	725 - 816	#2/12	482 - 725	0 - 376
MW-35C	12/20/2010	94.3	93.55	1101 (ll)	990 - 1,040	0.020	12.25	4(dd)	980 - 1,048	#2/12	816 - 980	0 - 376
MW-36	1/3/2012	87.19	86.65	1030 (mm)	934 - 954 974 - 994	0.020	12.25	4(dd)	914 - 1,003	#2/12	95 -853 (oo), 853 - 914 (pp)	0 - 95 (qq)
MW-37	10/17/2012	156.02	155.60	916	770-820	0.020	12.25	4(dd)	755-834	#2/12	229-724 (rr) 724-755 (pp)	0-229 (ss)
MW-38	7/29/2013	155.7	154.90	203	150-200	0.020	10	4(z)	140-203	#2/12	120-140 (pp)	0-120 (qq)
MW-39	7/25/2013	84.71	84.25	1,080 (ll)	982-1,012	0.020	12.25	4(dd)	974-1,017	#2/12	156 -917 (rr) 917-974 (pp)	0-156 (qq)
MW-40	7/2/2013	124.09	123.40	1040 (ll)	930-970	0.030	12.25	6(dd)	916-975	#3	175 -880 (rr) 880-916 (pp)	0-175 (qq)
EW-01	5/16/2005	143.3	141.07	195	138.1-188.1	0.020	7.6	4 (x)	134.1-195	#2/12	129-134.1 (m)	0-129 (h)
EW-02	10/20/2009	136.0	132.97	473 (ee)	410-460	0.030	17.0	8 (ff)	400-465	#3	384-400	0-384
Perched Zone Piezometers												
P-07	6/6/1997	142.7	142.31	116.8	107.7 - 117.7	0.010	8.5	2	104.7 - 117.7	#2/16	101.7 - 104.7	0 - 101.7
P-09	6/30/2003	184.3	183.86	130.0	109.6 - 129.6	0.010	11.0	4	114.0 - 130.0	#2/16	101.0 - 108.0 (g)	0 - 101.0 (h)

TABLE 2

WELL CONSTRUCTION SUMMARY

NOTE: Refer to page 2 of this table for footnotes.

FOOTNOTES

msl = Mean sea level, City of Fullerton datum
bls = Below current land surface (October 2004)
(a) = Schedule 40 polyvinyl chloride (PVC) screen and casing, unless otherwise indicated
(b) = Medium bentonite chip seal, unless otherwise indicated
(c) = Bentonite grout annuler seal unless otherwise indicated, completed at surface with vault set in concrete
(d) = No. 60 silica sand
(e) = Includes 2.0 feet of No. 60 silica sand placed above filter pack
(f) = Schedule 80 polyvinyl chloride screen and casing
(g) = Includes 2.5 to 3.0 feet of No. 60 silica sand placed above bentonite chip seal
(h) = Cement/bentonite grout, Type I/II Portland, less than 5% bentonite
(i) = Well plug, approximately 0.5-foot length, set at bottom of perforated interval
(j) = Bottom of borehole backfilled with bentonite chips
(k) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 122.0 - 212.1 feet bls; Schedule 40 mild steel casing 0 - 122.0 feet bls
(l) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 112.4 - 217.4 feet bls; Schedule 40 mild steel casing 0 - 112.4 feet bls
(m) = 1/4-inch coated bentonite pellets
(n) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 110.1 - 215.2 feet bls; Schedule 40 mild steel casing 0 - 110.1 feet bls
(o) = Mild steel wire wrap screen and Schedule 40 mild steel well casing
(p) = Includes 1 to 2 feet of #2/16 sand placed above bentonite chip seal
(q) = Below filter pack, diameter of the original pilot borehole is 5 to 6.25 inches to total depth of boring. Lower borehole backfilled with cement/bentonite grout, Type I/II Portland, less than 5% bentonite
(r) = Stainless steel wire wrap screen, Schedule 10 stainless steel casing 429.4 - 449.4 feet bls, Schedule 80 polyvinylchloride casing 429.0 - 429.4 feet bls, Schedule 40 mild steel casing 0 - 429.0 feet bls
(s) = Nested wells MW-26A, MW-26B, MW-26C, and MW-32A, MW-32B, MW-32C are constructed with three separate well casings in a single borehole; nested well MW-30A and MW-30B is constructed with two separate casings in a single borehole.
(t) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 259 - 279 feet bls and 0 - 19 feet bls; Schedule 40 mild steel casing 19 - 259 feet bls
(u) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 319 - 339 feet bls; Schedule 40 mild steel casing 0 - 319 feet bls
(v) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 439 - 459 feet bls; Schedule 40 mild steel casing 0 - 439 feet bls
(w) = #8 granular bentonite with exception of heavy mud/formational caving filling annular interval from 417 to 428 feet bls
(x) = Stainless steel wire wrap screen; Schedule 10 steinless steel casing 118.1-138.1 feet bls; Schedule 40 mild steel casing 0-118.1 feet bls
(y) = Schedule 40 Stainless steel endcaps; Schedule 10 stainless steel cesing; Stainless steel wire wrap screen
(z) = Schedule 80 PVC blank and screen casing
(aa) = Below filter pack, diameter of the original pilot borehole is 8 inches to total depth of boring. Lower borehole backfilled with cement/bentonite grout, Type I/II Portland, less than 5% bentonite
(bb) = Neat cement
(cc) = Depth of screen interval adjusted to account for loss at bottom of casing due to breakage in casing wall. Original cesing (515 ft bls) was sealed at 505.2 ft bls
(dd) = Schedule 40 Stainless steel endcaps; Schedule 80 polyvinyl chloride casing; Stainless steel wire wrap screen
(ee) = Pilot borehole drilled to a total depth of 493 feet bls and backfilled with 5% bentonite-cement grout seal to 465 feet bls
(ff) = Schedule 40 Stainless steel endcaps; Schedule 40 stainless steel casing; Stainless steel wire wrap screen; 2.5-foot stainless steel sump
(gg) = Pilot borehole drilled to a total depth of 1,153 feet bls and backfilled with 5% bentonite-cement grout seal to 1,100 feet bls
(hh) = Pilot borehole drilled to a total depth of 1,080 feet bls and backfilled with 5% bentonite-cement grout seal to 1,025 feet bls
(ii) = Annular seal interval is composed of cement grout with approximately 5% bentonite from 720 to 924 feet bls and bentonite grout from near land surface to 720 feet bls
(jj) = Pilot borehole drilled to a total depth of 1,100 feet bls and backfilled with 5% bentonite-cement grout seal to 1,006 feet bls
(kk) = Schedule 40 Stainless steel endcaps; Schedule 40 stainless steel casing; Stainless steel wire wrap screen; 5-foot stainless steel sump
(ll) = Bottom of borehole backfilled with approximately 5% bentonite-cement grout
(mm) = Bottom of borehole backfilled with bentonite pellets
(oo) = High solids bentonite grout
(pp) = Bentonite chips
(qq) = Portland cement with approximately 5% bentonite
(rr) = Medium bentonite chips and #2/12 Sand; 1:1 dry volume mix
(ss) = Portland cement with approximately 2.5% bentonite

EXPLANATION

- MW-09 — GROUNDWATER MONITOR WELL
- MW-25 — GROUNDWATER PIEZOMETER
- P-09 — PERCHED ZONE PIEZOMETER
- EW-01 — GROUNDWATER EXTRACTION WELL
- MW-10 — FORMER GROUNDWATER MONITOR WELL (ABANDONED)
- P-04 — FORMER PERCHED ZONE PIEZOMETER (ABANDONED)
- DPE-05 — FORMER PERCHED ZONE DUAL-PHASE EXTRACTION WELL (ABANDONED)
- EB-01 — FORMER GROUNDWATER ASSESSMENT SOIL BORING (ABANDONED)
- PGETS — PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM FACILITY COMPOUND
- 609 — FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000
- CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
- DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT
- SITE BOUNDARY

SEE DETAIL BELOW

CITY OF FULLERTON WELL NO. 9

OCWD AIRPORT TEST WELL 3S/11W-36A6

0 250 500 FEET

DETAIL AREA

0 50 100 FEET

Oct 08, 2014 - 3:14pm ESS - T:\2014\500-599\532 Raytheon\Hydrogeology\H+A BaseMaps\410-9312.dwg

HARGIS+ASSOCIATES, INC.
Hydrogeology/Engineering

10/14 | RPT NO. 532.31 | 410-9312 | A

FIGURE 2.
WELL AND PIEZOMETER LOCATIONS

CITY OF BUENA PARK
PERMIT TO EXCAVATE, FILL, OBSTRUCT OR CONSTRUCT PUBLIC HIGHWAY

Subject to the provisions of the Buena Park Municipal Code and all the applicable laws, rules, and regulations of the City of Buena Park or any other public agency, a Permit is hereby granted to:

PERMIT # G18-005
DATE: 02/27/18
GP# N/A
REF# Geological M10

Job Location: MEADOWBROOK WAY (N/O MALVERN E/O DALE)

Property Owner:	CITY OF BUENA PARK	6650 BEACH BLVD.	714-562-3670
		BUENA PARK, CA 90621	
Applicant:	HARGIS & ASSOCIATES, INC.	TYLER EVANS, HYDROGEOLOGIST	
Contractor:	HARGIS & ASSOCIATES, INC.	9171 TOWNE CENTRE DR.,SUITE 375	858/455-6500
		SAN DIEGO, CA. 912122	

Deposit Refunded to N/A

DESCRIPTION OF WORK: The City engineer hereby authorizes the Permittee to do the following work including backfilling, compaction, surfacing and/or as outlined in the description of work below.

ANNUAL GEOLOGICAL PERMIT FOR THREE (3) OFF-SITE MONITORING WELLS TO MONITOR GROUNDWATER (GAUGE POTENTIOMETRIC SURFACE AND COLLECT SAMPLES) IN SUPPORT OF GROUNDWATER INVESTIGATION PER CITY STANDARDS AND CONDITIONS. TRAFFIC CONTROL PER CURRENT WATCH MANUAL. REMOVE ALL USA MARKINGS. A PRE-CONSTRUCTION MEETING IN THE FIELD WITH CITY INSPECTOR, 714-562-3693 MUST BE SCHEDULED NO LESS THAN 48 HOURS PRIOR TO THE START OF WORK. PERMIT EXPIRES 03/01/19.

THIS PERMIT IS ISSUED SUBJECT TO THE FOLLOWING CONDITIONS:

PERMIT MUST BE KEPT AT THE SITE OF THE WORK AND BE SHOWN, ON DEMAND, TO ANY AUTHORIZED REPRESENTATIVE OF THE CITY OF BUENA PARK OR ANY LAW ENFORCEMENT OFFICER.

PERMIT SHALL AUTHORIZE WORK TO BE PERFORMEO ONLY AS TO SUCH PORTION OF THE HIGHWAY OVER WHICH THE CITY OF BUENA PARK HAS JURISDICTION.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THIS PERMIT AND OF ALL APPLICABLE LAWS, RULES, AND REGULATIONS OF THE CITY AND ANY OTHER PUBLIC AGENCY AND TO THE SATISFACTION OF THE CITY ENGINEER.

THIS PERMIT SHALL BE NON-TRANSFERABLE.

THE CITY ENGINEER, AT HIS DISCRETION, MAY CANCEL THE PERMIT UNLESS THE WORK AUTHORIZED HEREIN IS COMMENCED WITHIN SIXTY (60) DAYS FROM DATE OF ISSUANCE, AND IS DILIGENTLY PROSECUTED TO COMPLETION, CANCELLATION MAY BE EFFECTED BY GIVING WRITTEN NOTICE THEREOF TO THE APPLICANT BY ORDINARY MAIL TO THE ADDRESS SHOWN ON THE APPLICATION.

THE CITY ENGINEER MAY, EITHER AT THE TIME OF THE ISSUANCE OF THE PERMIT OR AT ANY TIME THEREAFTER UNTIL THE COMPLETION OF THE WORK, PRESCRIBE SUCH ADDITIONAL CONDITIONS AS HE MAY DEEM REASONABLY NECESSARY FOR THE PROTECTION OF THE HIGHWAY OR FOR THE PREVENTION OF UNDUE INTERFERENCE WITH TRAFFIC OR TO ASSURE THE SAFETY OF PERSONS USING THE HIGHWAY.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS (CURRENT ISSUE) EXCEPT AS MODIFIED BY THE CITY OF BUENA PARK STANDARD PLANS (CURRENT ISSUE) OR AS DIRECTED BY THE CITY ENGINEER.

WORK TO START: WANTS INSPECTION:

INSPECTION REPORT

PRELIM CHECK		FIND CHECK		DEPOSIT REMARKS		REMARKS
Date	By	Date	By	Release Ok	Forfeit	

APPLICANT MUST COMPLY WITH ALL REGULATIONS.

Signature of Applicant

ITThomas
By KIM THOMAS, PERMIT TECHNICIAN

PERMITTEE SHALL GIVE CITY 48 HOURS NOTICE WHEN REQUESTING INSPECTION UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE (714) 562-3670

SIGNATURE: _____ DATE: 2/27/18 PERMIT NO.: 618-005

REGULATIONS GOVERNING PERMIT ISSUED SUBJECT TO THE PROVISIONS OF THE MUNICIPAL CODE OF THE CITY OF BUENA PARK

COMPLIANCE WITH TERMS OF PERMIT REQUIRED

A permittee shall not make or cause to be made any excavation, or construct, place upon, maintain, or leave any obstruction or impediment to travel, or pile or place any material in or upon any highway, or install or maintain or cause to be installed or maintained any tank, pipe, conduit, duct, or tunnel in, upon, or under the surface of any highway, at any location or in any manner other than that described in the application as approved by the Engineer, or contrary to the terms of the permit or of any provisions of this permit.

TRAFFIC TO BE KEPT OPEN

Trenching for installations across any intersecting roadway open to traffic shall be progressive. Not more than ½ of the width of a traveled way shall be disturbed at one time and the remaining width shall be kept open to traffic by bridging or backfilling.

LOCATION OF PIPES AND CONDUITS

All pipes and conduits laid parallel to the roadway shall be placed at least five (5) feet from the edge of the pavement or graded traveled roadway, unless otherwise authorized in writing by the Engineer. The shallowest portion of any pipe line or other facility shall be installed not less than thirty (30) inches below the roadway surface.

WORK REGULATIONS

In backfilling there shall be no flooding of the trench within the upper twenty-four (24) inches. All loose backfill shall be dampened and well tamped with a pneumatic tamper or in any other workmanlike manner satisfactory to the Engineer, to obtain 90% relative compaction.

All excavated material shall be cast away from the improved portion of the highway. After the work has been completed all excess material, including excess excavation, shall be removed from the right of way and the road-way left in a neat and orderly condition.

All roadside drainage ditches shall be restored to a true grade and the intake and outlet ends of all culverts shall be left free from all excess materials and debris.

All approaches to private driveways and intersecting roads and streets shall be kept open to traffic at all times, unless otherwise approved by the City Engineer.

Clay and earth which adhere to the paved surface of the roadway shall be removed by hand scraping, washing, and sweeping, or by any other method which will leave a clean non-skid surface without impairing, injuring or loosening the surface.

All muck or mud resulting from water or any leaky condition will be removed and excavation backfilled with compactible material which is most effective.

Permittee shall comply with any and all directives issued by the City Engineer in order to prevent dust or other material from becoming a nuisance or annoyance.

PROTECTION OF TRAVELING PUBLIC

Traffic control devices shall be in place prior to start of work. Devices and layout shall conform to the latest edition of THE STATE OF CALIFORNIA manual of warning signs, lights, and devices for use in performance of work upon highways.

Permittee shall take adequate precautions for the protection of the traveling public. Barricades, lights, and warning signs, together with flagmen where necessary, shall be maintained until the excavation is refilled, the obstruction removed, and the roadway is safe for the use of the traveling public. The Engineer may specify, as a condition of the issuance of the permit, the safety devices or measures to be used by the permittee, but the failure of the Engineer to so specify the devices or measures to be used shall not relieve the permittee of his obligation hereunder.

COST OF FURTHER REPAIRS TO BE PAID BY PERMITTEE

If at any time subsequent to the first repair of a surface of a highway damaged or destroyed by any excavation or obstruction in such highway, it becomes necessary again to repair such surface due to settlement or any other cause directly attributable to such excavation or obstruction, the permittee shall pay to the City the cost of such additional repairs made by the Engineer. The cost shall be computed by the Engineer.

RESTORATION OF HIGHWAY UPON COMPLETION OF WORK

Immediately upon completion of the work necessitating the excavation or obstruction authorized by any permit issued pursuant to this permit, the permittee shall promptly and in a workmanlike manner refill the excavation or remove the obstruction to the satisfaction of the City Engineer.

If any permittee fails or refuses to refill any excavation which he has made or remove any obstruction which he has placed on any highway, the Engineer may do so and the applicant shall promptly reimburse the City the cost thereof.

RESURFACING BY PERMITTEE OR CITY AND SPECIFICATIONS THEREFOR

TEMPORARY PATCHING OF TRENCH IS REQUIRED ON LATERAL CUTS IN SURFACED STREETS IMMEDIATELY AFTER BACKFILLING.

After completion of the refilling and compacting of the backfill material in the excavation as specified and the removal of the obstruction, the permittee shall promptly replace with temporary or permanent patching material or repair any portion of the highway surface removed or damaged by the excavation, obstruction or construction operations to the satisfaction of the City Engineer, and as specified elsewhere herein, or the Engineer may at his option elect to do the surfacing or repairing himself.

Where the pavement, except Portland Cement Concrete pavement, or surface has been removed by others, the permittee shall replace it with a standard repair of 3" A.C. over 6" A.B. or repair section shall be 1" A.C. and 1" A.B. greater than existing structural section, whichever is greater. Plant Mix surfacing over native soil is 4" A. C. minimum. . Portland Cement surfacing shall be replaced with Portland Cement Concrete. A.C. shall conform to Standard Specifications (STATE OF CALIFORNIA) consisting of AR4000 (85-100) paving asphalt, ¾" maximum aggregate for base course (medium) and ½" aggregate for surface course (medium). A.B. shall conform to Standard Specifications (STATE OF CALIFORNIA) Class III modified. Seal, Tack and Prime coats required. Saw cutting of edges of trenches are required for all surfaces. Equivalent total A.C. sections may be substituted with the approval of the City Engineer.

COST OF RESURFACING TO BE BORNE BY PERMITTEE

If, after the refilling of an excavation the permittee fails or refuses to resurface or repair that portion of the surface of the highway damaged by him, or if the Engineer has elected to do such resurfacing or repairing, the Engineer shall do so and the permittee shall be charged with the cost thereof computed by the Engineer.

PERMITTEE TO PAY DEFICIENCY

If any deposit is insufficient to pay all fees and costs herein provided, the permittee shall, upon demand, pay to the City of Buena Park an amount equal to the deficiency.

EFFECT OF FAILURE TO PAY COSTS OF DEFICIENCY

If a permittee, upon demand, fails to pay any deficiency as provided, or shall fail to pay any other costs due the City hereunder for which no deposit has been made, the City may recover the same by an action in any court of competent jurisdiction. Until such deficiency or cost is paid in full, a permit hereunder shall not thereafter be issued to such permittee.

PERMITTEE SHALL PROVIDE ACCESS

In the event that any work permitted by this permit prevents or hinders vehicular or pedestrian traffic to travel from the street to any property, whether public or private, then the permittee shall construct and maintain such structures as the City Engineer shall prescribe as will permit access to said property.

PERMITTEE SHALL SAVE CITY HARMLESS

The permittee guarantees to save, indemnify and keep harmless the City of Buena Park and all its agents, officers, employees, and officials against all liabilities, judgments, costs and expenses which may in any manner or form arise in consequence to the issuance of this permit or any work performed in consequence thereof.

CITY OF BUENA PARK
Department of Public Works

ENCROACHMENT CONDITIONS FOR PERMIT# G18-005

Conditions governing permit issued, subject to the provisions of the Buena Park Municipal Code

A permittee shall not make or cause to be made any excavation, or construct, place upon, maintain or cause to be installed or maintained any tank pipe, conduit, duct, or tunnel in, upon, or under the surface of any highway, at any location or in any manner other than that described in the application as approved by the Engineer, contrary to the terms of the permit or of any provisions of this permit.

1. General Contractor is responsible for the subcontractors conduct. SUPERINTENDENT MUST BE ON THE JOB SITE AT ALL TIMES WHEN WORK OF ANY KIND IS TAKING PLACE.

2. The Contractor shall schedule a pre-construction meeting in the field with the City Inspector, (714) 287-5970 and / or (714) 743-7592, no less than 72 hours prior to the beginning of construction. THE CONTRACTOR'S FOREMAN ASSIGNED TO THE PROJECT SHALL ATTEND THE PRECONSTRUCTION MEETING

3. 48-Hours prior to start of construction the Contractor shall notify Underground Service Alert (U.S.A) at 1-800-227-2600.

4. Traffic control per the current W.A.T.C.H. manual unless Traffic Control Plans are required by the Engineer. Solar powered arrowboards are required for all lane closures. Provide flagmen as directed by the Engineer.

5. 72-Hour prior inspection notice required for lane closures, excavations, detours, hauling, etc.

6. Excavation and shoring plans prepared by a Civil or Structural Engineer shall be submitted to City no less than three (3) days prior to beginning work for excavations 5' (1.5m) deep or greater. Also submit a copy of State Excavation Permit

7. Haul route plans shall be submitted to the City of Buena Park Traffic Engineer for approval no less than five (5) days prior to beginning work. Upon approval of plans, the contractor shall apply for a haul permit.

8. The Contractor/Developer shall employ or designate a full time safety officer for the duration of the project.

9. Contractor's activities shall be confined to Monday through Friday between the hours of 7:00 a.m. and 4:00 p.m. for residential streets and 9:00 a.m. to 3:00 p.m. for arterial streets, unless otherwise approved by the Engineer.

10. At the end of each day the Contractor shall remove all equipment, construction debris, and materials from the construction area. Trenches shall either be backfilled with temporary pavement or covered with steel plates and traffic returned to its normal condition.

11. Stockpiling materials in public right of way is prohibited.

12. Existing improvements to be protected in place. Both public and private improvements which are damaged or destroyed due to the contractor's own convenience and/or negligence shall be reconstructed to the satisfaction of the Engineer within 3 calendar days.

13. Contractor shall pothole all utilities prior to excavation or boring.

14. Soils Engineer must be on job site at all times during grading, backfill and compaction operations.

15. Excavation per City of Buena Park Standard No. 310. Backfill shall be 1 1/2 sack cement sand slurry, unless otherwise directed by the Engineer. 95% compaction required. Clean sand bedding and backfill shall have a minimum

CITY OF BUENA PARK
Department of Public Works

ENCROACHMENT CONDITIONS FOR PERMIT# G18-005

Conditions governing permit issued, subject to the provisions of the Buena Park Municipal Code

sand equivalent of 30.

16. Provide dust control at all times. Clean streets with mobile sweeper daily, continuously during hauling operations. Sweeper and water truck MUST be on job at all times.

17. Hydrant meter required for construction water.

18. Curb ramps shall be asphalt with 3" (7.6 cm) minimum I.D. steel pipe in the gutter.

19. Asphalt base course paving shall be installed to the finish surface within 5 working days of completion of work unless otherwise approved by the Engineer.

20. Excavation and boring operations shall not take place on any days when City Hall is closed unless otherwise approved by the Engineer.

21. Upon completion of work the contractor shall clean streets to the satisfaction of the Engineer

22. Steel traffic plates shall not remain at any one location for more than 4 working days unless otherwise approved by the Engineer.

23. Stompers and Rockwheels shall NOT be used for ANY portion of work on this project.

24. Upon completion of work the contractor shall remove all U.S.A. markings.

25. Permanent asphalt paving shall be completed within ten (10) working days of completion of work.

26. As a condition prior to issuing this permit, Contractor agrees to provide evidence of commercial general liability insurance, automobile liability insurance, and worker's compensation insurance, at levels prescribed by the City, and including additional insured endorsements for general and automobile liability and a waiver of subrogation for worker's compensation, satisfactory to the City.

27. Permit deposits of $1,000 or less shall be 100% refundable upon project release by Public Works City Inspector. For deposits over $1,000, 10% of the deposit (per discretion of the Public Works City Inspector, depending on the work being performed) shall be retained for 1 year from the final project release date as a warranty bond.

ACKNOWLEDGEMENT

I (We) the undersigned hereby acknowledge that I (We) have received these Conditions to the encroachment permit issued by the City of Buena Park and that all permit conditions specified herein will be adhered to by the Contractor/Developer on this project.

——— (SAME) →		2/27/18	Tyler Evans
Date	Applicant Print Name	Date	Contractor Print Name
→		T J E	
	Applicant Signature		Contractor Signature

Fee Items- G18-005 09:29 02/27/2018

Item #	Description	Fee Amount	Pmt Amount	Balance	Account code
2020	Improvements/Inspection	$440.00	$0.00	$440.00	11-3729-760310
2165	Encroachment Permit	$30.00	$0.00	$30.00	11-3216-760310

Total Rows: 2

TOTAL = $470.00

Hargis + Associates
Re. Meadowbrook + Rockledge
(Geological Samples - Annual)

COUNTY PROPERTY PERMIT

5/3/2018

2018-00306
Balkis, Mustapha 4:11:58 PM
INSPECTION PHONE
(714)955-0341
Inspection office shall be notified at least TWO (2) WORK DAYS PRIOR to commencing permitted use. FAILURE TO OBTAIN INSPECTION SHALL VOID THIS PERMIT

ENCROACHMENT PERMIT
COUNTY OF ORANGE
OC Public Works/ OC Planning/ County Property Permits

Main Office: 300 North Flower Street,
Santa Ana, California 92703-5001
or P.O. Box 4048, Santa Ana, California 92702-4048
(714) 667-8888
Fax: (714) 667-8885

Permit No: **2018-00306**
Effective Date: 5/1/2017 12:00 AM
Expiration Date: 5/1/2019 12:00 AM

Applicant assumes sole responsibility for obtaining a rider (extension) prior to this date

PERMITTEE

Raytheon Company
1801 Hughes Drive

Fullerton, CA 92834
714-446-3525

Contact Person Paul Brewer
Telephone No. 714-446-3525

FACILITY

Type	Facility Name	Number
	BREA CREEK CHANNEL	A02

Permittee Ref No.: Replaces Permit: 2017-00292

Insured Hargis + Associates Inc. **Policy** MZX80987262 **Expires** 5/1/2019

PERMITTED USE: User of County property is hereby authorized as follows, subject to provisions attached hereto:

Replaces Permit: 2017-00292

Temporary access for monitoring one (1) groundwater well #MW-36 located at 8600 Malvern Avenue, in Buena Park within a portion of Orange County Flood Control District's Brea Creek Channel (A02) right-of-way, per attached plans and provisions.

-Permittee is responsible for notifications to individuals and or agencies that may be affected by the discharge.
- Permittee should conduct a video inspection of all permitted pipes discharging to County of Orange maintained facility every 5 years or after repair or replacement of discharge lines.
- Permittee is responsible for cleanup and security of site.
- Permittee to coordinate access with inspection staff.
- If permitted actions identify larger scale construction issue the permitted will be required to initiate construction permit.

CEQA Code 1 SWPPP: No

LOCATION OF WORK:

Brea Creek Channel (A02) at 8600 Malvern Avenue, Buena Park

Dimension/Type: (1) Mornitoring Well Thomas Brother: 738; A6 Area: Buena Park

CONSIDERATION:

Types	PWO#	Permit Fees	Surety	Penalty	App Fee	Flat	Total	Total Fees: 787.95
FT	EF68010	721.00 (2074)	0.00 (2091)	0.00	66.95 (2161)	0.00 (2071)	787.95	

PERMITTEE'S ACCEPTANCE:

SIGNATURE ON FILE

COUNTY APPROVAL:

Olivera, Jerry 5/2/2018

PERMIT AND APPROVED PLANS SHALL BE MAINTAINED ON JOB SITE. PERMITTEE SHALL COMPLY WITH REGULATIONS PRINTED ON REVERSE SIDE OF PERMIT AND ATTACHMENTS. ALL UNDERGROUND WORK REQUIRES PRIOR 'UNDERGROUND SERVICE ALERT' COMPLIANCE. THIS PERMIT IS NON-TRANSFERABLE

Note: Surety will not be refunded until Final Inspection is performed and submitted to County Property Permits.

ENCROACHMENT PERMIT

Surety Paid By: **TUF Invoice Paid By:**

Contractor:	Hargis + Associates, Inc.; 9171 Towne Centre Drive, Suite 375, San Diego, CA 92122; Contact: Steven P. Netto, 858-455-6500 x 130, snetto@hargis.com
Engineer:	Hargis + Associates, Inc.; 9171 Towne Centre Drive, Suite 375, San Diego, CA 92122; Contact: Steven P. Netto, 858-455-6500 x 130, snetto@hargis.com
Inspection:	Operations & Maintenance CC: Operations & Maintenance

PERMIT INSPECTORS REPORT:

DATE WORK COMPLETED:_____

The permitted work was completed in satisfactory manner per instructions and/or the as-built plans and inspectors report submitted herewith for county files

Remarks:

Inspector:

Date

Permit Superintendent:

Date

Refund Recommended By:

Date

Refund Approved By:

Date:

COUNTY PROPERTY PERMIT

5/3/2018

2018-00305
Balkis, Mustapha 4:11:34 PM
INSPECTION PHONE
(714)955-0341
Inspection office shall be notified at least TWO (2) WORK DAYS PRIOR to commencing permitted use. FAILURE TO OBTAIN INSPECTION SHALL VOID THIS PERMIT

ENCROACHMENT PERMIT
COUNTY OF ORANGE
OC Public Works/ OC Planning/ County Property Permits

Main Office: 300 North Flower Street,
Santa Ana, California 92703-5001
or P.O. Box 4048, Santa Ana, California 92702-4048
(714) 667-8888
Fax: (714) 667-8885

Permit No: **2018-00305**
Effective Date: 5/1/2018 12:00 AM
Expiration Date: 5/1/2019 12:00 AM
Applicant assumes sole responsibility for obtaining a rider (extension) prior to this date

PERMITTEE

Raytheon Company
1801 Hughes Drive

Fullerton, CA 92834
714-446-3525

Contact Person Paul Brewer
Telephone No. 714-446-3525

FACILITY

Type	Facility Name	Number
	BREA CREEK CHANNEL	A02

Permittee Ref No.: Replace permit: 2017-00311

Insured Hargis + Associates Inc. **Policy** MZX80987262 **Expires** 5/1/2019

PERMITTED USE: User of County property is hereby authorized as follows, subject to provisions attached hereto:

Replace permit: 2017-00311

Original permit: Temporary access for monitoring one (1) groundwater well # MW-39 located at 1901 W. Malvern Avenue, at Dale Street, in Buena Park within a portion of Orange County Flood Control District's Brea Creek Channel (A02) right-of-way, per attached plans, provisions, and to the satisfaction of County inspection personnel.

-Permittee is responsible for notifications to individuals and or agencies that may be affected by the discharge.
-Permittee should conduct a video inspection of all permitted pipes discharging to County of Orange maintained facility every 5 years or after repair or replacement of discharge lines.
- Permitted use not effective until approved by the assigned inspector.
- Permittee is responsible for cleanup and security of site.
- Permittee to coordinate access with inspection staff.
- If permitted actions identify larger scale construction issue the permitted will be required to initiate construction permit.

CEQA Code 1 SWPPP: No

LOCATION OF WORK:

Brea Creek Channel (A02) at 1901 W. Malvern Avenue, at Dale Street, in Buena Park.

Dimension/Type: (1) Mornitoring Well Thomas Brother: 738; A6 Area: Buena Park

PERMITTEE'S ACCEPTANCE:	COUNTY APPROVAL:
SIGNATURE ON FILE	Olivera, Jerry 5/2/2018

PERMIT AND APPROVED PLANS SHALL BE MAINTAINED ON JOB SITE. PERMITTEE SHALL COMPLY WITH REGULATIONS PRINTED ON REVERSE SIDE OF PERMIT AND ATTACHMENTS. ALL UNDERGROUND WORK REQUIRES PRIOR 'UNDERGROUND SERVICE ALERT' COMPLIANCE. THIS PERMIT IS NON-TRANSFERABLE.

Note: Surety will not be refunded until Final Inspection is performed and submitted to County Property Permits.

ENCROACHMENT PERMIT

CONSIDERATION:

Types	PWO#	Permit Fees	Surety	Penalty	App Fee	Flat	Total	Total Fees: 787.95
FT	EF68010	721.00 (2074)	0.00 (2091)	0.00	66.95 (2161)	0.00 (2071)	787.95	

Surety Paid By: TUF Invoice Paid By:

Contractor: Hargis + Associates, Inc.; 9171 Towne Centre Drive, Suite 375, San Diego, CA 92122; Contact: Steven P. Netto, 858-455-6500 x 130, snetto@hargis.com

Engineer: Hargis + Associates, Inc.; 9171 Towne Centre Drive, Suite 375, San Diego, CA 92122; Contact: Steven P. Netto, 858-455-6500 x 130, snetto@hargis.com

Inspection: Operations & Maintenance CC: Operations & Maintenance

PERMIT INSPECTORS REPORT:

DATE WORK COMPLETED:_____

The permitted work was completed in satisfactory manner per instructions and/or the as-built plans and inspectors report submitted herewith for county files

Remarks:

Inspector:

Date

Permit Superintendent:

Date

Refund Recommended By:

Date

Refund Approved By:

Date:

SCANNED
4-4-19 JAK

FEBRUARY 2019

ANNUAL GROUNDWATER MONITORING
FIELD NOTEBOOK
LARGE VOLUME MONITOR WELLS

RAYTHEON COMPANY

532.30

1901 MALVERN AVE.
FULLERTON, CALIFORNIA

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

HARGIS + ASSOCIATES, INC.

DAILY FIELD SAFETY BRIEFING ATTENDANCE SHEET

Date: 2/15/19

Location: FULLERTON, CA

Presented by: AMD

A. GENERAL INTRODUCTION

1. Location of site Health and Safety Plan (HSP) and ensure everyone has read the site HSP.
2. Primary hazards and controls (chemical, physical, and biological).
3. Sanitation and decontamination (potable water, nonpotable water, toilet, sink, shower).
4. General Site Rules.
5. Emergency Response Plan (location where emergency telephone numbers and hospital route posted, shower, first aid kit, fire extinguisher, alarm system, evacuation, meeting place, contingencies, upwind).
6. Establish buddy system.

B. SPECIFIC PRECAUTIONS FOR DAY'S ACTIVITIES Go over the hospital route daily; wear traffic vests, use safety cones, and be aware of traffic whenever in or near the roadways; wear sunscreen and hydrate well; wear gloves and take appropriate precautions when handling contaminated groundwater; watch for black widow spiders in vaults. Notify your supervisor and field partner of any issues.

C. ON-SITE ORGANIZATION AND COORDINATION

D. OTHER TOPICS:

ATTENDEE LIST

PRINT NAME	SIGNATURE	COMPANY	DATE
Andrew Donnelly	A Donnelly	HARGIS + ASSOC., INC	2/15/19
Nadja Scholl		HARGIS + ASSOC., INC	2/15/19
Christian Diaz		HARGIS + ASSOC., INC	02/15/2019
DJ Searce		H+A	02/15/2019

FIELD CONTACTS

OCWD MARSH WELL CONVERSION (1161.02)

H+A Project Team Cell Numbers

CGAR: 619.994.9710
RAN: 619.871-9002
EJH: 530.306.7049
DM: 760.399.7881

Orange County Water District (OCWD)
18700 Ward Street
Fountain Valley, Ca 92708
David Field (office) . . . . . (714) 378-3237
(cell) . . . . . (714)722-7323

Yellow Jacket Drilling Services
Tim Cechini (cell) . . . . . (909) 721-6726
Catherine (driller) . . . . . (714) 388-8421
Chris Neal (supervisor) (office) . . . . . (909) 989-8563

RENTAL VENDORS

Eco-Rental Solutions . . . . . . (949) 398-4600
3002 Dow Avenue, Suite 130,
Tustin, CA 92780

Pine Environmental Services . . . . . . (949) 263-1500
1350 Reynolds Ave # 117,
Irvine, CA 92614-5534
Angela Reiter (cell) . . . . . . (949) 943.7302

United Site Services . . . . . . (800) 864-5387

Pacific Surveys . . . . . . (909) 625-6262
Michael Ridder

American Intergrated Serices . . . . . . (310) 522-1168
Melynda Borrego . . . . . . (310) 864-2489
Dispatch . . . . . . (310) 428-4402

Rain for Rent . . . . . . (800) 742-7246
Long Beach . . . . . . (562) 595-7760

Driving Directions

Starting from: 1 Raytheon Site: 1901 W. Malvern Ave., Fullerton, California 92833-2177

Arriving at: 2 St. Jude Medical Center: 101 E. Valencia Mesa, Fullerton, California 92835-3809

Distance: 2.4 miles **Approximate Travel Time:** 5 minutes

Directions		Miles	
1.	Start on **MALVERN AVE**	0.1	↑
2.	Turn Left on **W BASTANCHURY RD**	2.2	↰
3.	Turn Right on **N HARBOR BLVD**	0.2	↱
4.	Turn Left on **E VALENCIA MESA DR**	0.0	↰
Distance: 2.4 miles **Approximate Travel Time:** 5 minutes			

FIGURE 9

ROUTE TO HOSPITAL

INSTRUMENT CALIBRATION LOG FOR GROUNDWATER SAMPLING: Temp + pH + EC + DO + ORP

DATE	TIME	pH BUFFER	pH READING	TEMP of Soln (C)	METER TYPE	EC STANDARD (mS/cm)	EC READ-ING (mS/cm)	DO READ-ING (mg/l)	ORP READ-ING (mV)	COMMENTS/ TEMP OR ALTITUDE CORRECTION FACTOR	INITIALS
2-19-19	0742	10.21	10.29	9.8	FA01786	~~5.017~~ 7.000	6.018	7.92	147.8		
↓	↓	4.00	4.03	9.4	↓						
↓	↓	7.07	6.93	9.8	↓	7.000					
2-20-19	0745	10.21	10.39	10.2		~~7.000~~	5731	7.418	148.3		
↓	↓	4.00	4.23	10.2							
↓	↓	7.07	7.09	10.2							

HARGIS + ASSOCIATES, INC.

STATIC WATER LEVEL DATA SHEET

MONTH/YEAR: FEBRUARY 2019

METHOD OF MEASUREMENT/SOUNDER IDENTIFIER: **FLAT TAPE ELECTRIC SOUNDER #_____**

PROJECT NUMBER: **532.30**

WELL IDENTIFIER	DATE	TIME	MEASURING POINT	DEPTH TO WATER FROM REFERENCE POINT (+feet)	REFERENCE POINT ELEVATION (ft msl)	WATER LEVEL ELEVATION (ft msl)	NOVEMBER 2018 PREVIOUS DEPTH TO WATER (ft)	CHANGE IN WATER LEVEL (± ft)	COMMENTS	INITIALS
P-07	02/11/19	14:42	TOC	111.71	142.31	30.60	112.54	+0.83		NES/DJS
P-09	02/ /19				183.86		120.86			
MW-06	~~02/11/19~~	~~1211~~	~~TOC~~	~~132.59~~	184.70		163.09			
MW-08	02/11/19	1211	TOC	132.59	155.91	23.32	133.18	+0.59		NES/DJS
MW-09	02/ /19				180.10		158.90			
MW-13	02/ /19				141.84		129.19			
MW-15	02/11/19	1308	TOC	130.53	144.95	14.42	129.65	-0.88		NES/DJS
MW-16	02/11/19	1320	TOC	122.99	142.40	19.41	128.51	+5.52		↓
MW-17	02/ /19				142.70		132.61			
MW-18	02/ /19				142.32		133.16			
MW-19	02/ /19				142.06		132.85			
MW-20	02/ /19				184.19		156.43			
MW-21	02/11/19	1326	TOC	117.73	141.18	23.45	118.22	+0.49	Totalizer: Pumping?	NES/DJS
MW-22	02/ /19				138.65		129.33			
MW-23	02/ /19				137.33		129.36			
MW-24	02/17/19	1317	TOC	119.46	142.83	23.37	122.04	+2.58		NES/DJS
MW-25	02/11/19	1315	TOC	121.57	142.64	21.07	123.62	+2.05		↓
MW-26A	02/ /19				137.04		123.48			
MW-26B	02/ /19				137.05		121.44			
MW-26C	02/ /19				137.22		124.60			

msl = Mean sea level
ft = feet

HARGIS + ASSOCIATES, INC.

STATIC WATER LEVEL DATA SHEET

MONTH/YEAR: FEBRUARY 2019

METHOD OF MEASUREMENT/SOUNDER IDENTIFIER: **FLAT TAPE ELECTRIC SOUNDER #_____**

PROJECT NUMBER: **532.30**

WELL IDENTIFIER	DATE	TIME	MEASURING POINT	DEPTH TO WATER FROM REFERENCE POINT (+feet)	REFERENCE POINT ELEVATION (ft msl)	WATER LEVEL ELEVATION (ft msl)	NOVEMBER 2018 PREVIOUS DEPTH TO WATER (ft)	CHANGE IN WATER LEVEL (± ft)	COMMENTS	INITIALS
MW-27	02/ /19				137.16		124.26			
MW-28	02/ /19				140.77	17.91	128.31			
MW-29	02/11/19	~~1235~~ 1211	TOST	~~121.90~~ 132.59	139.81	~~18.67~~	127.88	+5.98	Totalizer: Pumping? (Not pumping during last WL 11/06/18)	NES/DJS
MW-30A	02/11/19	954	TOST	110.78	129.44	18.66	117.70	+ 6.92		
MW-30B	02/11/19	957	TOST	108.04	129.39	21.35	114.36	+ 6.32		
MW-31	02/11/19	945	TOST	98.46	119.60	21.14	107.14	+ 8.68		
MW-32A	02/11/19	748	TOST	~~73.93~~ 73.36	92.88	19.52	82.25	+ 8.89		
MW-32B	02/11/19	755	TOST	73.15	92.89	19.74	81.51	+ 8.36		
MW-32C	02/11/19	752	TOST	71.77	92.88	21.11	76.20	+ 4.43		
MW-33	02/11/19	831	TOST	64.55	83.19	18.64	73.45	+ 8.90		
MW-34A	02/ /19				153.25		149.91			
MW-34B	02/ /19				153.11		141.67			
MW-34C	02/ /19				153.29		140.66			
MW-35A	02/ /19	852	TOST	68.56	93.57	25.01	83.41	+ 14.85		NES/DJS
MW-35B	02/ /19	855	TOST	75.51	93.56	18.05	89.32	+ 13.81		
MW-35C	02/ /19	857	TOST	73.31	93.55	20.24	82.91	+ 9.60		
MW-36	02/ /19				86.65		77.37			
MW-37	02/ /19				155.60		142.32			
MW-38	02/ /19				154.90		153.90			
MW-39	02/ /19				84.25		75.45			

msl = Mean sea level
ft = feet

HARGIS + ASSOCIATES, INC.

STATIC WATER LEVEL DATA SHEET

MONTH/YEAR: FEBRUARY 2019

METHOD OF MEASUREMENT/SOUNDER IDENTIFIER: **FLAT TAPE ELECTRIC SOUNDER #_____**

PROJECT NUMBER: **532.30**

WELL IDENTIFIER	DATE	TIME	MEASURING POINT	DEPTH TO WATER FROM REFERENCE POINT (+feet)	REFERENCE POINT ELEVATION (ft msl)	WATER LEVEL ELEVATION (ft msl)	NOVEMBER 2018 PREVIOUS DEPTH TO WATER (ft)	CHANGE IN WATER LEVEL (± ft)	COMMENTS	INITIALS
MW-40	02/11/19	930	TOJ	100.95	123.40	22.45	109.71	+ 8.76		NES/DJS
MW-41	02/ /19				155.60		144.30			
EW-01	02/11/19	~~13 33~~ ~~13.26~~	~~TOJ~~ ~~TOT~~	~~121.22~~ ~~117.75~~	141.07	19.85	126.88	+ 5.66	SOUNDING TUBE TO 172.65 Totalizer: Pumping?	NES/DJS
EW-02	02/11/19	1045	TOT	113.19	132.97	19.78	125.55	↓ 12.36	Totalizer: Pumping?	↓

msl = Mean sea level
ft = feet

HARGIS + ASSOCIATES, INC.

FEBRUARY 2019 GROUNDWATER SAMPLE PLAN
TEAM 1

QA/QC	Total VOC's	1,4-Dixoane	APPROX. GALLONS	ESTIMATED TIME (minutes)	WELL IDENTIFIER	HYDROGEOLOGIC ZONE	FEBRUARY 2019 SAMPLING SCHEDULE	SAMPLE METHOD
	ND	< 0.20	252	21	MW-40	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	16	90	MW-09	Water Table; C	VOCs; 1,4-Dioxane	Redi-flo/Bailer
	1942	370	1.1	21	P-07	Perched Zone	VOCs; 1,4-Dioxane (8270 MOD)	Bailer
RB	0.41	< 0.20	187	34	MW-26C	Deep; B	VOCs; 1,4-Dioxane	Redi-flo
	0.9	< 0.20	133	65	MW-18	Deep; A	VOCs; 1,4-Dioxane	Redi-flo
	2.8	< 0.20	27	18	MW-13	Water Table; AB	VOCs; 1,4-Dioxane	Redi-flo
	3.3	NS	19	28	MW-06	Water Table; D	VOCs	Redi-flo
	4.3	< 0.20	110	36	MW-20	Water Table; D	VOCs; 1,4-Dioxane	Redi-flo
	7.2	2.1	20	29	P-09	Perched Zone	VOCs; 1,4-Dioxane	Redi-flo
	8.9	NS	24	32	MW-15	Water Table; AB	VOCs	Redi-flo
	169	2.4	22	18	MW-08	Water Table; BC	VOCs; 1,4-Dioxane	Redi-flo
SPT/DUP	588	60	118	49	MW-16	Water Table; B	VOCs; 1,4-Dioxane (8270 MOD)	Redi-flo

NOTES

A MS and MSD (3x40ml VOA and 1L amber) should be collected every day/ alternating 1,4-Dioxane methods as indicated.

1,4-Dioxane analysis method is 8270 SIM unless specified otherwise (if historical detect is > 5.0 ug/l MOD is used).

1 = Day - # refers to the day scheduled to sample and the corresponding dedicated pipestand to use: ND=1; 0-10=2; 10 - 100=3; >100=4

Wells with dedicated pumps should follow concentration order when possible.

RB = Rinsate blank taken on non-dedicated equipment each day- will vary with schedule and should be confirmed with both teams each morning.

HARGIS + ASSOCIATES, INC.

FEBRUARY 2019 GROUNDWATER SAMPLE PLAN
TEAM 2

QA/QC	Total VOC's	1,4-Dixoane	APPROX. GALLONS	ESTIMATED TIME (minutes)	WELL IDENTIFIER	HYDROGEOLOGIC ZONE	FEBRUARY 2019 SAMPLING SCHEDULE	SAMPLE METHOD
SPT/DUP	83	55	132	11	EW-01 ✓	Deep; B	VOCs; 1,4-Dioxane (8270 MOD)	Dedicated
	922	310	230	10	MW-21 ✓	Water Table; BC	VOCs; 1,4-Dioxane (8270 MOD)	Dedicated
	ND	< 0.20	660	50	MW-32A ✓	Deep; AB	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	963	95	MW-32C ✓	Water Table; C	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	1156	58	MW-35C ✓	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	543	29	MW-37 ✓	Deep; D	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	141	30	MW-38	Deep; A	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	857	38	MW-39 ✓	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
1.5/3 SV	3.7	< 0.20	900	49	MW-33 ✓	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
	22	7.7	159	29	MW-41 ✓	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
1.5/3 SV	53	7.3	974	75	MW-36 ✓	Deep; B	VOCs; 1,4-Dioxane (8270 MOD)	Ded.240V
1.5/3 SV	190	6.9	812	67	MW-32B ✓	Deep; B	VOCs; 1,4-Dioxane (8270 MOD)	Ded.240V

NOTE
1 = Day - # refers to the day scheduled to sample and the corresponding dedicated pipestand to use: ND=1; 0-10=2; 10 - 100=3; >100=4
A **MS** and **MSD** (3x40ml VOA and 1L amber) should be collected every day/ alternating 1,4-Dioxane methods as indicated.
1,4-Dioxane analysis method is 8270 SIM unless specified otherwise (if historical detect is > 5.0 ug/l MOD is used).
Wells with dedicated pumps should follow concentration order when possible.

HARGIS + ASSOCIATES, INC.

FEBRUARY 2019 GROUNDWATER SAMPLE PLAN
SUPPLEMENTAL (TEAMS DIVIDE AND CONQUER)

QA/QC	Total VOC's	1,4-Dixoane	APPROX. GALLONS	ESTIMATED TIME (minutes)	WELL IDENTIFIER	HYDROGEOLOGIC ZONE	FEBRUARY 2019 SAMPLING SCHEDULE	PURGE METHOD
	ND	< 0.20	170	17	MW-34A	Deep; A	VOCs; 1,4-Dioxane	Ded 240V
	36	17	180	10	MW-34B	Deep; B	VOCs; 1,4-Dioxane (8270 MOD)	Ded 240V
	ND	< 0.20	215	15	MW-34C	Deep; BC	VOCs; 1,4-Dioxane	Ded 240V
	ND	< 0.20	110	12	MW-28	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
	ND	< 0.20	456	38	MW-24	Deep; C	VOCs; 1,4-Dioxane	Ded.240V
	0.86	< 0.20	102	17	MW-27	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
	0.74	< 0.20	64	11	MW-30A	Deep; B	VOCs; 1,4-Dioxane	Ded.240V
SPT/DUP	105	0.49	132	26	MW-30B	Deep; BC	VOCs; 1,4-Dioxane	Ded.240V
	152	4.7	264	24	MW-31	Deep; B	VOCs; 1,4-Dioxane (8270 MOD)	Ded.240V

NOTES
1 = Day - # refers to the day scheduled to sample and the corresponding dedicated pipestand to use: ND=1; 0-10=2; 10 - 100=3; >100=4
An **MS** and **MSD** (3x40ml VOA and 1L amber) should be collected every day/ alternating 1,4-Dioxane methods as indicated.
1,4-Dioxane analysis method is 8270 SIM unless specified otherwise (if historical detect is > 5.0 ug/l MOD is used).
Wells with dedicated pumps should follow concentration order when possible.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/12/19 **TASK:** 532.30 **WELL ID:** MW-30A

Time 0759 Static DTW (ft below reference point)	109.79	Screen ~~Casing~~ Volume (SV ~~CV~~) (gallons) 17.6 3 SV ~~CV~~ (gallons) 52.8	Weather Conditions
Casing Total Depth (ft below reference point)	564	Purging Device sled pump Sampling Device QED pitot stand	Time 0756 Temp. 55
pump to screen Water Column (feet)	44	Pump: Depth (ft brp) 520 Type grundfos Voltage 240 HP 0.5	Skies Clear
Casing Capacity (Diameter 3 ") (gallons per foot)	0.4	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) Ø From ____

Initials: NES / DJS

Begin Purge 0822 End Purge 0835

Gallons Purged ~~52.8~~ CVs Purged 3

DTW (ft brp) 111.86 Time 0833

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0822	109.79	0	0	—	—	Begin	Purge	—	—	-	Pump on
0824	111.84	8.8	0.5	20.4	7.63	811	89.5	5.39	2.55	-	Q ≈ 4.5 gpm
0826	111.90	17.6	1	20.6	7.64	811	86.7	2.95	2.59	-	
0827	111.83	26.4	1.5	20.7	7.62	809	83.8	1.23	2.39	-	
0829	111.84	35.2	2	20.8	7.60	807	76.3	1.05	2.25	-	
0831	111.86	44	2.5	20.8	7.58	807	76.2	1.07	2.39	-	
0833	111.86	52.8	3	20.8	7.57	807	75.8	1.06	NM	-	
0835	NM	58	3.3	—	—	End	Purge	—	—	—	Pump off

SAMPLE COLLECTION SAMPLE TIME 0835

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/12/19 **TASK:** 532.30 **WELL ID:** MW-30B

Time 0843 Static DTW (ft below reference point)	114.41	screen SV Casing ~~Volume (CV)~~ (gallons) 40 3 SV (gallons) 120	Weather Conditions	Initials: NES / DJS
Casing Total Depth (ft below reference point)	619	Purging Device ded. pump Sampling Device 7100 pump stand	Time 0840 Temp. 56	Begin Purge 0845 End Purge 0915
pump to screen Water Column (feet)	99	Pump: Depth (ft brp) 520 Type grundfos Voltage 240 HP	Skies clear	Gallons Purged 150 CVs Purged 3.8
Casing Capacity (Diameter ") (gallons per foot)	0.4	Monitor Well Recharge Rate: Slow Fast ✓	Wind (mph) 0 From	DTW (ft brp) 134.07 Time 0909

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0845	114.41	0	0			Begin Purge				-	Q ≈ 5 gpm
0849	128.10	20	0.5	20.5	7.34	1462	-217.9	1.73	3.69	-	
0853	130.61	40	1	20.8	7.33	1617	-182.1	1.59	3.00	-	
0857	131.87	60	1.5	20.9	7.31	1610	-162.5	2.17	7.00	-	
0901	132.89	80	2	20.9	7.35	1455	-156.1	1.83	5.24	-	
0905	133.55	100	2.5	20.9	7.36	1416	-150.0	1.64	3.34	-	
0909	134.07	120	3	20.9	7.36	1420	-149.5	1.60	2.63	-	
0915	NM	150	3.75			End Purge				-	

SAMPLE COLLECTION SAMPLE TIME 0915

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane	3	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

(DUPLICATES) / (SPLITS) / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Split and Dup MW-30B @ 0916

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/12/19 **TASK:** 532.30 **WELL ID:** MW-28

Time 0944 Static DTW (ft below reference point)	121.29	screen Casing Volume (~~CV~~ SV) (gallons) 29.7	3 ~~CV~~ SV (gallons) 89.1	Weather Conditions Time 0942 Temp. 59 Skies clear Wind (mph) 1 From	Initials: NES/DJS
Casing Total Depth (ft below reference point)	375	Purging Device dedi pump Sampling Device ND pre-set			Begin Purge 0953 End Purge 1005
pump to screen Water Column (feet)	45	Pump: Depth (ft brp) 330 Type grundfos Voltage 240 HP 0.5			Gallons Purged 810 CVs Purged 3.7
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast x			DTW (ft brp) 131.73 Time 1003

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0953	121.29	0	0	—		Begin	Purge	—		-	
0954	130.88	14.9	0.5	21.0	7.42	1161	-56.2	4.06	10.21	-	Q = 13 gpm
0956	131.52	29.7	1	20.7	7.40	1096	-40.1	3.19	3.06	+	
0957	131.61	44.6	1.5	20.8	7.41	1099	-30.5	3.24	4.01	-	
0959	131.65	59.4	2	20.8	7.42	1110	~~-29.1~~ -31.1	3.21	4.95	-	
1001	131.71	74.25	2.5	20.8	7.41	1109	-11.0	3.20	2.29	-	
1003	131.73	89.1	3	20.9	7.46	1106	-10.8	3.17	3.86	-	
1005	NM	~110	3.7	—		End	Purge	—		—	

SAMPLE COLLECTION SAMPLE TIME 1005

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/12/19 **TASK:** 532.30 **WELL ID:** MW-36

Time 1205 Static DTW (ft below reference point)	69.07	screen SV Casing ~~CV~~ Volume (CV) (gallons) 320 3 CV (gallons) 960	Weather Conditions: Time 1205 Temp. 60
Casing Total Depth (ft below reference point)	994	Purging Device ded. pump Sampling Device 10-100 pipestand	Skies clear
pump to screen Water Column (feet)	534	Pump: Depth (ft brp) 460 Type grundfos Voltage 240 HP –	Wind (mph) – From –
Casing Capacity (Diameter 4 ") (gallons per foot)	0.6	Monitor Well Recharge Rate: Slow ____ Fast X	Initials: NES/DJS
			Begin Purge 1210 End Purge 1325
			Gallons Purged 973 CVs Purged 3.
			DTW (ft brp) 72.83 Time 1329

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1210	69.07	0	0	——		Begin Purge			——	–	Q ≈ 17 gpm
1222	72.56	160	0.5	21.2	7.79	1209	12.8	4.02	1.78	–	
1235	72.71	320	1	21.3	7.63	1278	-41.6	1.27	6.69	–	
1247	72.74	480	1.5	21.3	7.55	1407	-42.7	1.15	1.54	–	
1259	72.76	640	2	21.2	7.55	1402	-43.2	1.21	3.61	–	
1312	72.81	800	2.5	21.4	7.54	1394	-43.4	1.18	1.54	–	
1324	72.83	960	3	21.4	7.53	1395	-42.9	1.16	1.95	–	
1325	NM	973	3.0	——		End Purge			——	–	

SAMPLE COLLECTION SAMPLE TIME 1325

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	2	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-36_1.5SV collected @ 12.50

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/12/19 **TASK:** 532.30 **WELL ID:** MW-39

Time 1419 Static DTW (ft below reference point)	6.88	screen SV ~~Casing~~ Volume (~~CV~~) (gallons) 271 SV 3 ~~CV~~ (gallons) 813	Weather Conditions	Initials: NES/DJS
Casing Total Depth (ft below reference point)	101.2	Purging Device ded pump Sampling Device NO pipe/tub	Time 1426 Temp. 6s	Begin Purge 1429 End Purge 1509
pump to screen Water Column (feet)	45.2	Pump: Depth (ft brp) 56 Type grundfos Voltage 240 HP	Skies daily	Gallons Purged 871 CVs Purged 3.2
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast fast	Wind (mph) Ø From	DTW (ft brp) 82.40 Time 1506

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1429	66.88	0	0			Begin	Purge				Q≈22gpm
1435	82.21	136	0.5	21.1	8.25	488.5	-221.3	4.96	1.50	-	
1441	82.24	271	1	21.4	8.43	436.8	-204.6	1.02	1.38	-	
1447	82.36	407	1.5	21.7	8.40	432.4	-157.4	1.03	1.34	-	
1453	82.33	542	2	21.8	8.34	439.5	-124.9	0.96	0.89	-	
1459	82.38	678	2.5	21.8	8.32	436.2	-123.5	6.94	1.66	-	
1506	82.40	813	3	21.8	8.32	440.7	-120.4	0.94	1.80	-	
1509	NM	~~879~~	3.23			End	Purge				

SAMPLE COLLECTION SAMPLE TIME 1505

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/13/19 TASK: 532.30 WELL ID: MW-35C

Time 0806 Static DTW (ft below reference point)	73.30	Screen ~~Casing~~ Volume (CV) (gallons) 378 3 CV (gallons) 1134	Weather Conditions Time 0805 Temp. 45
Casing Total Depth (ft below reference point)	1040	Purging Device ded pump Sampling Device ND pipe tubing	Skies cloudy
pump to screen Water Column (feet)	630	Pump: Depth (ft brp) 410 Type grundfos Voltage 240 HP —	Wind (mph) 4 From
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Initials: NES / DJC
			Begin Purge 0820 End Purge 0920
			Gallons Purged 1179 CVs Purged 3.1
			DTW (ft brp) 76.85 Time 0918

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0820	73.30	0	0	—	—	Begin	Purge	—	—	—	~~Q = 22 gpm~~ NES 2/13/19
0829	76.83	189	0.5	18.9	7.24	857	116.5	4.58	2.31	—	Q ≈ 20 gpm
0839	76.84	378	1	19.3	7.51	828	92.1	2.54	8.61	—	
0850	76.82	567	1.5	19.4	7.61	853	79.3	2.89	8.09	—	
0859	76.82	756	2	19.3	7.63	847	74.2	2.98	7.04	—	
0908	76.85	945	2.5	19.4	7.62	846	70.6	2.98	7.54	—	
0918	76.85	1134	3	19.3	7.61	852	69.5	3.00	7.12	—	
0920	NM	1179	3.1	—	—	End	Purge	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 0920

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/13/19 TASK: 532.36 WELL ID: MW-37

Time 1015 Static DTW (ft below reference point)	137.01	screen Sv Casing Volume (CV) (gallons) 180 3 CV (gallons) 540	Weather Conditions
Casing Total Depth (ft below reference point)	826	Purging Device dbl Pump Sampling Device NO DISPOSING	Time 1000 Temp. 52°F
pump to screen Water Column (feet)	300	Pump: Depth (ft brp) 820 Type grundfos Voltage 240 HP —	Skies Cloudy; rain
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) ~ From —

Initials: DJS/MES

Begin Purge 1014 End Purge 1045

Gallons Purged 693 CVs Purged 3.85

DTW (ft brp) 141.99 Time 1042

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1014	137.01	0	0	—	—	Begin Purge	—	—	—	—	Q x 21 GPM
1018	139.73	90	.5	20.1	7.69	746	70.0	10.02	4.05	—	
1022	139.78	180	1.0	21.4	7.77	499.0	-203.6	2.92	2.19	—	
1026	139.96	270	1.5	21.7	7.73	483.2	-215.7	1.65	3.01	—	
1030	139.84	360	2.0	21.9	7.74	620	-200.6	1.84	23.2	—	
1034	141.80	450	2.5	21.9	7.75	809	-169.1	1.80	5.11	—	
1038	141.94	540	3.0	21.7	7.81	816	-122.2	2.69	7.23	—	
1042	141.99	630	3.5	21.6	7.82	804	-105.7	1.83	7.64	—	* did additional reading for ORP stabilization
1045	NM	693	3.85	~	End	Purge	~			—	

SAMPLE COLLECTION SAMPLE TIME 1045

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/13/19 **TASK:** 532.30 **WELL ID:** MW-33

Time 1228 Static DTW (ft below reference point)	64.34	screen SV ~~Casing~~ Volume (~~CV~~) (gallons) 291 3 SV ~~CV~~ (gallons) 873	Weather Conditions
Casing Total Depth (ft below reference point)	1020	Purging Device QED PUMP Sampling Device 0~10 pipettors	Time 1220 Temp. 59
pump to screen Water Column (feet)	485	Pump: Depth (ft brp) 535 Type Grundfos Voltage 240 HP –	Skies cloudy, rain
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast ✓	Wind (mph) ~ From ~

Initials: DJJ/NEF

Begin Purge 1246 End Purge 1335

Gallons Purged 891 CVs Purged 3.1

DTW (ft brp) 67.88 Time 1304

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1246	64.34	0	0	~		Begin	Purge	~		–	Q ≈ 18 GPM
1254	67.~~68~~	146	0.5	19.3	7.71	720	-118.7	4.25	1.87	–	
1302	67.74	291	1.0	19.8	7.72	719	-74.7	1.48	1.17	–	
1310	67.81	437	1.5	19.4	7.75	716	-10.9	2.65	1.18	–	
1318	67.87	582	2.0	19.8	7.69	715	-17.9	1.53	0.75	–	
1326	67.~~86~~	728	2.5	19.9	7.~~87~~	717	-20.1	1.50	0.76	–	
1334	67.88	873	3.0	19.5	7.69	715	NM	NM	0.84	–	
1335	NM	891	3.1	~		End	Purge	~		–	

SAMPLE COLLECTION SAMPLE TIME 1335

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) (N) If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-33 1.5 SV Sample collected @ 1310

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2-13-19 **TASK:** 532.30 **WELL ID:** MW-32C

Time 1422 Static DTW (ft below reference point)	71.30	Screen ~~Casing~~ SV Volume (~~CV~~) (gallons) 318 SV 3 ~~CV~~ (gallons) 954	Weather Conditions: Time 1415 Temp. 53°F; Skies Cloudy; Wind (mph) ~ From ~
Casing Total Depth (ft below reference point)	1090	Purging Device DED pump Sampling Device NA Peristaltic	Initials: DJS/NT
Pump to Screen Water Column (feet)	530	Pump: Depth (ft brp) 560 Type Grundfos Voltage 240 HP -	Begin Purge 1431 End Purge 1551
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast ✓	Gallons Purged 966 CVs Purged 3.1
			DTW (ft brp) NM Time -

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1431	~~71.30 NM~~	0	0	~		Begin	Purge	~		-	Q≈12 GPM
1444	NM	159	0.5	19.7	7.96	552.7	-173.1	2.21	1.26	-	* transducer blocking water column
1458	NM	318	1.0	20.2	7.98	545.7	-151.2	1.01	0.90	-	unable to obtain WL
1511	NM	477	1.5	20.3	8.02	544.8	-92.9	1.29	3.98	-	
1524	NM	636	2.0	19.7	8.04	548.3	-90.0	1.72	2.76	-	
1537	NM	795	2.5	20.0	8.03	547.9	-77.0	0.56	1.82	-	
1550	NM	954	3.0	19.6	7.93	548.1	-91.0	2.55	5.18	-	
1551	NM	966	3.1	~	End	Purge		~		-	

SAMPLE COLLECTION SAMPLE TIME 1550

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/14/19 72.86 TASK: 532.30 WELL ID: MW-32A

Time 0832 Static DTW (ft below reference point)	~~72.86~~	screen ~~Casing~~ Volume (~~GV~~) (gallons) 207	SV 3 ~~GV~~ (gallons) 621
Casing Total Depth (ft below reference point)	905	Purging Device ded pump	Sampling Device ND if present
pump to screen Water Column (feet)	345	Pump: Depth (ft brp) 560 Type grundfos	Voltage 240 HP —
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____	Fast X

Weather Conditions: Time 0930 Temp. 60; Skies rain; Wind (mph) — From —

Initials: NES/PJS; Begin Purge 855 End Purge 0920; Gallons Purged 660 CVs Purged 3.2; DTW (ft brp) 74.73 Time 0917

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0831	72.86	0	0			Begin Purge				—	Q ≈ 13 gpm
0842	74.34	104	0.5	19.8	7.52	1212	51.0	4.72	1.67	—	
0849	74.63	207	1.0	20.0	7.56	1215	45.8	3.46	1.82	—	
0856	74.70	311	1.5	20.2	7.56	1212	33.5	2.96	2.38	—	
0903	74.71	411	2.0	20.1	7.58	1208	35.7	3.31	1.96	—	
0910	74.72	518	2.5	20.2	7.60	1206	36.3	4.14	1.98	—	
0917	74.73	621	3.0	20.1	7.52	1209	33.1	3.04	1.45	—	
0920	NM	660	3.2			End Purge				—	

SAMPLE COLLECTION SAMPLE TIME 0920

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/14/19 **TASK:** 532.30 **WELL ID:** MW-32B

Time 0945 Static DTW (ft below reference point)	72.66	screen Sv Casing Volume (CV) (gallons) 264 3 CV (gallons) 791		Weather Conditions	Initials: DJS/NES
Casing Total Depth (ft below reference point)	994	Purging Device decpump Sampling Device >100 P.peristaltic		Time 0945 Temp. 60	Begin Purge 0951 End Purge 1102
pump to screen Water Column (feet)	436 43	Pump: Depth (ft brp) 360 Type ground for Voltage 240 HP –		Skies rain	Gallons Purged 845 CVs Purged 3.2
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast +		Wind (mph) – From –	DTW (ft brp) 94.31 Time 1057

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0951	72.66	0	0	~	Begin purge			~		–	Q ≈ 12 GPM
1002	93.31	132	0.5	20.2	7.73	1236	-142.0	3.70	2.57	–	
1013	93.58	264	1.0	20.7	7.87	1078	-92.7	1.70	2.34	–	
1024	93.65	396	1.5	20.4	7.83	1152	-76.6	1.50	1.56	–	
1035	94.04	528	2.0	20.5	7.82	1171	-73.5	2.66	1.38	–	
1046	94.06	660	2.5	20.8	7.84	1181	~~-74.1~~ -58.4	2.52	1.32	–	
1057	94.31	791	3.0	20.5	7.83	1186	-73.6	1.54	1.51	–	
1102	NM	845	3.2	~	End purge			~		–	

SAMPLE COLLECTION SAMPLE TIME 1100

ANALYSIS	QUANTITY	TYPE
8260B VOCs	12	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	4	1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-32B-1.5-21 collected @ 1025
MW-32B collected @ 1100
MW-3200B collected @ 1101
MW-32B Splits collected @ 1100

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/14/19 TASK: 532.30 WELL ID: MW-27

Time 1308 Static DTW (ft below reference point) 116.29
Casing Total Depth (ft below reference point) 515
pump to screen Water Column (feet) 45
Casing Capacity (Diameter 4 ") (gallons per foot) 0.66

screen SV Casing Volume (CV) (gallons) 29.7 3 SV CV (gallons) 89.1
Purging Device Geo pump Sampling Device 0-10 Pipette
Pump: Depth (ft brp) 470 Type grundfos Voltage 240 HP ~~3/4~~ 4

Weather Conditions
Time 1300 Temp. 60
Skies rain
Wind (mph) — From —

Initials: DJS/NFS
Begin Purge 1312 End Purge 1345
Gallons Purged 100 CVs Purged 3.4
DTW (ft brp) 120.21 Time 1341

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1312	116.29	0	0	~	~	Begin	Purge	~		—	Q = 6 gpm
1315	120.01	14.85	0.5	20.4	7.79	957	-248.4	3.63	3.48	—	
1318	120.07	29.7	1.0	20.6	7.64	1003	-161.7	2.61	3.81	—	
1321	120.08	44.55	1.5	20.5	7.56	1006	-114.6	1.93	11.31	—	
1324	120.09	59.4	2.0	20.8	7.54	1004	-95.8	2.24	3.25	—	
1338	119.92	74.25	2.5	20.4	7.54	1006	-90.9	1.70	3.51	—	* experienced generator problems
1341	120.21	89.1	3.0	20.1	7.55	1011	-85.6	1.00	3.56	—	
1345	NM	100	3.4	~	~	End	Purge	~		—	

SAMPLE COLLECTION SAMPLE TIME 1345

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/14/19 TASK: 532.30 WELL ID: MW-41

Time 1406 Static DTW (ft below reference point)	137.87	Screen ~~Casing~~ Volume (~~CV~~) (gallons) 5V 39 3 ~~CV~~ (gallons) 5V 118	Weather Conditions
Casing Total Depth (ft below reference point)	425	Purging Device ded pump Sampling Device 10460 pipe stinger	Time 1405 Temp. 60
pump to screen Water Column (feet)	65	Pump: Depth (ft brp) 360 Type Grundfos Voltage 240 HP	Skies Cloudy
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast x	Wind (mph) 5 From

Initials: NES/DJS

Begin Purge 1416 End Purge 1440

Gallons Purged 142 CVs Purged 3.6

DTW (ft brp) 143.8 Time 1436

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1416	137.87	0	0			Begin Purge					Q≈6 gpm
1419	143.64	19	0.5	20.2	6.96	2583	-17.3	4.21	7.85	-	
1423	143.71	39	1	20.8	7.06	2613	-10.1	4.25	38.5	-	
1426	143.81	58	1.5	20.9	7.05	2613	-12.4	3.52	32.9	-	
1429	143.81	78	2	20.4	7.05	2613	-11.2	3.56	17.4	-	
1432	143.82	97	2.5	20.8	7.09	2600	-12.6	3.69	9.26	-	
1436	143.8	118	3	20.8	7.12	2606	-12.7	3.72	5.81	-	
1440	NM	142	3.6			End Purge				-	

SAMPLE COLLECTION SAMPLE TIME 1440

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/6/18 TASK: 532.30 WELL ID: EW-01

Time 1352 Static DTW (ft below reference point)	126.91	Casing Volume (CV) (gallons) 40.3 3 CV (gallons) 121	Weather Conditions	Initials: AMD/CVD/RHH/DJS
Casing Total Depth (ft below reference point)	188	Purging Device ded pump Sampling Device ded sample	Time 1354 Temp. 70	Begin Purge 1355 End Purge 1406
Water Column (feet)	61.09	Pump: Depth (ft brp) - Type - Voltage - HP -	Skies clear	Gallons Purged 132 CVs Purged 3.2
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) - From -	DTW (ft brp) 127.40 Time 1405

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1355	126.91	0	0			Begin Purge					
1356	127.39	12	0.30	24.5	7.22	1415	186.7	5.84	4.96	-	Q=12 gpm
1358	127.41	36	0.89	22.5	7.28	1312	157.7	6.44	2.02	-	
1400	127.46	70	1.73	22.0	7.33	1294	143.0	6.75	1.31	-	
1402	127.47	84	2.08	21.8	7.34	1287	138.6	6.77	0.76	-	
1404	127.48	108	2.67	21.8	7.30	1289	140.6	6.78	0.79	-	
1405	127.48	120	3.0	21.8	7.30	1288	141.6	6.78	0.63	-	COLLECT SAMPLE
1406	NM	132	3.2			End Purge					

SAMPLE COLLECTION SAMPLE TIME 1405

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/22/18 TASK: 532.30 WELL ID: EW-02

Time – Static DTW (ft below reference point)	NM	Casing Volume (CV) (gallons) –	3 CV (gallons) –	Weather Conditions	Initials: AMD/AMJ
Casing Total Depth (ft below reference point)	460	Purging Device –	Sampling Device Sample port	Time 1540 Temp. 85	Begin Purge – End Purge –
Water Column (feet)	–	Pump: Depth (ft brp) – Type – Voltage – HP –		Skies clear	Gallons Purged – CVs Purged –
Casing Capacity (Diameter 8 ") (gallons per foot)	2.6	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) – From –	DTW (ft brp) – Time –

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1545	NM	–	–	25.84	7.77	1.036	83.1	4.07	9.91	–	Q ≈ 34 gpm

SAMPLE COLLECTION SAMPLE TIME 1545

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

EW-02 is an active system extraction well. Well pump was on during sample collection.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: ~~2/20/18~~ 3/1/18 TASK: 532.30 WELL ID: MW-06

Time 1330 9:30 Static DTW (ft below reference point)	149.00	Casing Volume (CV) (gallons) 6.51	3 CV (gallons) 19.5	Weather Conditions	Initials: AMD/CVD
Casing Total Depth (ft below reference point)	188.92	Purging Device Grundfos	Sampling Device ded. tubing	Time 1330 Temp. 70	Begin Purge 1343 End Purge 14:12
Water Column (feet)	39.92	Pump: Depth (ft brp) 186 Type MP1	Voltage 115 HP 0.5	Skies clear	Gallons Purged 19 CVs Purged 2.9
Casing Capacity (Diameter 2 ") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 3 From W	DTW (ft brp) 166.95 Time 14:09

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
13:43	149.00	~~0~~	~~0~~				PUMP ON				
13:45	NM	2.5	0.38	21.07	9.13	1.52	177	7.18	158	299	Q = 0.75
13:48	164.64	5	0.77	22.38	8.33	1.51	170	5.13	140	299	
13:50	165.81	~~8~~ 7	1.08	22.60	7.70	1.51	165	5.01	25.8	299	
13:57	166.73	~~12~~ 10	1.54	23.09	7.49	1.53	149	4.92	11.6	299	
14:02	166.87	14	2.15	23.46	7.60	1.55	141	~~7.~~ 5.09	6.7	299	
14:06	166.90	17	2.61	23.54	7.53	1.55	137	5.31	4.5	299	
14:09	166.95	19	2.91	23.59	7.49	1.55	143	5.34	4.1	299	
14:11	NM	21	3.23				PUMP OFF				

SAMPLE COLLECTION SAMPLE TIME 14:16

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

VOCs only. Installed new tubing into well

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11-07-18 **TASK:** 532.30 **WELL ID:** MW-8

Time 1250 Static DTW (ft below reference point)	133.26	Casing Volume (CV) (gallons) 5.4	3 CV (gallons) 16.2	Weather Conditions	Initials: OJT, AMD
Casing Total Depth (ft below reference point)	166.10	Purging Device Grundfos	Sampling Device disp tubing	Time 1249 Temp. 70°F	Begin Purge 1322 End Purge 1340
Water Column (feet)	32.84	Pump: Depth (ft brp) 163 Type MP1	Voltage 115 HP 0.5	Skies Cloudy	Gallons Purged 21.5 CVs Purged 3.98
Casing Capacity (Diameter 2") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow ___	Fast ✓	Wind (mph) — From —	DTW (ft brp) 134.87 Time 1340

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1322	133.26	0	0	—	Begin	Purge	—			277	Q ≈ 1.25 ~~0.8~~ gpm
1326	134.69	3.75	0.69	22.2	7.10	2065	55.3	2.61	5.52	277	
1328	134.73	7.00	1.29	22.7	7.08	2159	52.0	4.02	5.15	277	
1330	134.77	9.00	1.66	22.9	7.08	2163	51.4	3.90	2.58	277	
1332	134.80	13.00	2.41	23.0	7.11	2178	54.2	3.98	2.04	277	
1335	134.86	15.25	2.82	23.0	7.11	2182	55.2	3.88	1.27	277	
1340	134.87	21.50	3.98	23.1	7.23	2195	58.6	4.34	1.07	277	
1340	NM	21.50	3.98	—	End	Purge	—				Collected Samples org, dup, SPLIT org: MW-8 @1340; dup: MW-8000 @1345; SPLIT MW-8 @1340

SAMPLE COLLECTION SAMPLE TIME 1340

ANALYSIS	QUANTITY	TYPE
8260B VOCs	12	40 ml VOA
8270 SIM 1,4 dioxane	~~3~~ 4	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Rinsate Blank collected: RB-110718 @ 1300
dup MW-8000 @ 1345; SPLIT MW-8 @ 1340
org: MW-8 @ 1340

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/23/18 TASK: 532.30 WELL ID: MW-09

Time 0943 Static DTW (ft below reference point)	155.08	Casing Volume (CV) (gallons) 5.85 3 CV (gallons) 17.6	Weather Conditions	Initials: AMD / AMJ
Casing Total Depth (ft below reference point)	191	Purging Device QuikBailer Sampling Device bailer	Time 0943 Temp. 80	Begin Purge 948 End Purge 1118
Water Column (feet)	35.92	Pump: Depth (ft brp) - Type - Voltage - HP -	Skies clear	Gallons Purged 16 CVs Purged 2.74
Casing Capacity (Diameter 2") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow X Fast	Wind (mph) - From -	DTW (ft brp) 155.10 Time 1117

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
948	155.08	0	0			BEGIN BAILING					
1005	155.14	3	0.51	25.00	7.24	2.433	56.6	3.48	30.6	-	
1030	NM	7	1.20	24.23	7.17	2.417	6.2	4.53	43.6	-	
1045	NM	10	1.71	23.42	7.31	2.397	20.3	4.62	33.2	-	
1105	NM	14	2.39	24.26	7.22	2.415	-2.4	5.04	88.1	-	
1117	155.10	16	2.74	23.59	7.15	2.386	-9.2	4.57	129	-	
1118	Collect samples										

SAMPLE COLLECTION SAMPLE TIME 1118

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/27/18 TASK: 532.30 WELL ID: MW-13

Time 920 Static DTW (ft below reference point)	113.79	Casing Volume (CV) (gallons) 7.7	3 CV (gallons) 23	Weather Conditions	Initials: TJF
Casing Total Depth (ft below reference point)	159	Purging Device Grundfos	Sampling Device del tubing	Time 9:20 Temp. 65	Begin Purge 943 End Purge 1001
Water Column (feet)	45.2	Pump: Depth (ft brp) 157 Type	Voltage 115 HP 0.5	Skies Partly cloudy	Gallons Purged 27 CVs Purged 3.5
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow	Fast ✓	Wind (mph) 0-2 From Var.	DTW (ft brp) 141.20 Time 1001

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
943	113.79	0	0	—	Begin Purge			—	—	281	Q ≅ 1.5 gpm
945	141.23	3	0.4	22.0	7.24	1366	~~6.52~~ 211.6	6.52	28.4	281	
948	141.28	7.5	1.0	22.4	7.09	1329	203.5	7.09	5.5	281	
951	141.21	12	1.6	22.6	7.20	1318	198.8	6.97	2.6	281	
953	141.25	15	1.9	22.6	7.22	1316	195.3	6.98	2.7	281	
956	141.21	19.5	2.5	22.6	7.21	1316	193.1	6.98	2.8	281	
959	141.20	24	3.1	22.6	7.21	1320	190.1	7.00	1.8	281	
1001	141.20	27	3.5	—	—	end purge	—	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 1000

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/21/18 TASK: 532.30 WELL ID: MW-15

Time 1030 Static DTW (ft below reference point)	127.35	Casing Volume (CV) (gallons) 7.1	3 CV (gallons) 21.3	Weather Conditions	Initials: AMD/AMJ
Casing Total Depth (ft below reference point)	170.8	Purging Device grundfos	Sampling Device ded tubing	Time 1040 Temp. 80	Begin Purge 1050 End Purge 1122
Water Column (feet)	43.45	Pump: Depth (ft brp) 167 Type MP1	Voltage 115 HP 0.5	Skies cloudy	Gallons Purged 24 CVs Purged 3.1
Casing Capacity (Diameter 2 ") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) - From -	DTW (ft brp) 127.98 Time 1120

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µ-S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1050	127.35	0	0	PUMP	ON						
1053	127.82	2.25	0.32	24.00	7.47	1.207	-6.1	7.15	10.2	340	Q = 0.75 gpm
1057	127.83	5.25	0.73	24.02	7.45	1.213	-5.7	7.13	21.7	340	
1101	127.86	8.25	1.16	24.11	7.42	1.227	-4.2	7.22	14.9	340	
1105	127.86	11.25	1.58	24.25	7.40	1.261	-1.9	7.00	10.68	340	
1109	127.86	14.25	2.0	24.32	7.39	1.250	0.4	6.69	7.6	340	
1114	127.88	18	2.53	24.37	7.38	1.253	1.9	6.81	6.49	340	
1119	127.89	21.8	3.06	24.44	7.38	1.254	3.8	6.64	5.52	340	
1120	COLLECT SAMPLE										
1122	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1120

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/22/18 TASK: 532.30 WELL ID: MW-16

Time 841 Static DTW (ft below reference point)	124.96	Casing Volume (CV) (gallons) 35	3 CV (gallons) 105	Weather Conditions	Initials: AMD/AMJ
Casing Total Depth (ft below reference point)	178.50	Purging Device grundfos	Sampling Device ded tubing	Time 840 Temp. 75	Begin Purge 854 End Purge 0943
Water Column (feet)	53.54	Pump: Depth (ft brp) 176.5 Type MPI	Voltage 115 HP 0.5	Skies clear	Gallons Purged 117.5 CVs Purged 3.3
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____	Fast X	Wind (mph) — From —	DTW (ft brp) 128.87 Time 0938

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0854	124.96	0	0	—	—	PUMP ON	—	—	—	—	
0901	128.64	17.5	0.5	22.81	7.40	1.006	89.3	4.82	3.12	329	Q = 2.5 gpm
0908	128.77	35	1.0	22.83	7.28	0.951	67.4	4.09	2.43	329	
0915	128.80	52.5	1.5	22.84	7.33	1.016	54.3	4.15	2.05	329	
0922	128.83	70	2.0	22.84	7.32	1.027	48.1	4.51	1.96	329	
0929	128.85	87.5	2.5	22.86	7.32	1.033	42.6	4.62	1.56	329	
0938	128.87	105	3.0	22.86	7.34	1.040	35.0	4.35	1.49	329	
0940	NM	110	3.1	COLLECT	SAMPLE						
0943	NM	117.5	3.3	PUMP	OFF						

SAMPLE COLLECTION SAMPLE TIME 0940

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	3	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MS/MSD collected

RB-082218 collected @ 1005

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/21/19 TASK: 532.30 WELL ID: MW-18

Time 1413 Static DTW (ft below reference point)	130.43	Casing Volume (CV) (gallons) 42 3 CV (gallons) 126	Weather Conditions	Initials: AMD/AMJ
Casing Total Depth (ft below reference point)	194.10	Purging Device Grundfos Sampling Device ded. tubing	Time 1440 Temp. 82	Begin Purge 1426 End Purge 1531
Water Column (feet)	63.67	Pump: Depth (ft brp) 192 Type MP1 Voltage 115 HP 0.5	Skies clear	Gallons Purged 133 CVs Purged 3.1
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) ____ From ____	DTW (ft brp) 152.81 Time 1529

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1426	~~pump start~~	~~pump start~~	0	pump start							DTW = 137.05 Q = 2 GPM
1436	146.15	20	0.48	22.85	6.98	0.987	1.3	4.00	~~5.5~~ 3.02	328	
1446	151.99	40	0.95	22.83	7.11	1.013	-11.2	2.74	3.58	328	
1457	152.50	62	1.48	22.87	7.25	1.091	-15.1	4.03	3.09	328	
1508	152.77	84	2.00	22.85	7.32	1.125	-17.9	4.72	1.89	328	
1518	152.74	104	2.48	22.87	7.31	1.136	-16.3	5.01	1.75	328	
1529	152.81	126	3.0	22.90	7.33	1.141	-17.0	5.07	1.70	328	
1530	NM	131	3.1	COLLECT SAMPLE							
1531	NM	133	3.1	PUMP	OFF						

SAMPLE COLLECTION SAMPLE TIME 1530

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/21/18 TASK: 532.30 WELL ID: MW-20

Time 1235 Static DTW (ft below reference point)	151.63	Casing Volume (CV) (gallons) 31	3 CV (gallons) 93	Weather Conditions	Initials: AMD/AMJ/TJE
Casing Total Depth (ft below reference point)	198.20	Purging Device grundfos	Sampling Device	Time 1242 Temp. 80	Begin Purge 1300 End Purge 1336
Water Column (feet)	46.57	Pump: Depth (ft brp) 196 Type MP1	Voltage 115 HP 0.5	Skies clear	Gallons Purged 110 CVs Purged 3.5
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) — From —	DTW (ft brp) 162.72 Time 1331

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1300	151.63	0	0				PUMP ON				Q ≈ 3 gpm
1305	158.80	15	0.48	25.89	7.83	1.240	5.8	5.09	NM	364	
1310	159.90	30	0.94	28.35	7.83	1.248	4.4	4.99	30	364	
1316	161.52	48	1.55	24.68	7.87	1.167	-14.3	6.06	40	364	
1321	161.92	63	2.03	23.77	7.83	1.072	-15.8	10.61	27	364	
1326	162.30	78	2.52	23.52	7.84	1.056	-31.5	5.84	14.35	364	
1331	162.72	93	3.00	23.48	7.75	1.056	-30.7	5.78	11.2	364	
1332	Collect Samples										
1336	Pump off										

SAMPLE COLLECTION SAMPLE TIME 1332

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane	3	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-2000 (FD) collected @ 1334

MW-20 (split) collected @ 1332

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/6/18 TASK: 532.30 WELL ID: MW-21

Time 1415 Static DTW (ft below reference point)	118.22	Casing Volume (CV) (gallons) 75	3 CV (gallons) 225	Weather Conditions	Initials: AMD/CVO/RHH/DJS
Casing Total Depth (ft below reference point)	232	Purging Device ded pump	Sampling Device Sample pert	Time 1415 Temp. 70	Begin Purge 1417 End Purge 1427
Water Column (feet)	113.78	Pump: Depth (ft brp) – Type – Voltage – HP –		Skies clear	Gallons Purged 230 CVs Purged 3.1
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) – From –	DTW (ft brp) 135.39 Time 1427

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1417	118.22	0	0			Begin Purge					
1419	132.11	50	0.67	22.5	7.28	2054	-11	1.87	5.75	–	Q = 25 gpm
1420	134.39	75	1.0	22.3	7.29	2058	-22	2.30	1.56	–	
1421	134.82	100	1.33	22.4	7.33	2054	-20.1	3.12	2.22	–	
1423	135.07	150	2.0	22.8	7.28	2052	-19.6	3.06	1.81	–	
1425	135.30	200	2.67	22.2	7.25	2046	-15.6	3.19	0.57	–	
1426	135.39	225	3.0	22.4	7.27	2039	-14.6	3.15	0.71	–	COLLECT SAMPLE
1427	NM	230	3.1			End	Purge				

SAMPLE COLLECTION SAMPLE TIME 1426

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	3	1 L Amber

DUPLICATES SPLITS BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 3/1/18 TASK: 532.30 WELL ID: MW-24

Time 16:15 Static DTW (ft below reference point)	110.05	Casing Volume (CV) (gallons) 145 3 CV (gallons) 435	Weather Conditions	Initials: AMD/CVD
Casing Total Depth (ft below reference point)	330	Purging Device ded pump Sampling Device ND pipe stand	Time 1615 Temp. 60	Begin Purge 1619 End Purge 1657
Water Column (feet)	219.95	Pump: Depth (ft brp) ___ Type grundfos Voltage 240 HP ___	Skies clear	Gallons Purged 456 CVs Purged 3.14
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ___ Fast X	Wind (mph) — From —	DTW (ft brp) 119.21 Time 16:57

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
16:19	110.05	0	0	—	—	PUMP	ON	—	—	—	
16:23	118.67	48	0.44	21.01	9.55	0.406	-125	6.72	7.0	-	Q = 12 gpm
16:31	118.91	144	1.0	21.09	8.32	0.439	-155	0.25	0.0	-	
16:37	119.01	217.5	1.5	21.09	8.20	0.440	-150	0.18	0.0	-	
16:43	119.16	290	2.0	21.08	8.15	0.440	-148	0.13	0.0	-	
16:49	119.19	360	2.5	21.06	8.08	0.440	-145	0.10	0.0	-	
16:55	119.20	432	3.0	21.05	8.04	0.440	-144	0.10	0.0	-	
16:57	119.21	456	3.14	—	—	PUMP	OFF	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 16:55

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11-07-18 TASK: 532.30 WELL ID: MW-26C

Time 0950 / ~~124.75~~ Static DTW (ft below reference point)	124.75	Casing Volume (CV) (gallons) 62	3 CV (gallons) 186	Weather Conditions	Initials: DJS, AMD
Casing Total Depth (ft below reference point)	499	Purging Device grundfos	Sampling Device ded. tubing	Time 1000 Temp. 75°F	Begin Purge 0950 End Purge 1124
Water Column (feet)	374.25	Pump: Depth (ft brp) 200 Type MP1	Voltage 115 HP 0.5	Skies cloudy	Gallons Purged 187 CVs Purged 3.01
Casing Capacity (Diameter 2 ") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow ___	Fast ✓	Wind (mph) ~ From ~	DTW (ft brp) 125.41 Time 1123

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (uS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0950	124.75	0	0	~	—	Pump		on	~	288	
1006	125.38	32	0.52	22.5	8.96	473.0	-214.5	0.74	3.69	289	
1022	125.41	64	1.03	22.2	8.08	659.0	-237.1	0.65	3.61	289	
1038	125.48	96	1.55	22.3	7.74	794.0	-181.0	0.72	1.34	289	
1054	125.48	128	2.06	22.4	7.71	798.0	-171.6	0.66	1.29	289	
1110	125.41	160	2.60	22.3	7.69	799.0	-169.7	0.69	1.25	288	
1123	125.41	186	3.00	22.3	7.68	799.0	-168.7	0.67	1.12	289	
1124	NM	187	3.01	—	End	Purge		—	—	—	

SAMPLE COLLECTION SAMPLE TIME 1123

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Sampled: MW-26C @ 1123

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 3/2/18 TASK: 532.30 WELL ID: MW-27

Time 8:10 Static DTW (ft below reference point)	110.33	Casing Volume (CV) (gallons) 5V 29.7 3CV (gallons) 5V 89.1	Weather Conditions: Time 810 Temp. 60
Casing Total Depth (ft below reference point)	515	Purging Device ded pump Sampling Device ND piperstand	Skies light rain
screen Water Column (feet)	45	Pump: Depth (ft brp) Type Grundfos Voltage 240 HP	Wind (mph) 0 From —
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Initials: AMD/CVD; Begin Purge 8:20 End Purge 8:37; Gallons Purged 102 CVs Purged 3.43; DTW (ft brp) 114.31 Time 8:35

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	...FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
8:20	110.33	Ø	Ø	PUMP ON						1	
8:24	114.34	24	0.81	19.82	7.70	0.722	67	7.03	11.0	-	Q = 6 gpm
8:26	114.28	36	1.21	20.35	7.38	0.984	65	6.91	36.1	-	
8:28	114.30	48	1.62	20.53	7.61	0.999	73	6.87	38.2	-	
8:30	114.32	60	2.0	20.53	7.60	0.997	76	6.81	22.5	-	
8:33	114.30	78	2.62	20.56	7.58	0.992	81	6.71	10.2	-	
8:35	114.31	90	3.0	20.58	7.58	0.988	83	6.40	9.0	-	
8:37	NM	102	3.43	PUMP OFF						1	

SAMPLE COLLECTION SAMPLE TIME 8:35

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/07/2018 TASK: 532.30 WELL ID: MW-28

Time 1125 Static DTW (ft below reference point)	125.32	Screen Casing Volume (CV) (gallons) ~~115~~ 29.7 5V 3 CV (gallons) 89.1	Weather Conditions Time 1030 Temp. 75	Initials: NEJ/AMD
Casing Total Depth (ft below reference point)	375	Purging Device ded pump Sampling Device ND pipettes	Skies cloudy	Begin Purge 1034 End Purge 1046
pump to screen Water Column (feet) 45	~~247~~	Pump: Depth (ft brp) 330 Type grundfos Voltage 240 HP 0.5		Gallons Purged 110 CVs Purged 3.7
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) — From —	DTW (ft brp) 138.41 Time 3.7

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	FIELD PARAMETERS Temp. (°)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1034	128.32	0	0	—	—	Begin	Purge	—	—	—	Pump on
1035	138.02	~~14.8~~ 14.9	0.5	21.7	7.51	1.07	60.7	1.36	0.93	—	
1037	138.17	29.7	1	21.6	7.50	1.08	82.3	3.91	0.56	—	
1038	138.20	44.6	1.5	21.6	7.49	1.10	93.4	4.30	0.42	—	
1040	138.29	59.4	2	21.6	7.50	1.10	100.6	4.36	0.38	—	
1042	138.34	~~74.2~~ 74.3	2.5	21.7	7.50	1.10	103.4	4.39	0.40	—	
1043	138.41	89.1	3	21.7	7.50	1.10	104.8	4.37	0.29	—	
1046	NM	110	3.7	—	—	End	Purge	—	—	—	Pump off

SAMPLE COLLECTION SAMPLE TIME ____

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane	3	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-28 MS/MSD @ 1045

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/23/18 TASK: 532.30 WELL ID: MW-29

Time 1330 Static DTW (ft below reference point)	162.63	Casing Volume (CV) (gallons) – 3 CV (gallons) –	Weather Conditions	Initials: AMD/AMJ
Casing Total Depth (ft below reference point)	240	Purging Device – Sampling Device sample port	Time 1330 Temp. 85	Begin Purge – End Purge –
Water Column (feet)	77.37	Pump: Depth (ft brp) – Type – Voltage – HP –	Skies clear	Gallons Purged – CVs Purged –
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) – From –	DTW (ft brp) – Time –

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1330	162.63	–	–	26.87	7.41	1.347	3.9	6.33	24.5	–	Q≈ 6 gpm

SAMPLE COLLECTION SAMPLE TIME 1330

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-29 is an active system extraction well. Well pump was on during sample collection.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/7/18 TASK: 532.30 WELL ID: MW-30A

Time 1235 Static DTW (ft below reference point)	117.73	Screen ~~Casing~~ Volume (CV) (gallons) 17.6 3 SV 3 CV (gallons) 52.8	Weather Conditions	Initials: NEJ
Casing Total Depth (ft below reference point)	564	Purging Device ded pump Sampling Device 0-10 Pipe Stand	Time 1240 Temp. 70	Begin Purge 1242 End Purge 1253
Screen Water Column (feet)	44	Pump: Depth (ft brp) 520 Type grundfos Voltage 240 HP 0.5	Skies cloudy	Gallons Purged 64 CVs Purged 3.6
Casing Capacity (Diameter 3 ") (gallons per foot)	0.4	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) — From —	DTW (ft brp) 119.79 Time 1253

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1242	117.73	0	0	—	—	Begin	Purge	—	—	—	Pump on
1244	119.70	~~0.8~~	0.5	21.7	7.72	0.78	104.5	2.88	0.79	—	
1245	119.76	17.6	1	21.4	7.71	0.78	104.9	1.42	0.56	—	
1247	119.78	26.4	1.5	21.4	7.69	0.78	105.4	0.89	0.43	—	
1248	119.78	35.2	2	21.5	7.66	0.79	104.6	0.79	0.18	—	
1249	119.79	44	2.5	21.6	7.55	0.78	103.9	0.73	0.24	—	
1251	119.79	52.8	3	21.6	7.50	0.78	103.8	0.72	0.17	—	
1253	NM	~~62.6~~ 63.9	3.6	—	—	End	Purge	—	—	—	Pump off

SAMPLE COLLECTION SAMPLE TIME 1252

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/07/18 TASK: 532.30 WELL ID: MW-30B

Time 1320 Static OTW (ft below reference point)	114.41	Screen 5V Casing Volume (CV) (gallons) 40	3 CV (gallons) 120	Weather Conditions	Initials: DJS/NES
Casing Total Depth (ft below reference point)	619	Purging Device ded. pump	Sampling Device >100 pipe stand	Time 1315 Temp. 70	Begin Purge 1323 End Purge 1349
pump to screen Water Column (feet)	99	Pump: Depth (ft brp) 520 Type grundfos	Voltage 240 HP	Skies cloudy	Gallons Purged 132.3 CVs Purged 3.3
Casing Capacity (Diameter 3 ") (gallons per foot)	0.4	Monitor Well Recharge Rate: Slow	Fast ✓	Wind (mph) ~ From —	DTW (ft brp) ~~114.41~~ Time ~~1320~~

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
13.23	114.41	0	0	~	Begin purge ~					-	Q ≈ 5 GPM
13.27	134.40	20	0.5	21.3	7.40	1.45	-86.6	0.25	0.77	-	
13.31	136.86	40	1.0	21.5	7.23	1.77	-70.4	2.45	0.92	-	
13.34	138.24	60	1.5	21.6	7.29	1.57	-73.2	3.06	5.42	-	
13.38	139.24	80	2.0	21.6	7.37	2.32	-77.5	2.30	8.04	-	
13.42	137.78	100	2.5	21.7	7.38	1.37	-77.8	2.17	6.24	-	
13.46	140.28	120	3.0	21.7	7.38	1.37	-77.3	2.20	1.70	-	
13.49	NM	132.3		—	End purge ~						

SAMPLE COLLECTION SAMPLE TIME 1348

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/30/18 TASK: 532.30 WELL ID: MW-31

Time 0940 Static DTW (ft below reference point)	106.56	Casing Volume (CV) (gallons) 81 3 CV (gallons) 243	Weather Conditions
Casing Total Depth (ft below reference point)	996	Purging Device ded pump Sampling Device 10-100 pipe stand	Time 0940 Temp. 75
pump to screen Water Column (feet)	54	Pump: Depth (ft brp) 942 Type grundfos Voltage 240 HP	Skies cloudy
Casing Capacity (Diameter 6 ") (gallons per foot)	1.5	Monitor Well Recharge Rate: Slow ____ Fast Y	Wind (mph) ~ From ~

Initials: AMD
Begin Purge 0949 End Purge 1013
Gallons Purged 264 CVs Purged 3.25
DTW (ft brp) 107.11 Time 1013

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0949	106.56	0	0	—	—	PUMP	ON	—	—	—	
0953	110.75	40	0.5	20.8	7.61	1121	31.6	0.54	6.59	-	Q ≈ 11 gpm
0957	110.80	80	1.0	21.2	7.50	1874	6.3	0.76	31.8	-	
1000	110.80	120	1.5	21.2	7.41	1796	-5.0	0.84	24.4	-	
1003	110.81	160	2.0	21.2	7.41	1670	-17.6	0.85	19.3	-	
1007	110.82	200	2.5	21.3	7.42	1669	-20.3	0.85	8.27	-	
1011	110.82	243	3.0	21.3	7.43	1667	-21.9	0.86	6.63	-	
1013	107.11	264	3.25	—	—	PUMP	OFF	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 1011

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 08/21/18 TASK: 532.30 WELL ID: MW-32A

Time 0946 Static DTW (ft below reference point)	79.20	Screen SV Casing Volume (~~SV~~) (gallons) 207 3 SV (gallons) 621	Weather Conditions Time 0940 Temp. 78	Initials: TJE/NES/AVS
Casing Total Depth (ft below reference point)	905	Purging Device Dedi pump Sampling Device ND ~~Peri~~ stand	Skies cloudy	Begin Purge 0950 End Purge 10:40
pump to screen Water Column (feet)	345	Pump: Depth (ft brp) 560 Type Grundfos Voltage 240 HP		Gallons Purged 660 CVs Purged 3.18
Casing Capacity (Diameter 4") (gallons per foot)	0.61	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) – From –	DTW (ft brp) 81.02 Time 1036

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0950	79.20	0	0	—	—	Begin Purge	—	—	—	—	Q ≈ 13 gpm
0957	80.92	104	0.5 ~~104~~	20.91	7.61	967	-61.8	2.34	6.12	–	
1005	80.96	207	1 ~~208~~	21.08	7.62	975	-49.1	1.79	1.65	–	
1013	81.01	311	1.5 ~~312~~	21.13	7.64	980	-40.7	1.80	0.55	–	
1021	81.01	414	2 ~~414~~ 416	21.13	7.64	980	-30.0	1.67	0.32	–	
1029	81.02	518	2.5 ~~520~~	21.13	7.63	980	-27.0	1.58	0.36	–	
1036	81.02	621	3 ~~621~~	21.13	7.62	979	-22.3	1.56	0.40	–	
1040		660									

SAMPLE COLLECTION SAMPLE TIME _____

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/7/18 TASK: 532.30 WELL ID: MW-32B

Time 0723 Static DTW (ft below reference point)	81.81	Screen Casing Volume (CV) (gallons) 5V 264 3 CV (gallons) 5V 791	Weather Conditions	Initials: AMD/DJS/NES
Casing Total Depth (ft below reference point)	999	Purging Device ded pump Sampling Device >100 pipestand	Time 0740 Temp. 70	Begin Purge 0735 End Purge 0842
Water Column (feet)	436	Pump: Depth (ft brp) 560 Type grundfos Voltage 240 HP ~	Skies clear	Gallons Purged 812 CVs Purged 3.08
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) ~ From ~	DTW (ft brp) 102.84 Time 0840

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0735	~~81.81~~ 0	0	0	—	—	Begin	Purging	—	—	—	
0741	100.09	80	0.30	20.7	7.67	963	-217.8	0.52	9.06	~	Q ≈ 12 gpm
0747	100.53	160	0.60	20.9	7.68	948	-217.9	0.47	8.12	~	
0753	100.89	240	0.90	20.9	7.67	936	-213.3	0.45	5.48	~	
0800	101.11	320	1.21	21.2	7.59	1020	-182.4	0.42	2.65	~	
0808		396	1.5	Sample @ 1.5 CV						~	Collect Sample MW-32B_1.5V
0815	102.12	480	1.81	21.2	7.62	1012	-177.2	0.37	2.01	~	
0820	102.38	560	2.1	21.2	7.63	1001	-186.0	0.37	1.32 ~~3.74~~	~	
0830	102.61	680	2.5	21.2	7.64	991	-191.4	0.36	1.44	~	
0840	102.84	~~794~~ 800	3.0	21.2	7.65	984	-195.6	0.36	1.60	~	Collect Sample MW-32B
0842	NM	812	3.08	—	—	End	Purge	—	—	~	

SAMPLE COLLECTION SAMPLE TIME 0840

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Collected 1.5 CV Sample @ 808

Collected 3.0 CV Sample @ 0840

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 08/21/2018 TASK: 532.30 WELL ID: MW-32C

Time 0800 Static DTW (ft below reference point)	71.90	Screen SV Casing Volume (~~CV~~) (gallons) 318 SV 3 CV (gallons) 954	Weather Conditions: Time 0800 Temp. 78
Casing Total Depth (ft below reference point)	1090	Purging Device Ded pump Sampling Device ND pipe tbd	Skies Cloudy
pump to screen Water Column (feet)	535	Pump: Depth (ft brp) 560 Type Grundfos Voltage 240 HP	Wind (mph) 2 From
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast ∝	Initials: TJE/NES/DJS
			Begin Purge 0810 End Purge 0945
			Gallons Purged 963 CVs Purged
			DTW (ft brp) Time

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0810	71.90	0	0	—	—	Begin Purge		—	—	—	Q= 125 gpm
0823	>141.00	147	0.46	20.91	8.23	532	-132.4	0.42	0.19	—	
0836	>141.00	283	0.89	21.13	8.36	532	-123.5	0.60	0.38	—	
0849	NM	416	1.30	21.45	8.38	532	-101.3	0.58	0.64	—	
0902	NM	547	1.72	21.51	8.37	532	-96.2	0.34	1.19	—	
0915	NM	676	2.13	21.53	8.36	532	-98.7	0.19	1.19	—	
0928	NM	805	2.53	21.55	8.37	532	-106.9	0.28	0.58	—	
0941	NM	933	2.93	21.57	8.45	532	-115.2	—	0.76	—	
0945	NM	963	3.02	—	—	Pump off	—	—	—	—	

SAMPLE COLLECTION SAMPLE TIME

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/7/18 TASK: 532.30 WELL ID: MW-33

Time 1514 Static DTW (ft below reference point)	75.60	Casing Volume (SV) (gallons) 291 3 SV (gallons) 873	Weather Conditions	Initials: NES/AMD/DJS
Casing Total Depth (ft below reference point)	1020	Purging Device decl. pump Sampling Device 0-10 decl. pipette	Time 1530 Temp. 70	Begin Purge 1531 End Purge 1620
pump to screen Water Column (feet)	485	Pump: Depth (ft brp) 535 Type grundfos Voltage 240 HP	Skies cloudy	Gallons Purged 900 CVs Purged 3.1
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) — From —	DTW (ft brp) 76.01 Time 1618

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1531	75.60	0	0	~ Begin purge ~							Q ≈ 18 GPM pump on
1539	75.80	146	0.5	20.6	7.63	0.70	-48.5	0.46	0.98	-	
1547	75.83	291	1.0	20.9	7.71	0.70	-63.7	0.49	0.76	-	
1555	75.98	437	1.5	20.9	7.65	0.70	-22.0	0.64	0.42	-	
1603	75.98	582	2.0	20.9	7.68	0.70	-46.2	0.79	0.56	-	
1610	76.00	728	2.5	20.9	7.69	0.70	-44.1	0.78	0.32	-	
1618	76.01	873	3.0	20.9	7.64	0.70	-44.7	0.77	0.21	-	
1620	NM	900	3.1	~ End purge ~							

SAMPLE COLLECTION SAMPLE TIME 1618

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-33-1.5SV @ 1555

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/23/18 TASK: 532.30 WELL ID: MW-34A

Time 835 Static DTW (ft below reference point)	147.98	Screen SY Casing Volume (CV) (gallons) 53 3 SY (gallons) 159	Weather Conditions: Time 836 Temp. 80
Casing Total Depth (ft below reference point)	280	Purging Device ded pump Sampling Device ND pipestand	Skies clear
pump to screen Water Column (feet)	80	Pump: Depth (ft brp) 200 Type grundfos Voltage 240 HP -	Wind (mph) — From —
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Initials: AMP/AMJ
			Begin Purge 847 End Purge 904
			Gallons Purged 170 CVs Purged 3.2
			DTW (ft brp) 149.42 Time 902

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
8:47	147.98	0	0			PUMP ON					
8:49	149.42	25	0.5	21.75	7.39	1.125	-113.9	2.18	126	—	
8:51	149.42	53	1.0	21.71	7.32	1.212	-69.8	3.69	14.1	—	
8:53	149.42	79	1.5	21.74	7.31	1.213	-50.7	3.74	7.14	—	
8:57	149.42	106	2.0	21.74	7.29	1.211	-39.3	3.70	8.85	—	
8:59	149.42	132	2.5	21.74	7.27	1.213	-34.3	3.68	5.71	—	
9:02	149.42	159	3.0	21.74	7.27	1.214	-29.9	3.68	5.98	—	
9:03	NM	165	3.1	COLLECT SAMPLE							
9:04	NM	170	3.2	PUMP OFF							

SAMPLE COLLECTION SAMPLE TIME 903

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11-07-18 **TASK:** 532.30 **WELL ID:** MW-34B

Time 1450 Static DTW (ft below reference point)	141.61	Casing Volume (~~SV~~ SU (gallons) 50 3 ~~SV~~ SV (gallons) 150	Weather Conditions: Time 1455 Temp. 70°F; Skies clear; Wind (mph) — From —	Initials: DJ, MD
Casing Total Depth (ft below reference point)	536	Purging Device dedi Pump Sampling Device Lo-flow Pistons		Begin Purge 1458 End Purge 1508
Screen Water Column (feet)	76	Pump: Depth (ft brp) 460 Type grundfos Voltage 240 HP		Gallons Purged 180 CVs Purged 3.6
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast ✓		DTW (ft brp) 144.24 Time 1507

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1458	141.61	0	0								Q ≈ 18 GPM
1500	144.00	36	0.72	21.7	7.48	925	-49.3	3.23	41.1	—	
1503	144.05	90	1.80	21.7	7.48	925	-33.5	3.25	24.1	—	
1504	144.09	108	2.16	21.7	7.48	926	-34.4	3.24	88.1	—	
1505	144.21	126	2.52	21.7	7.47	928	-28.0	3.26	4.99	—	
1506	144.24	144	2.88	21.7	7.47	927	-36.1	3.24	9.01	—	
1507	144.24	162	3.24	21.7	7.47	927	-32.1	3.23	14.01	—	Sample collected MW-34B
1508	NM	180	3.60	~	~	End	purge		~	—	

SAMPLE COLLECTION SAMPLE TIME 1507

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Sample collected @ 1507 MW-34B (org)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/23/18 TASK: 532.30 WELL ID: MW-34C

Time 0759 Static DTW (ft below reference point)	137.92	Screen ~~Casing~~ Volume (CV) (gallons) 64 SV 3 CV (gallons) 192	Weather Conditions Time 0800 Temp. 70
Casing Total Depth (ft below reference point)	576	Purging Device ded. pump Sampling Device ND pipe/tape	Skies clear
pump to screen Water Column (feet)	96	Pump: Depth (ft brp) 470 Type grundfos Voltage 240 HP —	Wind (mph) — From —
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Initials: AMD/AMJ
			Begin Purge 0805 End Purge 0820
			Gallons Purged 215 CVs Purged ____
			DTW (ft brp) 160.12 Time 0818

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0805	137.92	0	0	—	—	PUMP	ON	—	—	—	
0807	156.66	40	0.6	22.90	7.95	1.536	50.8	6.66	3.91	—	Q ≈ 15 gpm
0810	159.38	64	1.0	21.88	8.02	0.616	-164.3	1.35	2.71	—	
0812	160.04	96	1.5	21.90	7.80	0.717	-137.7	0.99	1.39	—	
0815	160.98	128	2.0	21.91	7.66	0.733	-115.9	0.89	4.58	—	
0816	160.82	160	2.5	21.92	7.60	0.745	-109.0	0.80	8.19	—	
0818	160.12	192	3.0	21.92	7.57	0.749	-104.4	0.74	0.88	—	
0819	NM	200	3.12	COLLECT		SAMPLE					
0820	NM	215	3.35	PUMP	OFF						

SAMPLE COLLECTION SAMPLE TIME 0819

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/8/18 TASK: 632.30 WELL ID: MW-35c

Time 1330 Static DTW (ft below reference point)	84.30	Casing Volume ~~GW~~ SV (gallons) 378 3 CV (gallons) 1134	Weather Conditions: Time 1315 Temp. 70
Casing Total Depth (ft below reference point)	1040	Purging Device Grd Pump Sampling Device ND Pipestone	Skies Clear
Pump to screen Water Column (feet)	630	Pump: Depth (ft brp) ____ Type grundfos Voltage 240 HP	Wind (mph) — From —
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast ✓	Initials: DJS
			Begin Purge 1331 End Purge 1429
			Gallons Purged 1156 CVs Purged 3.05
			DTW (ft brp) 87.72 Time 1488

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1331	84.30	0	0	~	Begin Purge				~		Q ≈ 22 GPM
1340	87.39	189	0.5	20.4	7.46	793	-116.9	3.40	0.32	—	
1349	87.45	378	1.0	20.5	7.48	777	-117.9	3.93	3.31	—	
1402	87.69	567	1.5	20.5	7.53	788	-94.0	4.20	3.91	—	
1412	87.71	756	2.0	20.5	7.49	789	-66	4.15	2.52	✓	
1427	87.71	945	2.5	20.5	7.48	788	-95.9	4.12	4.11	—	
1428	87.72	1134	3.0	20.6	7.50	786	-75.1	4.10	2.42	—	Sample collected
1429	NM	1156	3.05	~	End	Purge			~	—	

SAMPLE COLLECTION SAMPLE TIME 1428

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Sample collected @ 1428 MW-35c

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/8/18 TASK: 532.20 WELL ID: MW-36

Time 0950 Static DTW (ft below reference point)	77.59	Screen ~~Casing~~ Volume (~~GV~~) (gallons) 5V 320 3 5V (gallons) 960	Weather Conditions: Time 0950 Temp. 72°F; Initials: DTS, AMD
Casing Total Depth (ft below reference point)	994	Purging Device ded. Pump Sampling Device 10-100 ft Peristaltic	Skies clear; Begin Purge 1015 End Purge 1130
Water Column (feet)	534	Pump: Depth (ft brp) 460 Type grundfos Voltage 240 HP —	Gallons Purged 974 CVs Purged 3.04
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast ✓	Wind (mph) — From —; DTW (ft brp) 81.20 Time 1129

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (uS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1015	77.59	0	0	~		Begin Purge			~	—	
1020	80.83	65	0.20	20.7	7.54	1212	-128.3	0.53	1.76	—	Q ≈ 13 GPM
1025	80.90	130	0.41	20.8	7.45	1186	-125.6	0.49	2.08	—	
1037	81.02	286	0.89	21.5	7.66	740	-163.5	0.44	2.10	—	
1049	81.11	442	1.38	21.6	7.51	1046	-148.9	0.44	1.13	—	
1052	81.12	480	1.50	21.6	7.50	1071	-150.4	0.46	1.16	—	Sample collected MW-36 1.5 SV
1101	81.18	597	1.86	21.7	7.48	1136	-95.5	0.42	1.25	—	
1110	81.18	714	2.23	21.7	7.46	1163	-114.2	0.40	1.85	—	
1119	81.18	831	2.59	21.7	7.46	1181	-110.4	0.39	2.14	—	
1129	81.20	961	3.00	21.7	7.46	1180	-110.7	0.39	2.48	—	
1130	NM	974	3.04	~	End Purge			~	~	—	

SAMPLE COLLECTION SAMPLE TIME 1129

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

1.5 SV Sample collected @ 1052 MW-36 1.5-SV

3V Sample collected @ 1129 (orig) MW-36

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 3/5/18 TASK: 532.30 WELL ID: MW-37

Time 11:36 Static DTW (ft below reference point)	125.20	Screen ~~Casing~~ Volume (CV) (gallons) 180	5V 3 CV (gallons) 540	Weather Conditions	Initials: AMD / NES
Casing Total Depth (ft below reference point)	820	Purging Device ded pump	Sampling Device NP pipestand	Time 11:40 Temp. 70	Begin Purge 11:38 End Purge 12:07
screen Water Column (feet)	300	Pump: Depth (ft brp) 520 Type grundfos	Voltage HP	Skies clear	Gallons Purged 5.43 CVs Purged 3.
Casing Capacity (Diameter 4 -) (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 5 From S	DTW (ft brp) 130.76 Time 12:05

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
11:38	125.20	Ø	Ø	—	—	BEGIN PURGE	—	—	—	—	
11:42	130.61	90	0.5	22.3	7.49	0.712	-105.0	0.31	1.68	-	Q≈ 21 gpm
11:47	130.63	195	1.02	22.6	7.55	0.828	-92.2	0.21	108.2	-	
11:51	130.69	270	1.51	22.7	7.60	0.761	-92.2	0.19	56.2	-	
11:58	130.74	400	2.22	22.7	7.60	0.784	-82.8	0.13	18.9	-	
12:03	130.75	510	2.83	22.7	7.59	0.792	-77.9	0.20	5.68	-	
12:05	130.76	543	3.0	22.7	7.59	0.793	-75.8	0.22	6.19	-	
12:07	NM	580	3.2	—	—	END	PURGE	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 12:05

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 3/5/18 TASK: 532.30 WELL ID: MW-38

Time 10:50 Static DTW (ft below reference point)	136.15	Casing Volume (CV) (gallons) 42.1	3 CV (gallons) 126.4	Weather Conditions	Initials: AMD/NES
Casing Total Depth (ft below reference point)	200	Purging Device ded. pump	Sampling Device NO pipestand	Time 10:50 Temp. 75	Begin Purge 10:56 End Purge 11:26
Water Column (feet)	63.85	Pump: Depth (ft brp) 190 Type grundfos Voltage 280 HP		Skies clear	Gallons Purged 141 CVs Purged 3.35
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) 0 From -	DTW (ft brp) 136.68 Time 11:29

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
10:56	136.15	0	0	—	—	PUMP	ON	—	—	—	Q = 4 gpm
10:58	136.49	12.3	0.29	21.8	7.33	1.449	-93.2	0.68	7.19	-	
11:06	136.57	49.8	1.18	21.7	7.18	1.413	-14.2	0.62	4.57	-	
11:09	136.59	58.8	1.39	21.7	7.16	1.408	-4.5	0.59	1.06	-	
11:12	136.61	78	1.85	21.7	7.15	1.403	-0.3	0.58	0.4	-	
11:17	136.68	100	2.37	21.7	7.13	1.408	7.4	0.56	0.29	-	
11:22	136.67	122	2.89	21.7	7.13	1.406	11.6	0.56	1.2	-	
11:24	136.68	127	3.02	21.7	7.13	1.407	12.3	0.56	0.80	-	
11:26	NM	141	3.35	—	—	PUMP OFF	—	—	—	—	

SAMPLE COLLECTION SAMPLE TIME 11:24

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/8/18 TASK: 532.30 WELL ID: MW-39

Time 1520 Static DTW (ft below reference point)	75.40	Casing Volume (CV) (gallons) 271	3 CV (gallons) 813	Weather Conditions	Initials: DJS
Casing Total Depth (ft below reference point)	1012	Purging Device dedi pump	Sampling Device ND Pipestart	Time 1515 Temp. 72	Begin Purge 1524 End Purge 1602
Pump to Water Column (feet) Screen	452	Pump: Depth (ft brp) 560 Type grundfos Voltage 240 HP —		Skies clear	Gallons Purged 857 CVs Purged 3.16
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast ✓		Wind (mph) — From —	DTW (ft brp) 91.21 Time 1602

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	FIELD PARAMETERS: Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1524	75.40	0	0	~	Begin Purge			~			Q ≈ 22 gpm
1530	90.76	136	0.5	21.7	8.41	410.9	-212.4	1.05	1.43	—	
1536	90.78	271	1.0	22.2	8.59	401.2	-230.3	0.88	1.56	—	
1542	90.91	407	1.5	22.1	8.44	415.6	-208	2.16	1.41	—	
1550	90.96	542	2.0	22.4	8.31	418.6	-216.7	0.39	1.24	—	
1556	91.17	678	2.5	22.4	8.32	418.3	-220.9	0.39	1.34	—	
1602	91.21	813	3.0	22.4	8.29	420.1	-225.4	0.37	1.43	—	Collected Sample MW-39
1604	NM	857	3.16	~	End Purge			~		—	

SAMPLE COLLECTION SAMPLE TIME 1602

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

collected Sample MW-39 @ 1602

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/8/18 TASK: 532.30 WELL ID: MW-40

Time 0745 Static DTW (ft below reference point)	110.01	Screen Casing Volume (~~GV~~) (gallons) 75	3 SV ~~GV~~ (gallons) 225
Casing Total Depth (ft below reference point)	970	Purging Device ded pump	Sampling Device ND pipestand
pump to screen Water Column (feet)	50	Pump: Depth (ft brp)	Type grundfos Voltage 240 HP
Casing Capacity (Diameter 6") (gallons per foot)	1.5	Monitor Well Recharge Rate: Slow	Fast X

Weather Conditions: Time 0750 Temp. 69°F; Skies cloudy; Wind (mph) — From —

Initials: AMD, DDS; Begin Purge 0755 End Purge 0816; Gallons Purged 252 CVs Purged 3.36; DTW (ft brp) 110.98 Time 0814

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0755	110.01	0	0	—	Begin	Purge			—		Q ≈ 12 gpm
0758	110.80	36	0.48	20.5	7.59	732	-148.6	2.45	3.05		
0801	110.88	72	0.96	20.9	7.62	762	-112.1	1.91	2.59		
0804	110.92	108	1.44	21.0	7.64	761	-67.0	1.86	1.90		
0807	110.94 ~~110.97~~	144	1.92	21.1	7.72	759	-45.3	3.19	2.10		
0810	110.98	180	2.4	21.0	7.64	760	-23.8	2.34	1.83		
0814	110.98	228	3.04	21.2	7.62	762	-20.7	2.46	2.08		Collected Sample
0816	NM	252	3.36	—	End	Purge			—		

SAMPLE COLLECTION SAMPLE TIME 0814

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N) If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Sample collected @ 0814 MW-40 (org)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/8/18 TASK: 032.30 WELL ID: MW-41

Time 0918 Static DTW (ft below reference point)	144.44	Screen ~~Casing~~ Volume ~~(CV)~~ SV (gallons) 79 3 ~~CV~~ SV (gallons) 118	Weather Conditions Initials: AMJ/NES
Casing Total Depth (ft below reference point)	425	Purging Device ded. pump Sampling Device 10-100 pipestand	Time 0920 Temp. 70 Begin Purge 0931 End Purge 1000
pump to screen Water Column (feet)	65	Pump: Depth (ft brp) 360 Type grundfos Voltage 240 HP –	Skies partially cloudy Gallons Purged 159 ~~CVs~~ SVs Purged
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) – From – DTW (ft brp) 149.42 Time 0952

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0931	144.44	0	0	—	—	pump	on	—	—	–	Q≈ 6
0934	149.40	~~0.5~~	0.5	22.0	7.05	2.06	-19.5	2.17	38.9	–	
0938	149.30	39	1	22.3	7.03	2.08	-7.4	2.72	50.9	–	
0941	149.35	58	1.5	22.4	7.03	2.08	13.9	3.01	55.8	–	
0945	149.37	78	2	22.4	7.02	2.08	24.6	3.10	24.0	–	
0948	149.38	97	2.5	22.4	7.02	2.08	30.8	3.19	10.26	–	
0952	149.42	118	3	22.4	7.02	2.08	35.1	3.26	9.00	–	
0955	NM	–	collect sample –								
1000	NM	159	4 pump off –								

SAMPLE COLLECTION SAMPLE TIME 0955

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	3	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MS/MSD collected

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/27/18 TASK: 532.30 WELL ID: P-07

Time 12:08 Static DTW (ft below reference point)	110.86	Casing Volume (CV) (gallons) 0.90 3 CV (gallons) 2.69	Weather Conditions	Initials: AMD/CVD
Casing Total Depth (ft below reference point)	116.38	Purging Device QuiKE bailer Sampling Device bailer	Time 12:04 Temp. 70	Begin Purge 12:24 End Purge 12:45
Water Column (feet)	5.52	Pump: Depth (ft brp) - Type - Voltage - HP -	Skies cloudy	Gallons Purged 1.1 CVs Purged 1.22
Casing Capacity (Diameter 2") (gallons per foot)	0.163	Monitor Well Recharge Rate: Slow X Fast	Wind (mph) 0-5 From W	DTW (ft brp) 111.14 Time 8:40

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
12:24	110.86	Ø	Ø			Begin	Bailing				
12:30	NM	0.3	0.33	26.5	7.68	2250	42.7	5.09	532	-	
12:41	NM	0.6	0.67	20.5	7.48	2208	40.3	6.23	750	-	
12:45	114.66	1.0	1.11	20.6	7.43	2193	39.8	5.83	890	-	
12:50	115.81	1.1	1.22	WELL	DRY						
8:40	111.14	1.1	1.22	20.5	~~6.88~~ 7.94 AMD 2/28/18	2637	64.3	5.13	110	-	SAMPLE ON 2/28/18

SAMPLE COLLECTION SAMPLE TIME 8:40

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 2/28/18 TASK: 532.36 WELL ID: P-09

Time 9:53 Static DTW (ft below reference point)	120.86	Casing Volume (CV) (gallons) 6.03 3 CV (gallons) 18.09	Weather Conditions: Time 9:53 Temp. 70; Skies clear; Wind (mph) – From –
Casing Total Depth (ft below reference point)	130	Purging Device Grundfos Sampling Device ded. tubing	Initials: AMD / CVD
Water Column (feet)	9.14	Pump: Depth (ft brp) 128' Type MPI Voltage 115 HP 0.5	Begin Purge 10:08 End Purge 10:37
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Gallons Purged 20 CVs Purged 3.31; DTW (ft brp) 124.77 Time 10:27

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	FIELD PARAMETERS: Temp. (°)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
10:08	120.86	Ø	Ø	~~21.9~~	—	PUMP ON	—	—	—	—	
10:11	122.70	2.25	0.37	21.9	7.59	2536	54.2	4.17	3.57	287	Q = 0.75 gpm
10:14	122.73	4.50	0.75	23.1	7.51	3321	55.1	3.79	2.86	287	
10:15	122.76	5.25	0.87	24.0	7.48	3541	52.6	4.18	3.11	287	PUMP SHUT OFF
10:19	NM	–	0.87	←	—	PUMP TURNED ~~OFF~~ ON				→	
10:20	122.81	7	1.16	24.1	7.47	3551	52.7	4.18	2.32	287	Q = 0.75 gpm
10:23	124.35	10	1.65	23.7	7.55	3641	48.5	4.24	2.67	287	
10:27	124.77	13	2.15	23.1	7.55	3602	48.5	3.85	0.38	287	
10:35	NM	19	3.15	23.2	7.54	3611	46.3	4.01	0.91	287	SAMPLE
10:37	NM	20	3.31	←	—	PUMP OFF	—	—	—	→	

SAMPLE COLLECTION SAMPLE TIME 10:35

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / ~~BLANKS~~? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

RB-022818 @ 10:55 → 3 VOAs 8260B
1 1L amber 8270 SIM

HARGIS + ASSOCIATES, INC.

TABLE 2

WELL CONSTRUCTION SUMMARY

Well Identifier	Date Installed	Current Land Surface Elevation (feet msl)	Current Reference Point Elevation (feet msl)	Total Depth of Borehole (feet bls)	Perforated Interval (feet bls)	Screen Slot Size (inches)	Borehole Diameter (inches)	Casing Diameter (inches) (a)	Filter Pack Interval (feet bls)	Filter Pack Sand Size	Grout Filter/ Intermediate Seal Interval (feet bls) (b)	Annular Seal Interval (feet bls) (c)
Regional Groundwater System Monitor Wells, Extraction Wells and Piezometers												
MW-06	1/16/1997	185.0	184.70	190.9	149.6 - 189.6	0.010	8.5	2	145.4 - 190.9	#2/16	139.4 - 145.4 (d)	0 - 139.4
MW-08	1/22/1997	158.6	155.91	167.2	128.1 - 166.1	0.010	8.5	2	120.7 - 167.2	#2/16	115.7 - 120.7	0 - 115.7
MW-09	3/21/1997	180.5	180.10	194.2	152.2 - 192.2	0.010	8.5	2	146.2 - 194.2	#2/16	141.2 - 146.2	0 - 141.2
MW-13	4/16/1997	142.5	141.84	159.6	120.6 - 159.6	0.010	8.5	2	114.6 - 159.6	#2/16	109.6 - 114.6	0 - 109.6
MW-15	5/18/1998	145.6	144.95	174.8	120.8 - 170.8	0.010	8.5	2	115.8 - 174.8	#2/16	112.8 - 115.8	0 - 112.8
MW-16	11/20/1999	143.0	142.40	179.5	148.5 - 178.5	0.010	11.0	4	144.5 - 179.5	#2/16	134.5 - 144.5 (e)	0 - 134.5
MW-17	5/31/2000	142.8	142.70	203.7	173.1 - 193.1 (i)	0.020	10.0	4	159.7 - 193.1	#2/16	156.2 - 159.7 193.1 - 203.7 (j)	0 - 156.2
MW-18	5/24/2000	142.4	142.32	195.6	164.1 - 194.1	0.020	10.0	4	158.9 - 194.5	#2/16	154.2 - 158.9	0 - 154.2
MW-19	5/26/2000	142.7	142.06	205.5	184.9 - 204.9	0.020	10.0	4	177.0 - 205.3	#2/16	171.5 - 177.0	0 - 171.5
MW-20	6/26/2003	184.4	184.19	200.0	158.6 - 198.2	0.020	11.0	4 (f)	158.0 - 200.0	#2/12	151.0 - 158.0 (g)	0 - 151.1 (h)
MW-21	7/17/2003	143.3	141.18	238.3	212.1 - 232.1	0.010	8.0	4 (k)	205.0 - 234.5	#2/16	202.0 - 205.0 234.5 - 238 (j)	0 - 202.0 (h)
MW-22	8/13/2003	139.4	138.65	245.0	217.4 - 237.4	0.020	8.0	4 (l)	215.0 - 236.0	#2/12	208.0 - 215.0 (m)	0 - 208.0 (h)
MW-23	8/18/2003	137.8	137.33	235.6	215.2 - 235.2	0.020	8.0	4 (n)	209.4 - 235.6	#2/12	203.5 - 209.4 (m)	0 - 203.5 (h)
MW-24	9/15/2004	143.1	142.83	338.0	310.3 - 330.3	0.030	10.6	4 (o)	306 - 330	#3	301 - 306 (p)	0 - 301 (h)
MW-25	9/10/2004	143.0	142.64	805	449.4 - 479.8	0.010	8.5 (q)	2 (r)	429 - 485	#2/16	418 - 429	0 - 418 (h)
MW-26A (s)	10/1/2004	137.6	137.04	805	279 - 309	0.020	12.25 (q)	2 (t)	274 - 315	#2/12	266 - 274	0 - 266 (h)
MW-26B (s)	10/1/2004	137.6	137.05	805	339 - 379	0.020	12.25 (q)	2 (u)	334 - 387	#2/12	266 - 274	0 - 266 (h)
MW-26C (s)	10/1/2004	137.6	137.22	805	459 - 499	0.020	12.25 (q)	2 (v)	435 - 499	#2/12	387 - 435 (w)	0 - 266 (h)
MW-27	4/22/2008	137.6	137.16	550	475 - 505.2 (cc)	0.030	11.25 (q)	4 (z)	468 - 520	#3	457.5 - 468	0 - 457.5 (h)
MW-28	5/5/2008	141.4	140.77	425	335 - 375	0.040	12.25 (q)	4 (z)	325.4- 377	#8	318 - 325.4	0 - 318 (h)
MW-29	8/15/2008	142.7	142.34	265.7	200 - 240	0.020	10.0 (aa)	4 (z)	185 - 246	#2/12	176 - 185	0 - 176 (h)
MW-30A(s)	11/26/2008	130.2	129.44	635 (j)	524-564	0.020	14.25	3 (y)	515.9-570.5	#2/12	495.5-515.9	0-495.5 (bb)
MW-30B(s)	11/26/2008	130.2	129.39	635 (j)	596-616	0.020	14.25	3 (y)	588.8-625	#2/12	586.8-570.5	0-495.5 (bb)
MW-31	10/2/2009	120.3	119.60	1,100 (jj)	946-996	0.020	13	6(kk)	922-1,006	#2/12	904-922	0-904
MW-32A(s)	12/10/2009	93.4	92.88	1,153 (gg)	890-905	0.020	18.5	4(dd)	880-910	#2/12	832-880	0-832
MW-32B(s)	12/10/2009	93.4	92.89	1,153 (gg)	969-999	0.020	18.5	4(dd)	960-1,004.5	#2/12	910-960	0-832
MW-32C(s)	12/10/2009	93.4	92.88	1,153 (gg)	1,070-1,090	0.020	18.5	4(dd)	1,054-1,100	#2/12	1,004.5-1,054	0-832
MW-33	7/2/2010	83.8	83.19	1,080 (hh)	980-1,020	0.020	11	4(dd)	970-1,025	#2/12	924-970	0-924 (ii)
MW-34A	2/3/2011	154.0	153.25	290	220 - 280	0.020	12.25	4(dd)	211 - 290	#2/12	175 - 211	0 - 175
MW-34B	2/1/2011	153.9	153.11	540	486 - 536	0.020	12.25	4(dd)	475 - 540	#2/12	449 - 475	0 - 449
MW-34C	1/19/2011	154.1	153.29	709 (ll)	556 - 576	0.020	12.25	4(dd)	551 - 582	#2/12	530 - 551	0 - 530
MW-35A	12/20/2010	94.3	93.57	1,101	420 - 470	0.020	18	4(dd)	401 - 482	#2/12	376 - 401	0 - 376
MW-35B	12/20/2010	94.3	93.56	1,101	745 - 805	0.020	18	4(dd)	725 - 816	#2/12	482 - 725	0 - 376
MW-35C	12/20/2010	94.3	93.55	1101 (ll)	990 - 1,040	0.020	12.25	4(dd)	980 - 1,048	#2/12	816 - 980	0 - 376
MW-36	1/3/2012	87.19	86.65	1030 (mm)	934 - 954 974 - 994	0.020	12.25	4(dd)	914 - 1,003	#2/12	95 -853 (oo), 853 - 914 (pp)	0 - 95 (qq)
MW-37	10/17/2012	156.02	155.60	916	770-820	0.020	12.25	4(dd)	755-834	#2/12	229-724 (rr) 724-755 (pp)	0-229 (ss)
MW-38	7/29/2013	155.7	154.90	203	150-200	0.020	10	4(z)	140-203	#2/12	120-140 (pp)	0-120 (qq)
MW-39	7/25/2013	84.71	84.25	1,080 (ll)	982-1,012	0.020	12.25	4(dd)	974-1,017	#2/12	156 -917 (rr) 917-974 (pp)	0-156 (qq)
MW-40	7/2/2013	124.09	123.40	1040 (ll)	930-970	0.030	12.25	6(dd)	916-975	#3	175 -880 (rr) 880-916 (pp)	0-175 (qq)
EW-01	5/16/2005	143.3	141.07	195	138.1-188.1	0.020	7.6	4 (x)	134.1-195	#2/12	129-134.1 (m)	0-129 (h)
EW-02	10/20/2009	136.0	132.97	473 (ee)	410-460	0.030	17.0	8 (ff)	400-465	#3	384-400	0-384
Perched Zone Piezometers												
P-07	6/6/1997	142.7	142.31	116.8	107.7 - 117.7	0.010	8.5	2	104.7 - 117.7	#2/16	101.7 - 104.7	0 - 101.7
P-09	6/30/2003	184.3	183.86	130.0	109.6 - 129.6	0.010	11.0	4	114.0 - 130.0	#2/16	101.0 - 108.0 (g)	0 - 101.0 (h)

TABLE 2

WELL CONSTRUCTION SUMMARY

NOTE: Refer to page 2 of this table for footnotes.

FOOTNOTES

msl = Mean sea level, City of Fullerton datum
bls = Below current land surface (October 2004)
(a) = Schedule 40 polyvinyl chloride (PVC) screen and casing, unless otherwise indicated
(b) = Medium bentonite chip seal, unless otherwise indicated
(c) = Bentonite grout annular seal unless otherwise indicated, completed at surface with vault set in concrete
(d) = No. 60 silica sand
(e) = Includes 2.0 feet of No. 60 silica sand placed above filter pack
(f) = Schedule 80 polyvinyl chloride screen and casing
(g) = Includes 2.5 to 3.0 feet of No. 60 silica sand placed above bentonite chip seal
(h) = Cement/bentonite grout, Type I/II Portland, less than 5% bentonite
(i) = Well plug, approximately 0.5-foot length, set at bottom of perforated interval
(j) = Bottom of borehole backfilled with bentonite chips
(k) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 122.0 - 212.1 feet bls; Schedule 40 mild steel casing 0 - 122.0 feet bls
(l) = Stainless steel wire wrap screen; Schedule 10 stainless steel cesing 112.4 - 217.4 feet bls; Schedule 40 mild steel casing 0 - 112.4 feet bls
(m) = 1/4-inch coated bentonite pellets
(n) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 110.1 - 215.2 feet bls; Schedule 40 mild steel casing 0 - 110.1 feet bls
(o) = Mild steel wire wrap screen and Schedule 40 mild steel well casing
(p) = Includes 1 to 2 feet of #2/16 sand placed above bentonite chip seal
(q) = Below filter pack, diameter of the original pilot borehole is 5 to 6.25 inches to totel depth of boring. Lower borehole backfilled with cement/bentonite grout, Typa I/II Portland, less then 5% bentonite
(r) = Stainless steel wire wrap screen, Schedule 10 stainless steel casing 429.4 - 449.4 feet bls, Schedule 80 polyvinylchloride casing 429.0 - 429.4 feet bls, Schedule 40 mild steel casing 0 - 429.0 feet bls
(s) = Nested wells MW-26A, MW-26B, MW-26C, and MW-32A, MW-32B, MW-32C are constructed with three separate well casings in a single borehole; nested well MW-30A and MW-30B is constructed with two separate casings in a single borehole.
(t) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 259 - 279 feet bls and 0 - 19 feet bls; Schedule 40 mild steel casing 19 - 259 feet bls
(u) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 319 - 339 feet bls; Schedule 40 mild steel casing 0 - 319 feet bls
(v) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 439 - 459 feet bls; Schedule 40 mild steel casing 0 - 439 feet bls
(w) = #8 granular bentonite with exception of heavy mud/formational caving filling annular interval from 417 to 428 feet bls
(x) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 118.1-138.1 feet bls; Schedule 40 mild steel casing 0-118.1 feet bls
(y) = Schedule 40 Stainless steel endcaps; Schedule 10 stainless steel casing; Stainless steel wire wrap screen
(z) = Schedule 80 PVC blank and screen casing
(aa) = Below filter pack, diameter of the original pilot borehole is 8 inches to total depth of boring. Lower borehole backfilled with cement/bentonite grout, Type I/II Portland, less than 5% bentonite
(bb) = Neat cement
(cc) = Depth of screen interval adjusted to account for loss et bottom of casing due to breakage in casing wall. Original casing (515 ft bls) was sealed at 505.2 ft bls
(dd) = Schedule 40 Stainless steel endcaps; Schedule 80 polyvinyl chloride casing; Stainless steel wire wrap screen
(ee) = Pilot borehole drilled to a total depth of 493 feet bls and backfilled with 5% bentonite-cement grout seal to 465 feet bls
(ff) = Schedule 40 Stainless steel endceps; Schedule 40 stainless steel cesing; Stainless steel wire wrap screen; 2.5-foot stainless steel sump
(gg) = Pilot borehole drilled to a total depth of 1,153 feet bls and backfilled with 5% bentonite-cement grout seal to 1,100 feet bls
(hh) = Pilot borehole drilled to a total depth of 1,080 feet bls and backfilled with 5% bentonite-cement grout seal to 1,025 feet bls
(ii) = Annular seal interval is composed of cement grout with approximately 5% bentonite from 720 to 924 feet bls and bentonite grout from near land surface to 720 feet bls
(jj) = Pilot borehole drilled to a total depth of 1,100 feet bls and backfilled with 5% bentonite-cement grout seal to 1,006 feet bls
(kk) = Schedule 40 Stainless steel endcaps; Schedule 40 stainless steel casing; Stainless steel wire wrap screen; 5-foot stainless staet sump
(ll) = Bottom of borehole backfilled with approximately 5% bentonite-cement grout
(mm) = Bottom of borehole backfilled with bentonite pellets
(oo) = High solids bentonite grout
(pp) = Bentonite chips
(qq) = Portland cement with approximately 5% bentonite
(rr) = Medium bentonite chips and #2/12 Sand; 1:1 dry volume mix
(ss) = Portland cement with approximately 2.5% bentonite

EXPLANATION

- MW-09 — GROUNDWATER MONITOR WELL
- MW-25 — GROUNDWATER PIEZOMETER
- P-09 — PERCHED ZONE PIEZOMETER
- EW-01 — GROUNDWATER EXTRACTION WELL
- MW-10 — FORMER GROUNDWATER MONITOR WELL (ABANDONED)
- P-04 — FORMER PERCHED ZONE PIEZOMETER (ABANDONED)
- DPE-05 — FORMER PERCHED ZONE DUAL-PHASE EXTRACTION WELL (ABANDONED)
- EB-01 — FORMER GROUNDWATER ASSESSMENT SOIL BORING (ABANDONED)
- PGETS — PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM FACILITY COMPOUND
- 609 — FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000
- CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
- DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT
- SITE BOUNDARY

SEE DETAIL BELOW

CITY OF FULLERTON WELL NO. 9

OCWD AIRPORT TEST WELL 3S/11W-36A6

0 250 500 FEET

DETAIL AREA

0 50 100 FEET

Oct 08, 2014 - 3:14pm ESS - T:\2014\500-599\532 Raytheon\Hydrogeology\H+A BaseMaps\410-9312.dwg

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

10/14 | RPT NO. 532.31 | 410-9312 | A

FIGURE 2.
WELL AND PIEZOMETER LOCATIONS

CITY OF BUENA PARK
PERMIT TO EXCAVATE, FILL, OBSTRUCT OR CONSTRUCT PUBLIC HIGHWAY

PERMIT # G18-005
DATE: 02/27/18
GP# N/A
REF# Geological N10

Subject to the provisions of the Buena Park Municipal Code and all the applicable laws, rules, and regulations of the City of Buena Park or any other public agency, a Permit is hereby granted to:

Job Location: MEADOWBROOK WAY (N/O MALVERN E/O DALE)

Property Owner:	CITY OF BUENA PARK	6650 BEACH BLVD.	714-562-3670
		BUENA PARK, CA 90621	
Applicant:	HARGIS & ASSOCIATES, INC.	TYLER EVANS, HYDROGEOLOGIST	
Contractor:	HARGIS & ASSOCIATES, INC.	9171 TOWNE CENTRE DR.,SUITE 375	858/455-6500
		SAN DIEGO, CA. 912122	

Deposit Refunded to N/A

DESCRIPTION OF WORK: The City engineer hereby authorizes the Permittee to do the following work including backfilling, compaction, surfacing and/or as outlined in the description of work below.

ANNUAL GEOLOGICAL PERMIT FOR THREE (3) OFF-SITE MONITORING WELLS TO MONITOR GROUNDWATER (GAUGE POTENTIOMETRIC SURFACE AND COLLECT SAMPLES) IN SUPPORT OF GROUNDWATER INVESTIGATION PER CITY STANDARDS AND CONDITIONS. TRAFFIC CONTROL PER CURRENT WATCH MANUAL. REMOVE ALL USA MARKINGS. A PRE-CONSTRUCTION MEETING IN THE FIELD WITH CITY INSPECTOR, 714-562-3693 MUST BE SCHEDULED NO LESS THAN 48 HOURS PRIOR TO THE START OF WORK. PERMIT EXPIRES 03/01/19.

THIS PERMIT IS ISSUED SUBJECT TO THE FOLLOWING CONDITIONS:

PERMIT MUST BE KEPT AT THE SITE OF THE WORK AND BE SHOWN, ON DEMAND, TO ANY AUTHORIZED REPRESENTATIVE OF THE CITY OF BUENA PARK OR ANY LAW ENFORCEMENT OFFICER.

PERMIT SHALL AUTHORIZE WORK TO BE PERFORMED ONLY AS TO SUCH PORTION OF THE HIGHWAY OVER WHICH THE CITY OF BUENA PARK HAS JURISDICTION.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THIS PERMIT AND OF ALL APPLICABLE LAWS, RULES, AND REGULATIONS OF THE CITY AND ANY OTHER PUBLIC AGENCY AND TO THE SATISFACTION OF THE CITY ENGINEER.

THIS PERMIT SHALL BE NON-TRANSFERABLE.

THE CITY ENGINEER, AT HIS DISCRETION, MAY CANCEL THE PERMIT UNLESS THE WORK AUTHORIZED HEREIN IS COMMENCED WITHIN SIXTY (60) DAYS FROM DATE OF ISSUANCE, AND IS DILIGENTLY PROSECUTED TO COMPLETION, CANCELLATION MAY BE EFFECTED BY GIVING WRITTEN NOTICE THEREOF TO THE APPLICANT BY ORDINARY MAIL TO THE ADDRESS SHOWN ON THE APPLICATION.

THE CITY ENGINEER MAY, EITHER AT THE TIME OF THE ISSUANCE OF THE PERMIT OR AT ANY TIME THEREAFTER UNTIL THE COMPLETION OF THE WORK, PRESCRIBE SUCH ADDITIONAL CONDITIONS AS HE MAY DEEM REASONABLY NECESSARY FOR THE PROTECTION OF THE HIGHWAY OR FOR THE PREVENTION OF UNDUE INTERFERENCE WITH TRAFFIC OR TO ASSURE THE SAFETY OF PERSONS USING THE HIGHWAY.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS (CURRENT ISSUE) EXCEPT AS MODIFIED BY THE CITY OF BUENA PARK STANDARD PLANS (CURRENT ISSUE) OR AS DIRECTED BY THE CITY ENGINEER.

WORK TO START: WANTS INSPECTION:

INSPECTION REPORT

PRELIM CHECK		FIND CHECK		DEPOSIT REMARKS		REMARKS
Date	By	Date	By	Release Ok	Forfeit	

APPLICANT MUST COMPLY WITH ALL REGULATIONS.

Signature of Applicant

By KIM THOMAS, PERMIT TECHNICIAN

PERMITTEE SHALL GIVE CITY 48 HOURS NOTICE WHEN REQUESTING INSPECTION UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE (714) 562-3670

SIGNATURE: TJE DATE: 2/27/18 PERMIT NO.: G18-005

REGULATIONS GOVERNING PERMIT ISSUED SUBJECT TO THE PROVISIONS OF THE MUNICIPAL CODE OF THE CITY OF BUENA PARK

COMPLIANCE WITH TERMS OF PERMIT REQUIRED

A permittee shall not make or cause to be made any excavation, or construct, place upon, maintain, or leave any obstruction or impediment to travel, or pile or place any material in or upon any highway, or install or maintain or cause to be installed or maintained any tank, pipe, conduit, duct, or tunnel in, upon, or under the surface of any highway, at any location or in any manner other than that described in the application as approved by the Engineer, or contrary to the terms of the permit or of any provisions of this permit.

TRAFFIC TO BE KEPT OPEN

Trenching for installations across any intersecting roadway open to traffic shall be progressive. Not more than ½ of the width of a traveled way shall be disturbed at one time and the remaining width shall be kept open to traffic by bridging or backfilling.

LOCATION OF PIPES AND CONDUITS

All pipes and conduits laid parallel to the roadway shall be placed at least five (5) feet from the edge of the pavement or graded traveled roadway, unless otherwise authorized in writing by the Engineer. The shallowest portion of any pipe line or other facility shall be installed not less than thirty (30) inches below the roadway surface.

WORK REGULATIONS

In backfilling there shall be no flooding of the trench within the upper twenty-four (24) inches. All loose backfill shall be dampened and well tamped with a pneumatic tamper or in any other workmanlike manner satisfactory to the Engineer, to obtain 90% relative compaction.

All excavated material shall be cast away from the improved portion of the highway. After the work has been completed all excess material, including excess excavation, shall be removed from the right of way and the road-way left in a neat and orderly condition.

All roadside drainage ditches shall be restored to a true grade and the intake and outlet ends of all culverts shall be left free from all excess materials and debris.

All approaches to private driveways and intersecting roads and streets shall be kept open to traffic at all times, unless otherwise approved by the City Engineer.

Clay and earth which adhere to the paved surface of the roadway shall be removed by hand scraping, washing, and sweeping, or by any other method which will leave a clean non-skid surface without impairing, injuring or loosening the surface.

All muck or mud resulting from water or any leaky condition will be removed and excavation backfilled with compactible material which is most effective.

Permittee shall comply with any and all directives issued by the City Engineer in order to prevent dust or other material from becoming a nuisance or annoyance.

PROTECTION OF TRAVELING PUBLIC

Traffic control devices shall be in place prior to start of work. Devices and layout shall conform to the latest edition of THE STATE OF CALIFORNIA manual of warning signs, lights, and devices for use in performance of work upon highways.

Permittee shall take adequate precautions for the protection of the traveling public. Barricades, lights, and warning signs, together with flagmen where necessary, shall be maintained until the excavation is refilled, the obstruction removed, and the roadway is safe for the use of the traveling public. The Engineer may specify, as a condition of the issuance of the permit, the safety devices or measures to be used by the permittee, but the failure of the Engineer to so specify the devices or measures to be used shall not relieve the permittee of his obligation hereunder.

COST OF FURTHER REPAIRS TO BE PAID BY PERMITTEE

If at any time subsequent to the first repair of a surface of a highway damaged or destroyed by any excavation or obstruction in such highway, it becomes necessary again to repair such surface due to settlement or any other cause directly attributable to such excavation or obstruction, the permittee shall pay to the City the cost of such additional repairs made by the Engineer. The cost shall be computed by the Engineer.

RESTORATION OF HIGHWAY UPON COMPLETION OF WORK

Immediately upon completion of the work necessitating the excavation or obstruction authorized by any permit issued pursuant to this permit, the permittee shall promptly and in a workmanlike manner refill the excavation or remove the obstruction to the satisfaction of the City Engineer.

If any permittee fails or refuses to refill any excavation which he has made or remove any obstruction which he has placed on any highway, the Engineer may do so and the applicant shall promptly reimburse the City the cost thereof.

RESURFACING BY PERMITTEE OR CITY AND SPECIFICATIONS THEREFOR

TEMPORARY PATCHING OF TRENCH IS REQUIRED ON LATERAL CUTS IN SURFACED STREETS IMMEDIATELY AFTER BACKFILLING.

After completion of the refilling and compacting of the backfill material in the excavation as specified and the removal of the obstruction, the permittee shall promptly replace with temporary or permanent patching material or repair any portion of the highway surface removed or damaged by the excavation, obstruction or construction operations to the satisfaction of the City Engineer, and as specified elsewhere herein, or the Engineer may at his option elect to do the surfacing or repairing himself.

Where the pavement, except Portland Cement Concrete pavement, or surface has been removed by others, the permittee shall replace it with a standard repair of 3" A.C. over 6" A.B. or repair section shall be 1" A.C. and 1" A.B. greater than existing structural section, whichever is greater. Plant Mix surfacing over native soil is 4" A.C. minimum. . Portland Cement surfacing shall be replaced with Portland Cement Concrete. A.C. shall conform to Standard Specifications (STATE OF CALIFORNIA) consisting of AR4000 (85-100) paving asphalt, ¾" maximum aggregate for base course (medium) and ½" aggregate for surface course (medium). A.B. shall conform to Standard Specifications (STATE OF CALIFORHIA) Class III modified. Seal, Tack and Prime coats required. Saw cutting of edges of trenches are required for all surfaces. Equivalent total A.C. sections may be substituted with the approval of the City Engineer.

COST OF RESURFACING TO BE BORNE BY PERMITTEE

If, after the refilling of an excavation the permittee fails or refuses to resurface or repair that portion of the surface of the highway damaged by him, or if the Engineer has elected to do such resurfacing or repairing, the Engineer shall do so and the permittee shall be charged with the cost thereof computed by the Engineer.

PERMITTEE TO PAY DEFICIENCY

If any deposit is insufficient to pay all fees and costs herein provided, the permittee shall, upon demand, pay to the City of Buena Park an amount equal to the deficiency.

EFFECT OF FAILURE TO PAY COSTS OF DEFICIENCY

If a permittee, upon demand, fails to pay any deficiency as provided, or shall fail to pay any other costs due the City hereunder for which no deposit has been made, the City may recover the same by an action in any court of competent jurisdiction. Until such deficiency or cost is paid in full, a permit hereunder shall not thereafter be issued to such permittee.

PERMITTEE SHALL PROVIDE ACCESS

In the event that any work permitted by this permit prevents or hinders vehicular or pedestrian traffic to travel from the street to any property, whether public or private, then the permittee shall construct and maintain such structures as the City Engineer shall prescribe as will permit access to said property.

PERMITTEE SHALL SAVE CITY HARMLESS

The permittee guarantees to save, indemnify and keep harmless the City of Buena Park and all its agents, officers, employees, and officials against all liabilities, judgments, costs and expenses which may in any manner or form arise in consequence to the issuance of this permit or any work performed in consequence thereof.

CITY OF BUENA PARK
Department of Public Works

ENCROACHMENT CONDITIONS FOR PERMIT# G18-005

Conditions governing permit issued, subject to the provisions of the Buena Park Municipal Code

A permittee shall not make or cause to be made any excavation, or construct, place upon, maintain or cause to be installed or maintained any tank pipe, conduit, duct, or tunnel in, upon, or under the surface of any highway, at any location or in any manner other than that described in the application as approved by the Engineer, contrary to the terms of the permit or of any provisions of this permit.

1. General Contractor is responsible for the subcontractors conduct. SUPERINTENDENT MUST BE ON THE JOB SITE AT ALL TIMES WHEN WORK OF ANY KIND IS TAKING PLACE.

2. The Contractor shall schedule a pre-construction meeting in the field with the City Inspector, (714) 287-5970 and / or (714) 743-7592, no less than 72 hours prior to the beginning of construction. THE CONTRACTOR'S FOREMAN ASSIGNED TO THE PROJECT SHALL ATTEND THE PRECONSTRUCTION MEETING

3. 48-Hours prior to start of construction the Contractor shall notify Underground Service Alert (U.S.A) at 1-800-227-2600.

4. Traffic control per the current W.A.T.C.H. manual unless Traffic Control Plans are required by the Engineer. Solar powered arrowboards are required for all lane closures. Provide flagmen as directed by the Engineer.

5. 72-Hour prior inspection notice required for lane closures, excavations, detours, hauling, etc.

6. Excavation and shoring plans prepared by a Civil or Structural Engineer shall be submitted to City no less than three (3) days prior to beginning work for excavations 5' (1.5m) deep or greater. Also submit a copy of State Excavation Permit

7. Haul route plans shall be submitted to the City of Buena Park Traffic Engineer for approval no less than five (5) days prior to beginning work. Upon approval of plans, the contractor shall apply for a haul permit.

8. The Contractor/Developer shall employ or designate a full time safety officer for the duration of the project.

9. Contractor's activities shall be confined to Monday through Friday between the hours of 7:00 a.m. and 4:00 p.m. for residential streets and 9:00 a.m. to 3:00 p.m. for arterial streets, unless otherwise approved by the Engineer.

10. At the end of each day the Contractor shall remove all equipment, construction debris, and materials from the construction area. Trenches shall either be backfilled with temporary pavement or covered with steel plates and traffic returned to its normal condition.

11. Stockpiling materials in public right of way is prohibited.

12. Existing improvements to be protected in place. Both public and private improvements which are damaged or destroyed due to the contractor's own convenience and/or negligence shall be reconstructed to the satisfaction of the Engineer within 3 calendar days.

13. Contractor shall pothole all utilities prior to excavation or boring.

14. Soils Engineer must be on job site at all times during grading, backfill and compaction operations.

15. Excavation per City of Buena Park Standard No. 310. Backfill shall be 1 1/2 sack cement sand slurry, unless otherwise directed by the Engineer. 95% compaction required. Clean sand bedding and backfill shall have a minimum

CITY OF BUENA PARK
Department of Public Works

ENCROACHMENT CONDITIONS FOR PERMIT# G18-005

Conditions governing permit issued, subject to the provisions of the Buena Park Municipal Code

sand equivalent of 30.

16. Provide dust control at all times. Clean streets with mobile sweeper daily, continuously during hauling operations. Sweeper and water truck MUST be on job at all times.

17. Hydrant meter required for construction water.

18. Curb ramps shall be asphalt with 3" (7.6 cm) minimum I.D. steel pipe in the gutter.

19. Asphalt base course paving shall be installed to the finish surface within 5 working days of completion of work unless otherwise approved by the Engineer.

20. Excavation and boring operations shall not take place on any days when City Hall is closed unless otherwise approved by the Engineer.

21. Upon completion of work the contractor shall clean streets to the satisfaction of the Engineer

22. Steel traffic plates shall not remain at any one location for more than 4 working days unless otherwise approved by the Engineer.

23. Stompers and Rockwheels shall NOT be used for ANY portion of work on this project.

24. Upon completion of work the contractor shall remove all U.S.A. markings.

25. Permanent asphalt paving shall be completed within ten (10) working days of completion of work.

26. As a condition prior to issuing this permit, Contractor agrees to provide evidence of commercial general liability insurance, automobile liability insurance, and worker's compensation insurance, at levels prescribed by the City, and including additional insured endorsements for general and automobile liability and a waiver of subrogation for worker's compensation, satisfactory to the City.

27. Permit deposits of $1,000 or less shall be 100% refundable upon project release by Public Works City Inspector. For deposits over $1,000, 10% of the deposit (per discretion of the Public Works City Inspector, depending on the work being performed) shall be retained for 1 year from the final project release date as a warranty bond.

ACKNOWLEDGEMENT

I (We) the undersigned hereby acknowledge that I (We) have received these Conditions to the encroachment permit issued by the City of Buena Park and that all permit conditions specified herein will be adhered to by the Contractor/Developer on this project.

Date	(Same) → Applicant Print Name	2/27/18 Date	Tyler Evans Contractor Print Name
	→ Applicant Signature		Contractor Signature

Fee Items- G18-005 09:29 02/27/2018

Item #	Description	Fee Amount	Pmt Amount	Balance	Account code
2020	Improvements/Inspection	$440.00	$0.00	$440.00	11-3729-760310
2165	Encroachment Permit	$30.00	$0.00	$30.00	11-3216-760310

Total Rows: 2

TOTAL = $470.00

Hargis + Associates
Re: Meadowbrook + Rockledge
(Geological Samples - Annual)

COUNTY PROPERTY PERMIT

5/3/2018

2018-00305
Balkis, Mustapha 4:11:34 PM
INSPECTION PHONE
(714)955-0341
Inspection office shall be notified at least TWO (2) WORK DAYS PRIOR to commencing permitted use. FAILURE TO OBTAIN INSPECTION SHALL VOID THIS PERMIT

ENCROACHMENT PERMIT
COUNTY OF ORANGE
OC Public Works/ OC Planning/ County Property Permits

Main Office: 300 North Flower Street,
Santa Ana, California 92703-5001
or P.O. Box 4048, Santa Ana, California 92702-4048
(714) 667-8888
Fax: (714) 667-8885

Permit No: **2018-00305**
Effective Date: 5/1/2018 12:00 AM
Expiration Date: 5/1/2019 12:00 AM
Applicant assumes sole responsibility for obtaining a rider (extension) prior to this date

PERMITTEE

Raytheon Company
1801 Hughes Drive

Fullerton, CA 92834
714-446-3525

Contact Person Paul Brewer
Telephone No. 714-446-3525

FACILITY

Type	Facility Name	Number
	BREA CREEK CHANNEL	A02

Permittee Ref No.: Replace permit: 2017-00311

Insured Hargis + Associates Inc. **Policy** MZX80987262 **Expires** 5/1/2019

PERMITTED USE: User of County property is hereby authorized as follows, subject to provisions attached hereto:

Replace permit: 2017-00311

Original permit: Temporary access for monitoring one (1) groundwater well # MW-39 located at 1901 W. Malvern Avenue, at Dale Street, in Buena Park within a portion of Orange County Flood Control District's Brea Creek Channel (A02) right-of-way, per attached plans, provisions, and to the satisfaction of County inspection personnel.

-Permittee is responsible for notifications to individuals and or agencies that may be affected by the discharge.
-Permittee should conduct a video inspection of all permitted pipes discharging to County of Orange maintained facility every 5 years or after repair or replacement of discharge lines.
- Permitted use not effective until approved by the assigned inspector.
- Permittee is responsible for cleanup and security of site.
- Permittee to coordinate access with inspection staff.
- If permitted actions identify larger scale construction issue the permitted will be required to initiate construction permit.

CEQA Code 1 SWPPP: No

LOCATION OF WORK:

Brea Creek Channel (A02) at 1901 W. Malvern Avenue, at Dale Street, in Buena Park.

Dimension/Type: (1) Mornitoring Well Thomas Brother: 738; A6 Area: Buena Park

PERMITTEE'S ACCEPTANCE:

SIGNATURE ON FILE

COUNTY APPROVAL:

Olivera, Jerry 5/2/2018

PERMIT AND APPROVED PLANS SHALL BE MAINTAINED ON JOB SITE. PERMITTEE SHALL COMPLY WITH REGULATIONS PRINTED ON REVERSE SIDE OF PERMIT AND ATTACHMENTS. ALL UNDERGROUND WORK REQUIRES PRIOR 'UNDERGROUND SERVICE ALERT' COMPLIANCE. THIS PERMIT IS NON-TRANSFERABLE.

Note: Surety will not be refunded until Final Inspection is performed and submitted to County Property Permits.

ENCROACHMENT PERMIT

CONSIDERATION:

Types	PWO#	Permit Fees	Surety	Penalty	App Fee	Flat	Total	Total Fees: 787.95
FT	EF68010	721.00 (2074)	0.00 (2091)	0.00	66.95 (2161)	0.00 (2071)	787.95	

Surety Paid By: TUF Invoice Paid By:

Contractor: Hargis + Associates, Inc.; 9171 Towne Centre Drive, Suite 375, San Diego, CA 92122; Contact: Steven P. Netto, 858-455-6500 x 130, snetto@hargis.com

Engineer: Hargis + Associates, Inc.; 9171 Towne Centre Drive, Suite 375, San Diego, CA 92122; Contact: Steven P. Netto, 858-455-6500 x 130, snetto@hargis.com

Inspection: Operations & Maintenance CC: Operations & Maintenance

PERMIT INSPECTORS REPORT:

DATE WORK COMPLETED:_____

The permitted work was completed in satisfactory manner per instructions and/or the as-built plans and inspectors report submitted herewith for county files

Remarks:

Inspector:

Date

Permit Superintendent:

Date

Refund Recommended By:

Date

Refund Approved By:

Date:

COUNTY PROPERTY PERMIT

5/3/2018

2018-00306
Balkis, Mustapha 4:11:58 PM
INSPECTION PHONE
(714)955-0341
Inspection office shall be notified at least TWO (2) WORK DAYS PRIOR to commencing permitted use. FAILURE TO OBTAIN INSPECTION SHALL VOID THIS PERMIT

ENCROACHMENT PERMIT
COUNTY OF ORANGE
OC Public Works/ OC Planning/ County Property Permits

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Santa Ana, California 92703-5001
or P.O. Box 4048, Santa Ana, California 92702-4048
(714) 667-8888
Fax: (714) 667-8885

Permit No: **2018-00306**
Effective Date: 5/1/2017 12:00 AM
Expiration Date: 5/1/2019 12:00 AM

Applicant assumes sole responsibility for obtaining a rider (extension) prior to this date

PERMITTEE

Raytheon Company
1801 Hughes Drive

Fullerton, CA 92834
714-446-3525

Contact Person Paul Brewer
Telephone No. 714-446-3525

FACILITY

Type	Facility Name	Number
	BREA CREEK CHANNEL	A02

Permittee Ref No.: Replaces Permit: 2017-00292

Insured Hargis + Associates Inc. **Policy** MZX80987262 **Expires** 5/1/2019

PERMITTED USE: User of County property is hereby authorized as follows, subject to provisions attached hereto:

Replaces Permit: 2017-00292

Temporary access for monitoring one (1) groundwater well #MW-36 located at 8600 Malvern Avenue, in Buena Park within a portion of Orange County Flood Control District's Brea Creek Channel (A02) right-of-way, per attached plans and provisions.

-Permittee is responsible for notifications to individuals and or agencies that may be affected by the discharge.
- Permittee should conduct a video inspection of all permitted pipes discharging to County of Orange maintained facility every 5 years or after repair or replacement of discharge lines.
- Permittee is responsible for cleanup and security of site.
- Permittee to coordinate access with inspection staff.
- If permitted actions identify larger scale construction issue the permitted will be required to initiate construction permit.

CEQA Code 1 SWPPP: No

LOCATION OF WORK:

Brea Creek Channel (A02) at 8600 Malvern Avenue, Buena Park

Dimension/Type: (1) Mornitoring Well Thomas Brother: 738; A6 Area: Buena Park

CONSIDERATION:

Types	PWO#	Permit Fees	Surety	Penalty	App Fee	Flat	Total	Total Fees: 787.95
FT	EF68010	721.00 (2074)	0.00 (2091)	0.00	66.95 (2161)	0.00 (2071)	787.95	

PERMITTEE'S ACCEPTANCE:

SIGNATURE ON FILE

COUNTY APPROVAL:

Olivera, Jerry 5/2/2018

PERMIT AND APPROVED PLANS SHALL BE MAINTAINED ON JOB SITE. PERMITTEE SHALL COMPLY WITH REGULATIONS PRINTED ON REVERSE SIDE OF PERMIT AND ATTACHMENTS. ALL UNDERGROUND WORK REQUIRES PRIOR 'UNDERGROUND SERVICE ALERT' COMPLIANCE. THIS PERMIT IS NON-TRANSFERABLE

Note: Surety will not be refunded until Final Inspection is performed and submitted to County Property Permits.

ENCROACHMENT PERMIT

Surety Paid By:

TUF Invoice Paid By:

Contractor: Hargis + Associates, Inc.; 9171 Towne Centre Drive, Suite 375, San Diego, CA 92122; Contact: Steven P. Netto, 858-455-6500 x 130, snetto@hargis.com

Engineer: Hargis + Associates, Inc.; 9171 Towne Centre Drive, Suite 375, San Diego, CA 92122; Contact: Steven P. Netto, 858-455-6500 x 130, snetto@hargis.com

Inspection: Operations & Maintenance CC: Operations & Maintenance

PERMIT INSPECTORS REPORT:

DATE WORK COMPLETED:_____

The permitted work was completed in satisfactory manner per instructions and/or the as-built plans and inspectors report submitted herewith for county files

Remarks:

Inspector:

Date

Permit Superintendent:

Date

Refund Recommended By:

Date

Refund Approved By:

Date:

APPENDIX C

CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER
UNIT B HYDROGRAPHS

APPENDIX C

CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER

UNIT B HYDROGRAPHS

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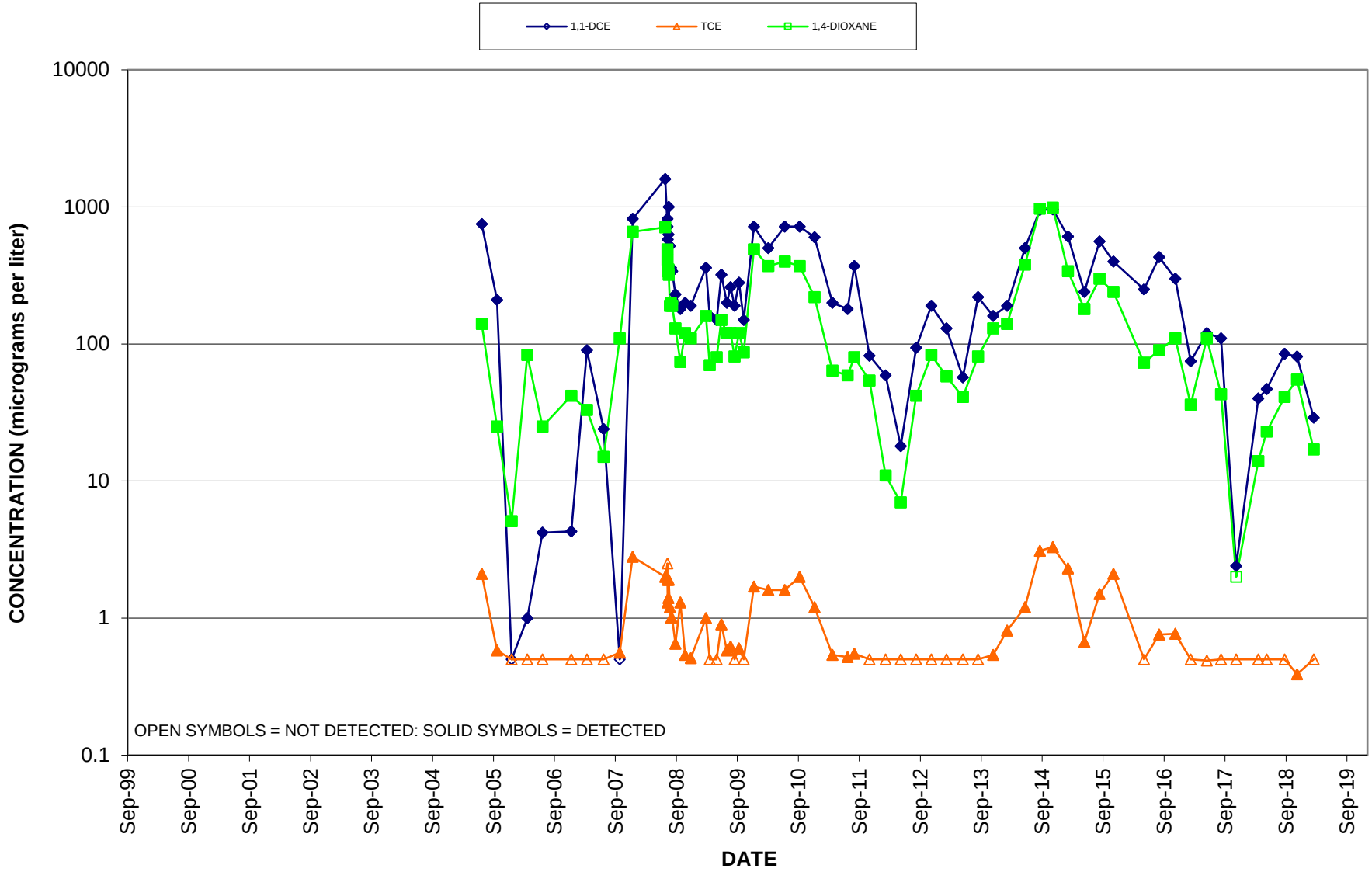
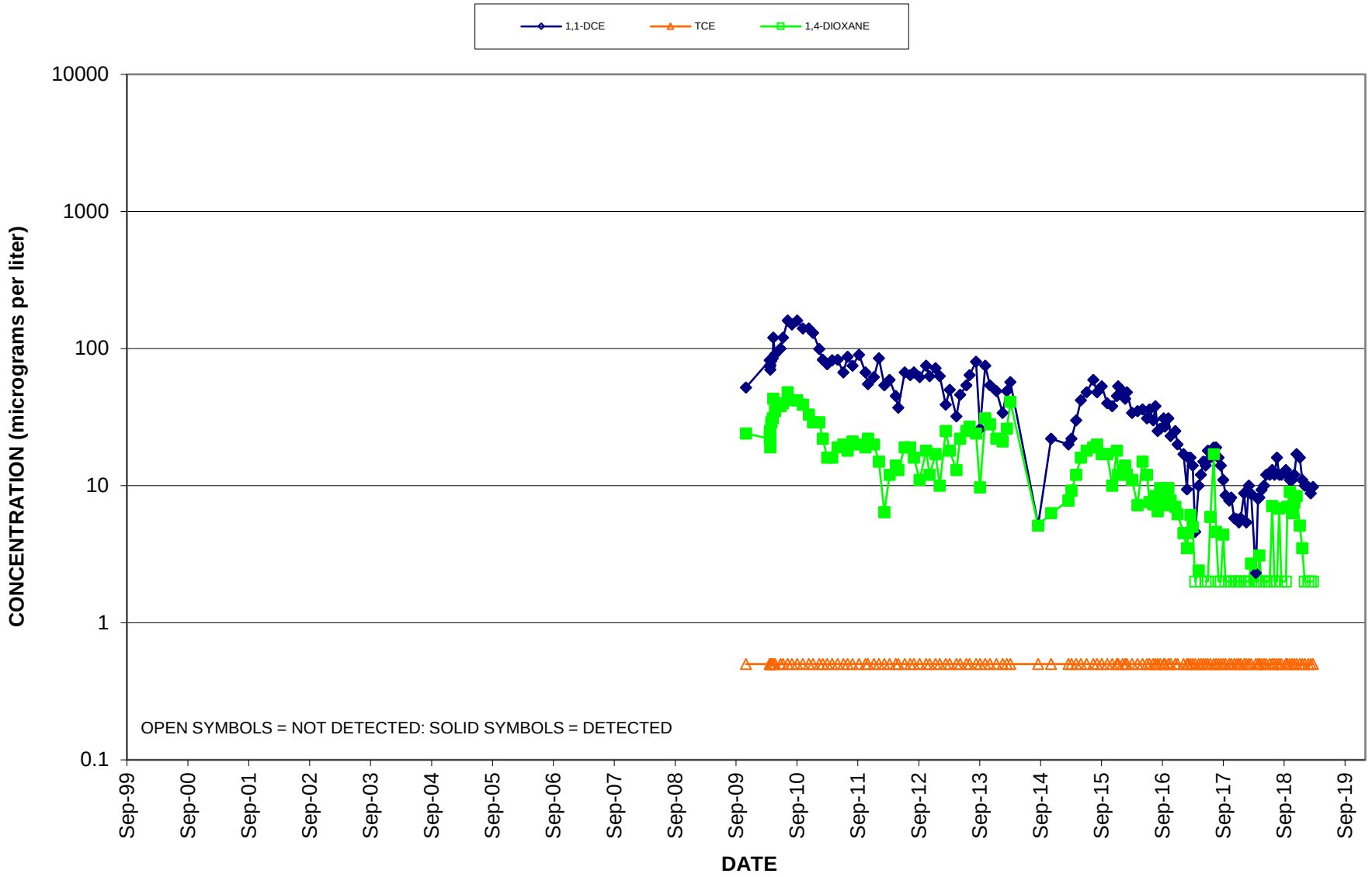
FIGURE C-1: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, EW-01



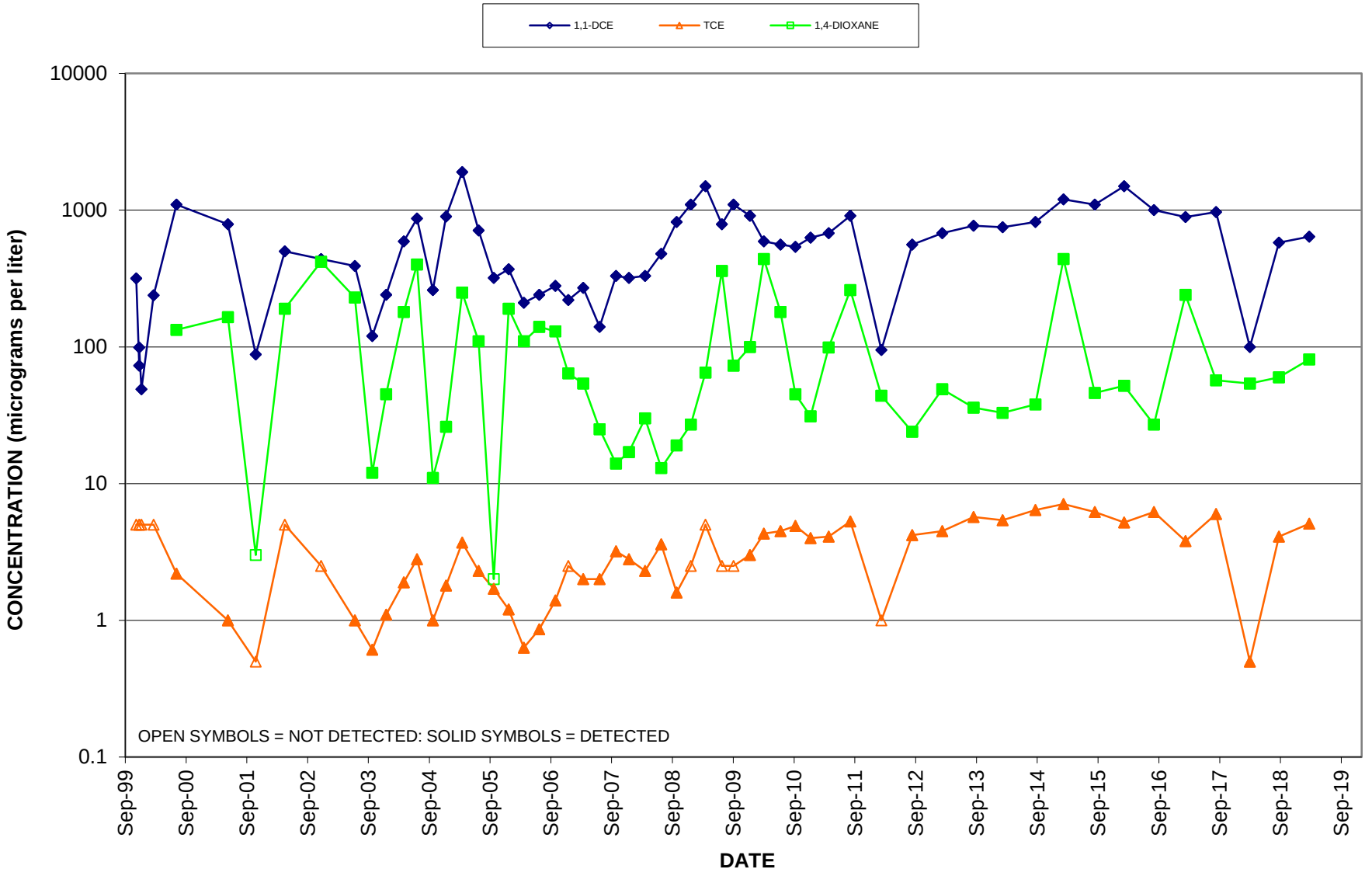
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-2: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, EW-02



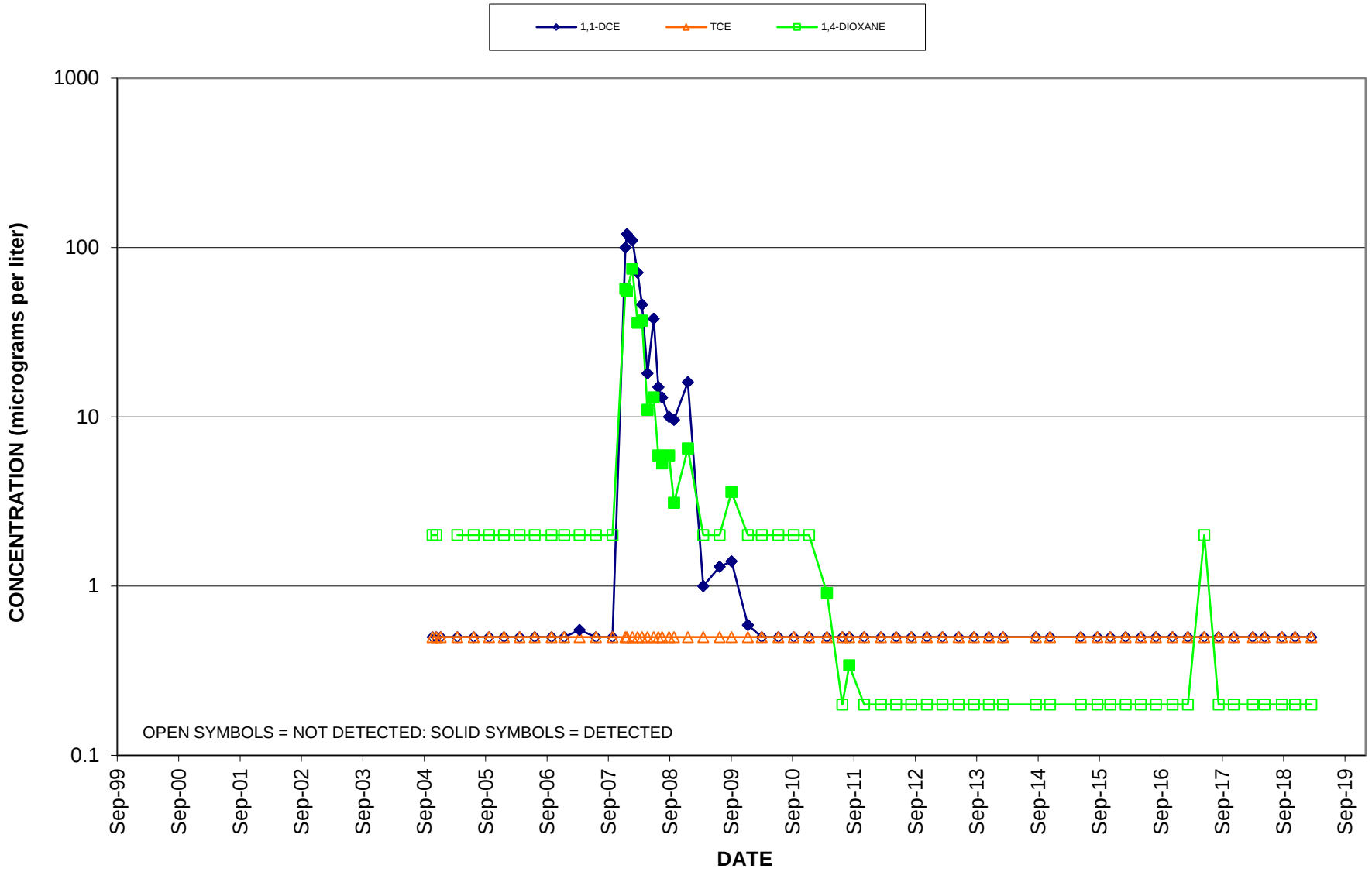
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-3: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-16



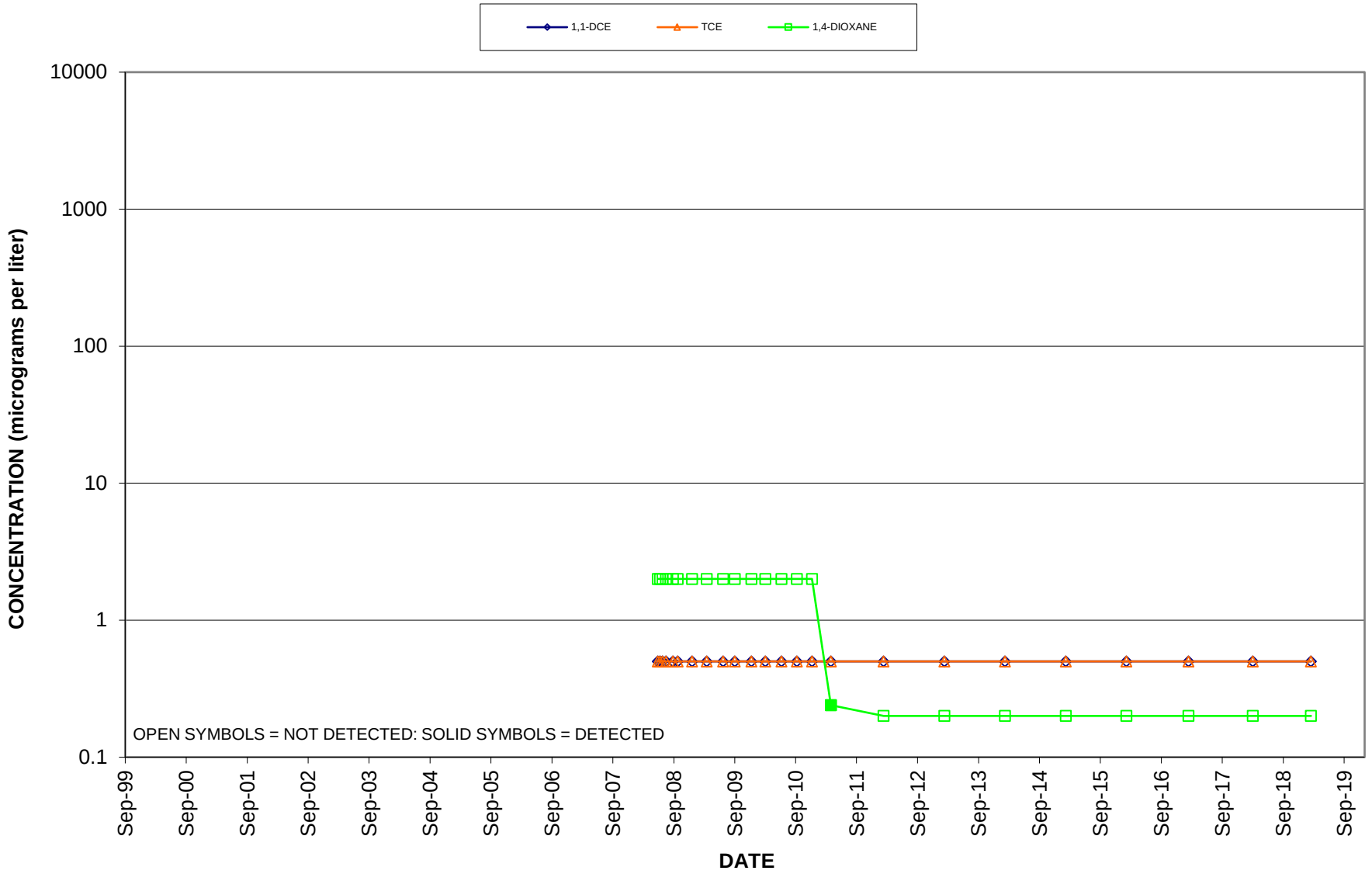
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-4: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-26C



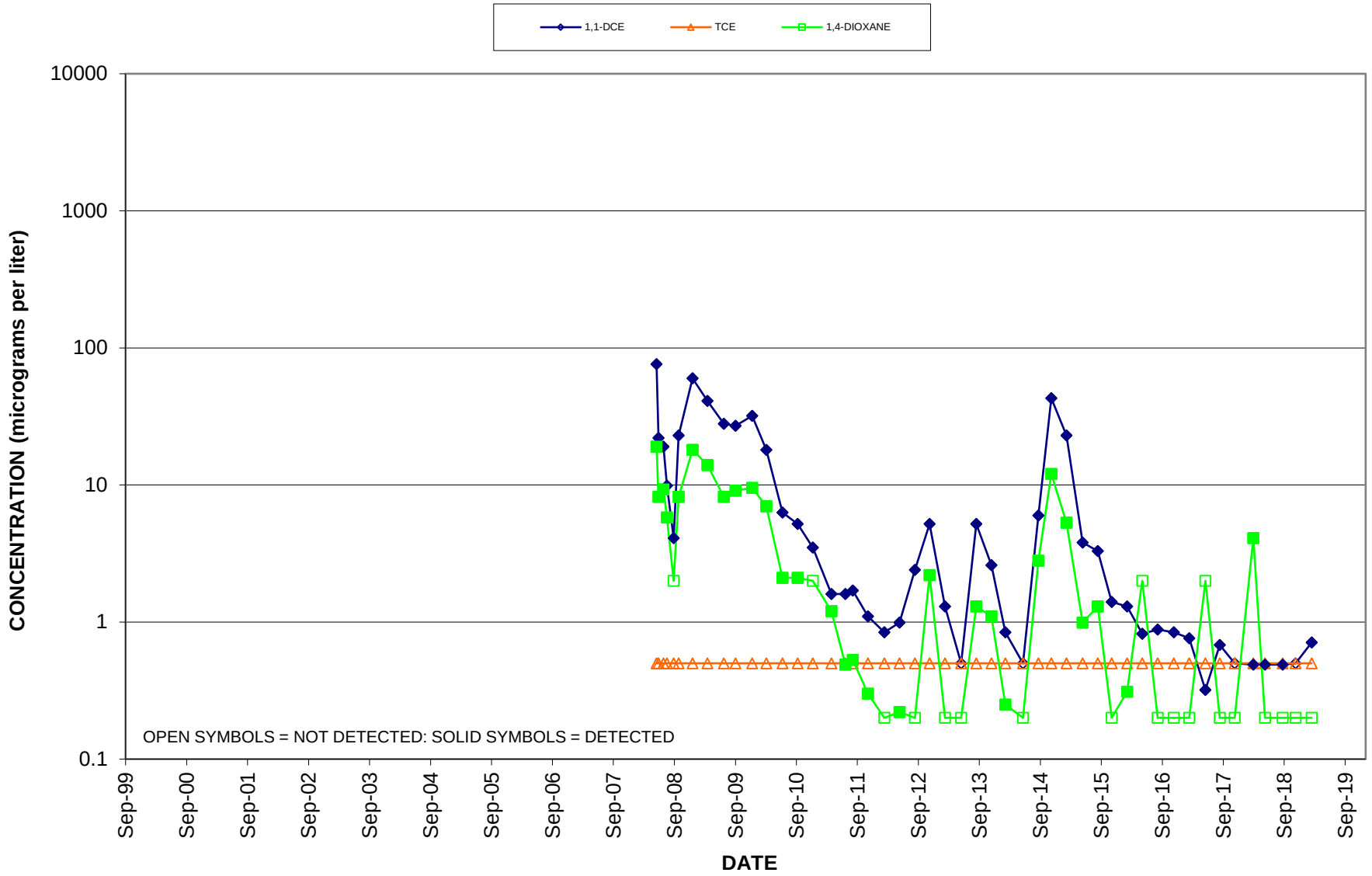
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-5: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-27



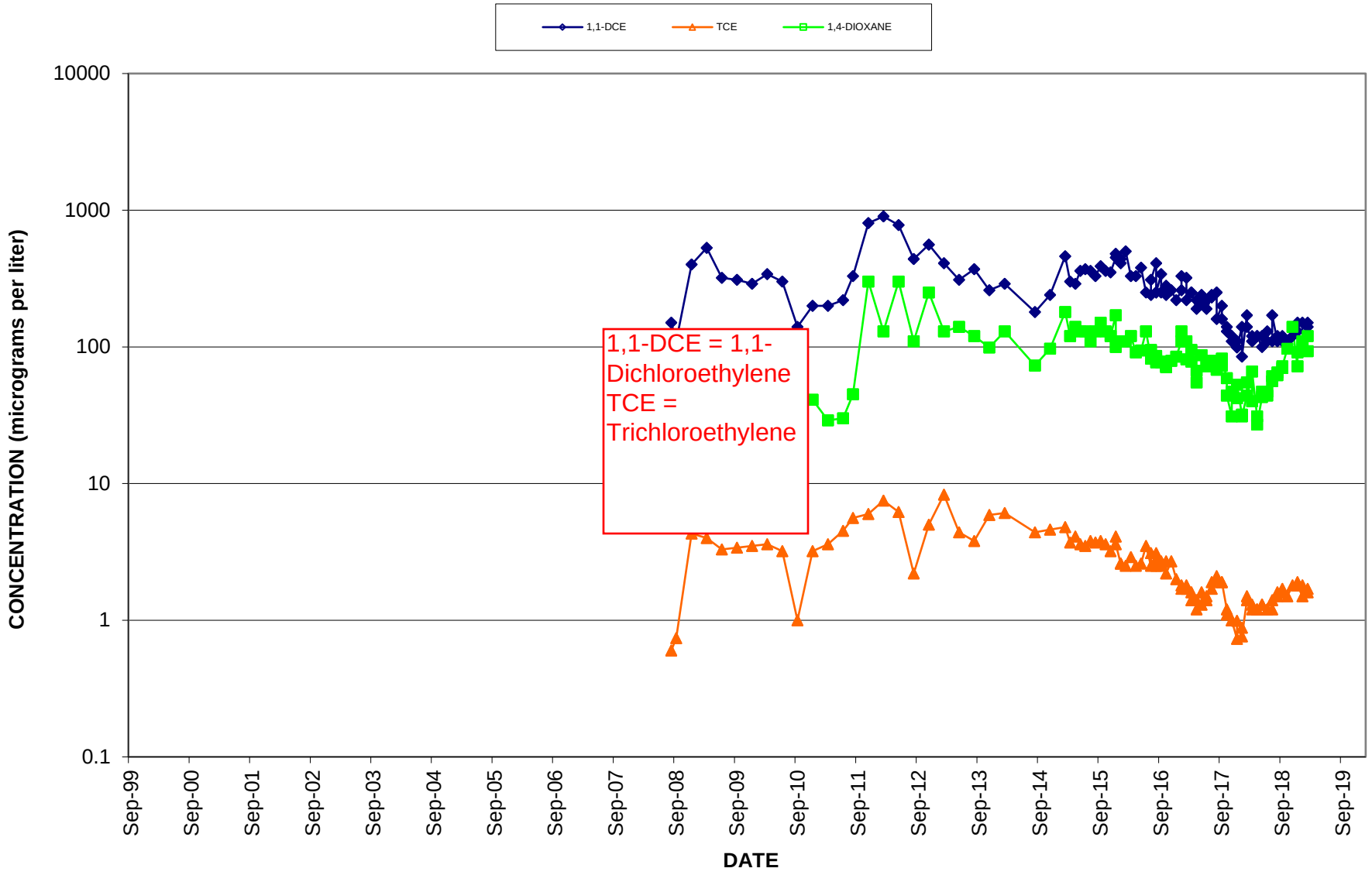
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-6: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-28



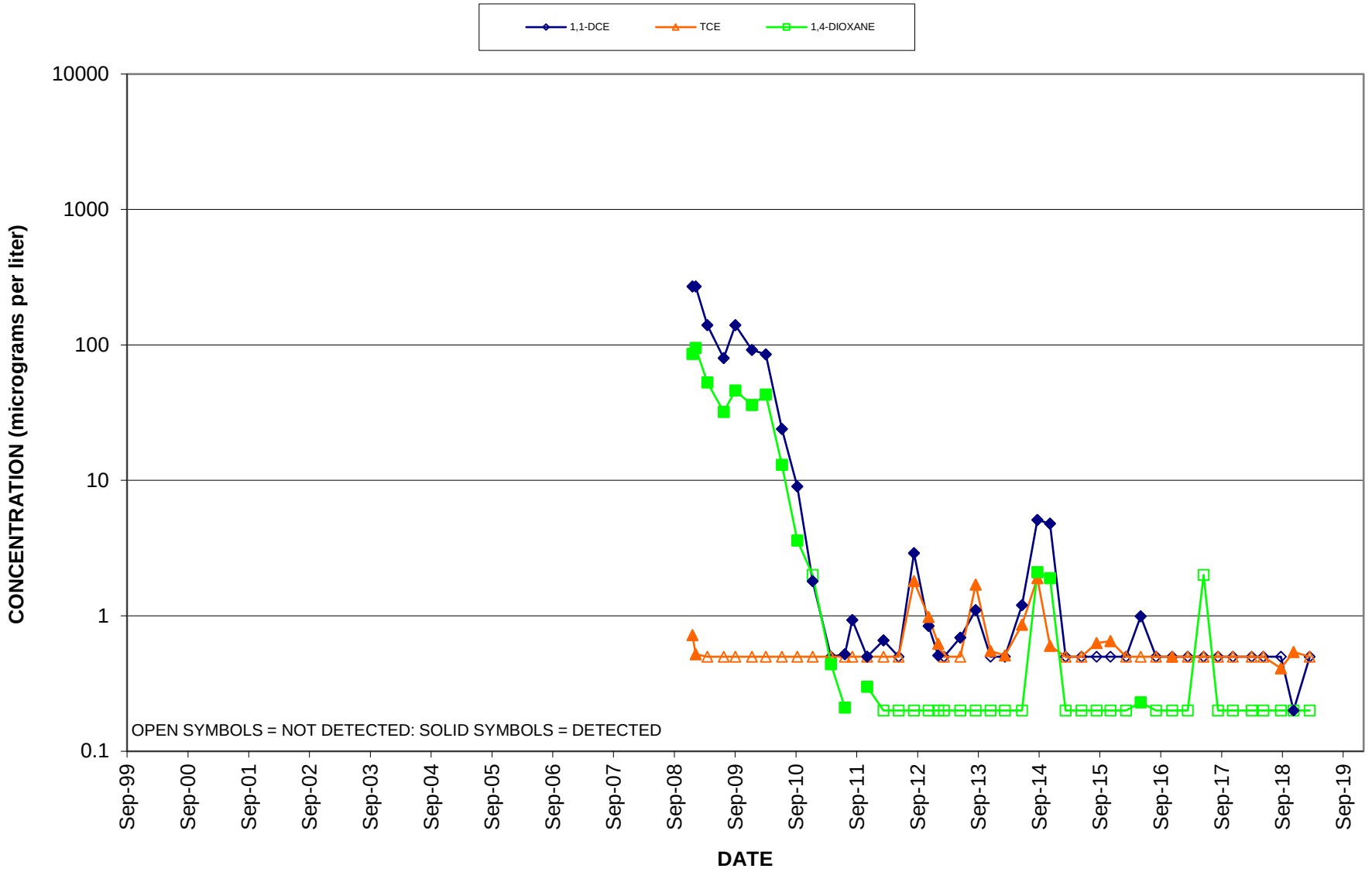
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-7: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-29



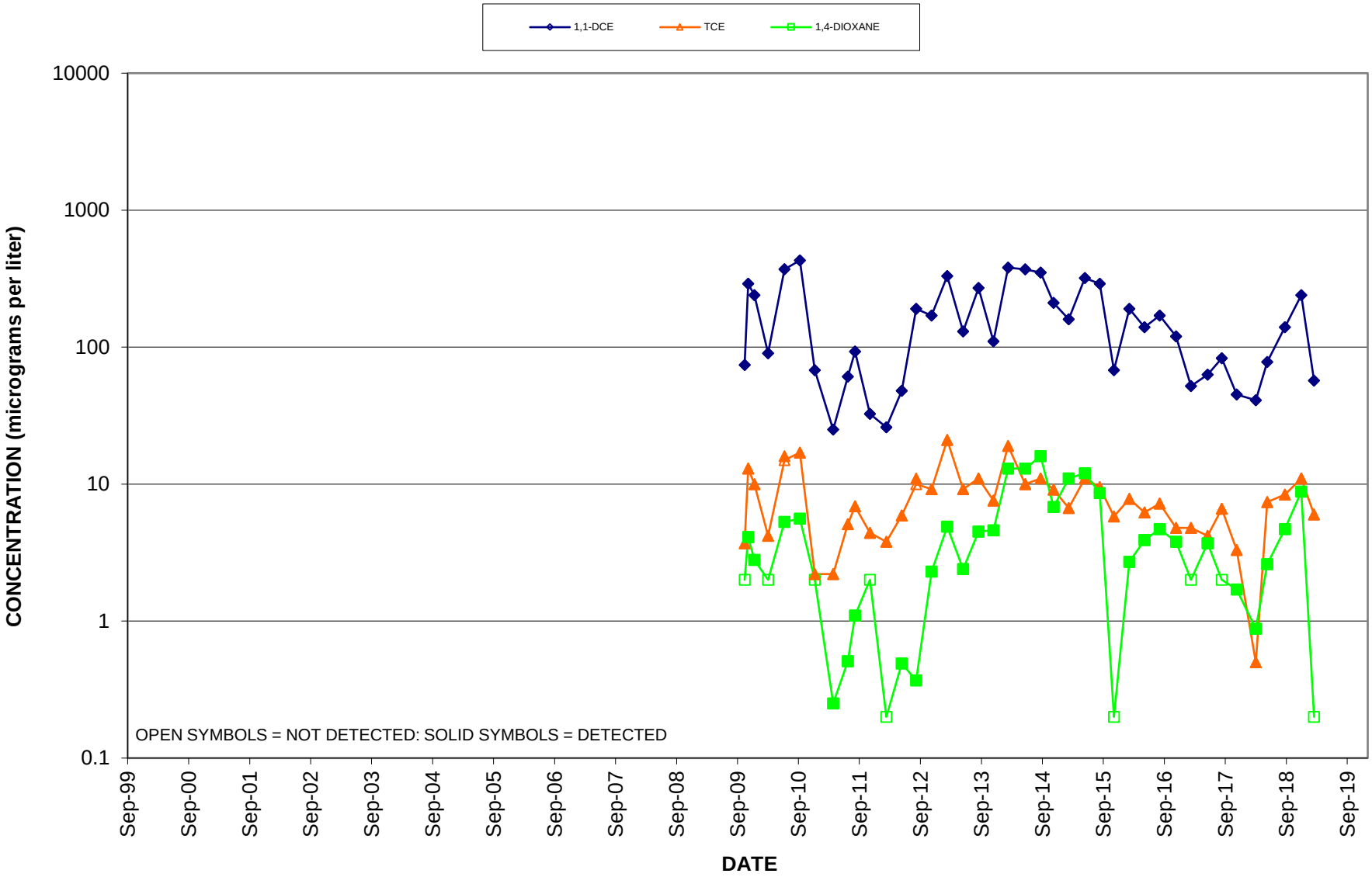
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-8: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-30A



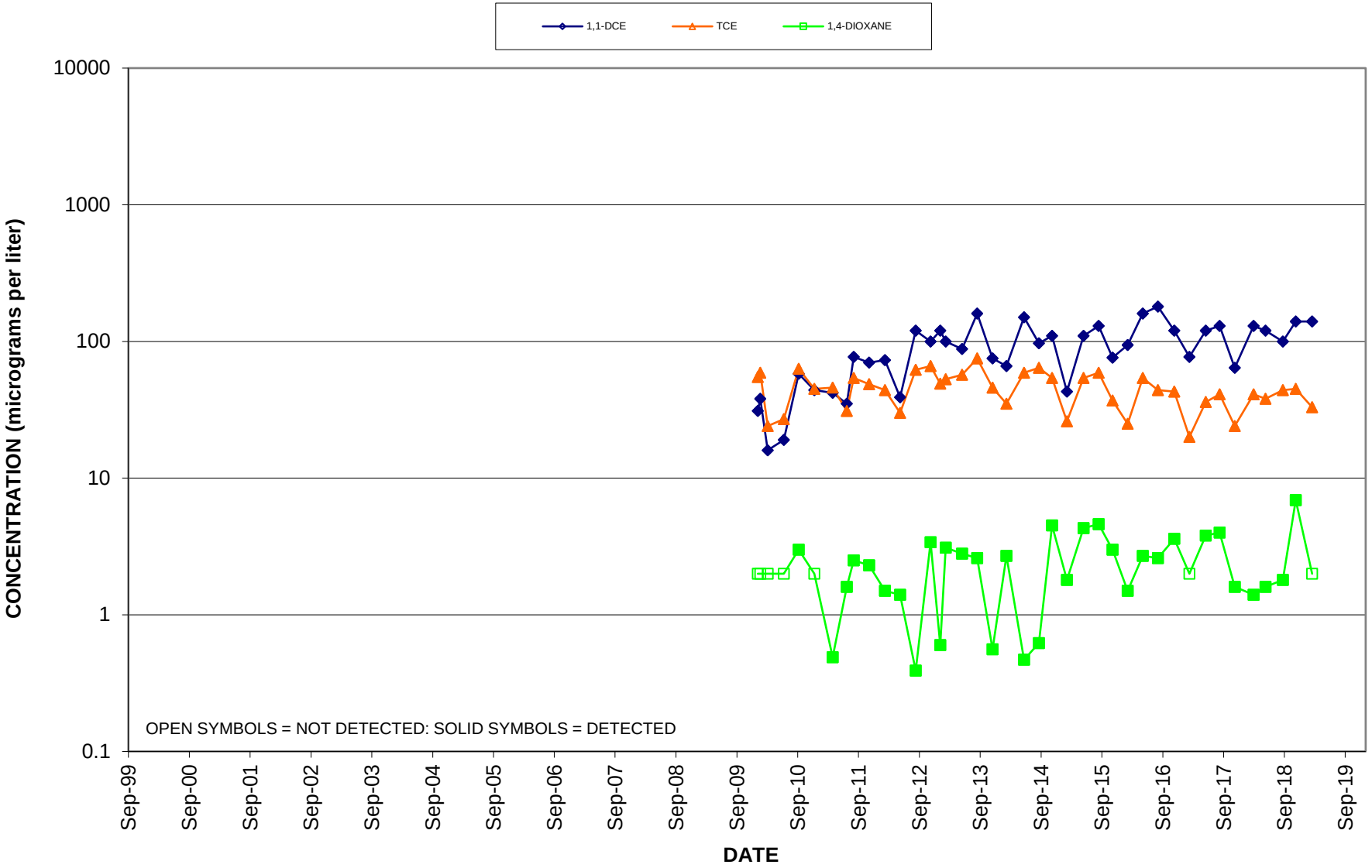
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-9: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-31



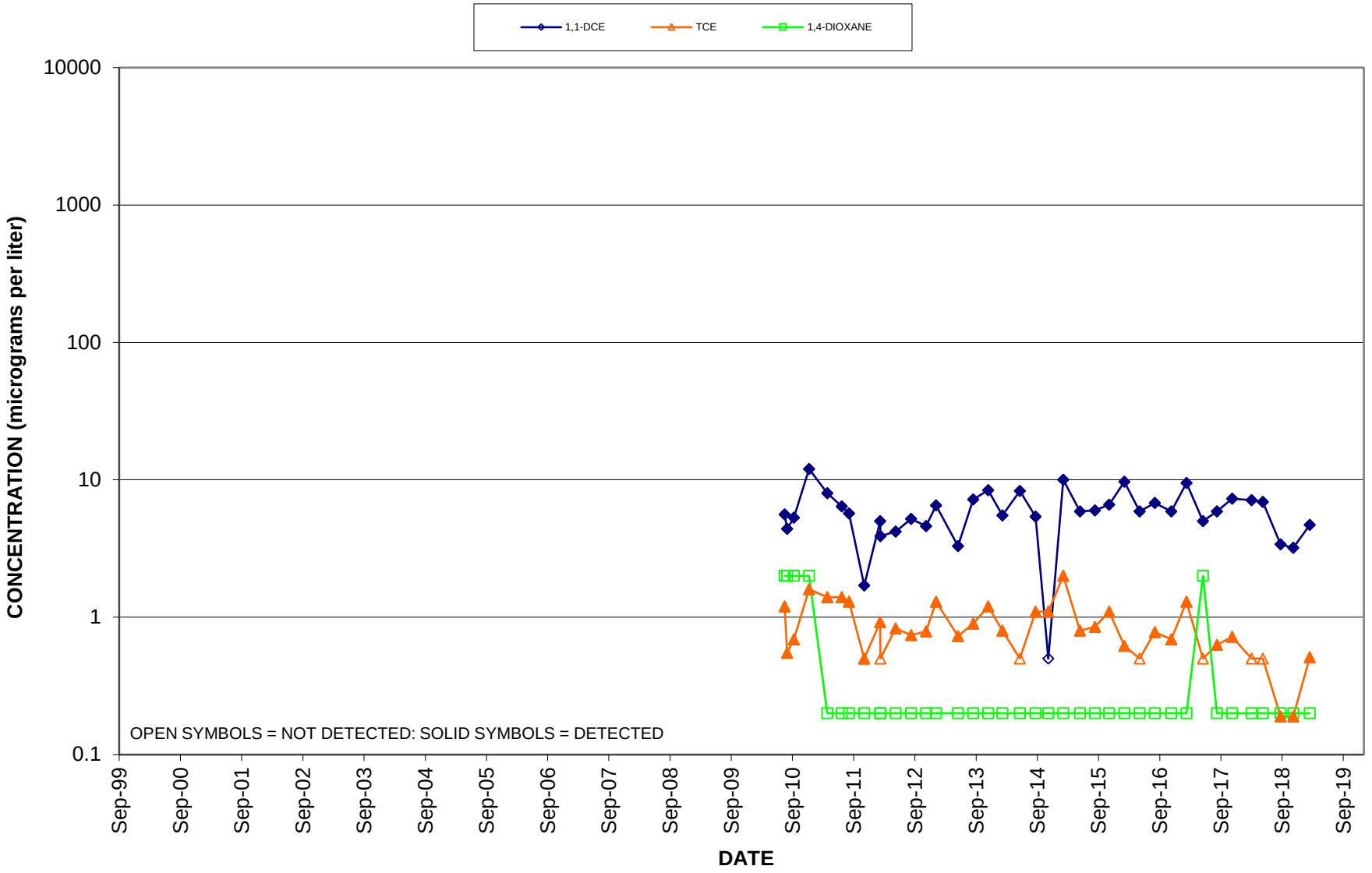
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-10: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-32B



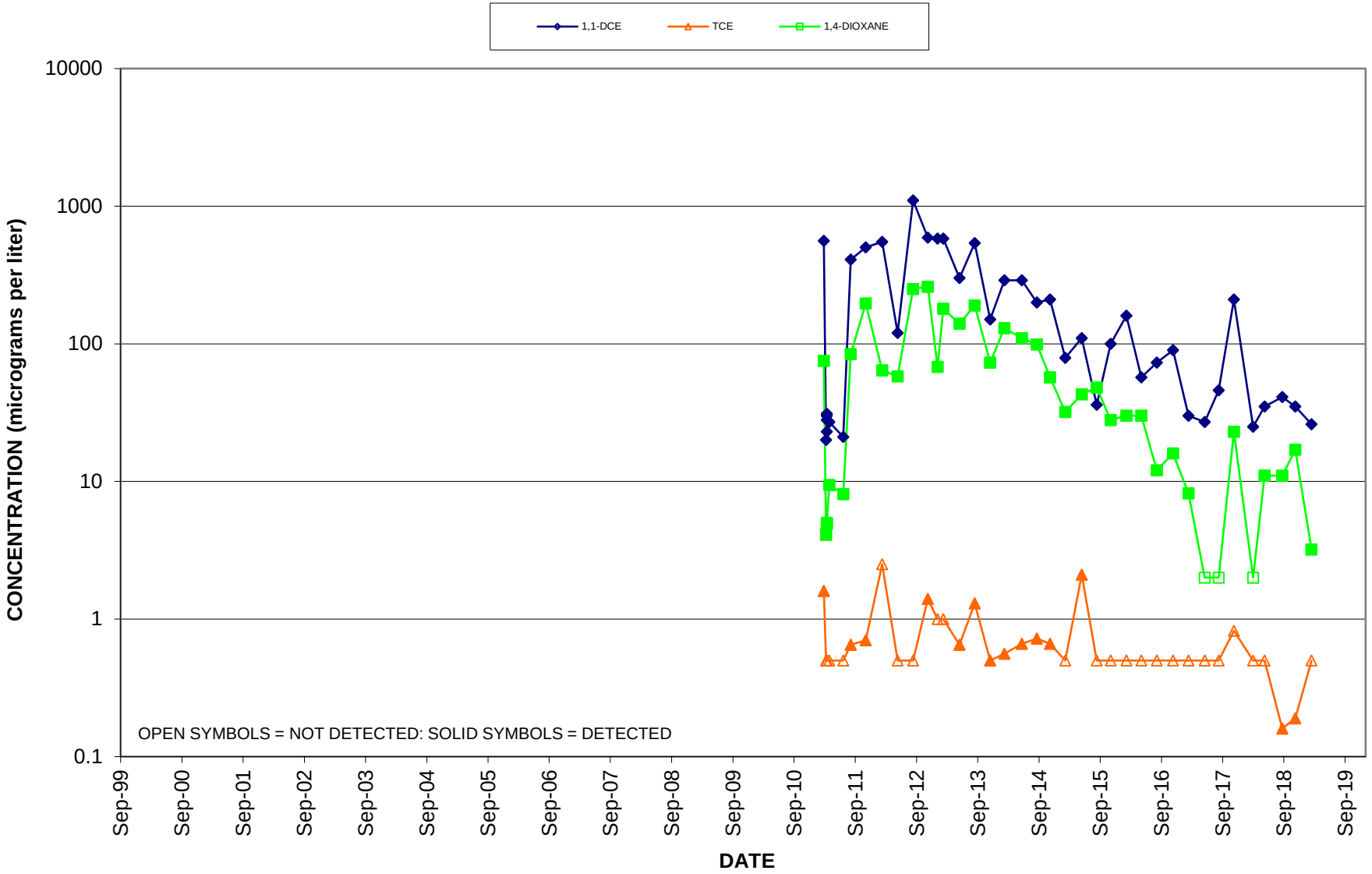
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-11: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-33



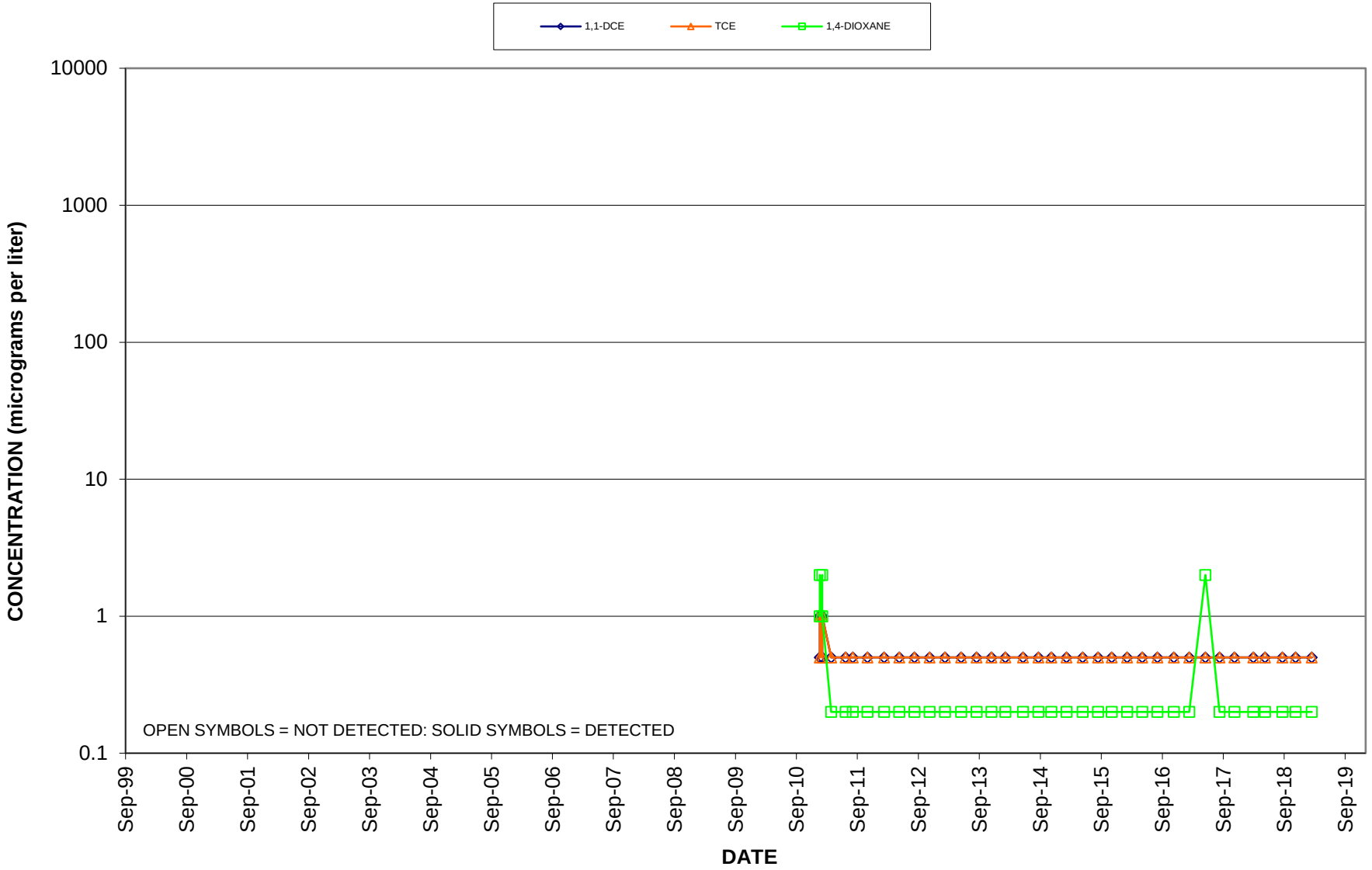
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-12: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-34B



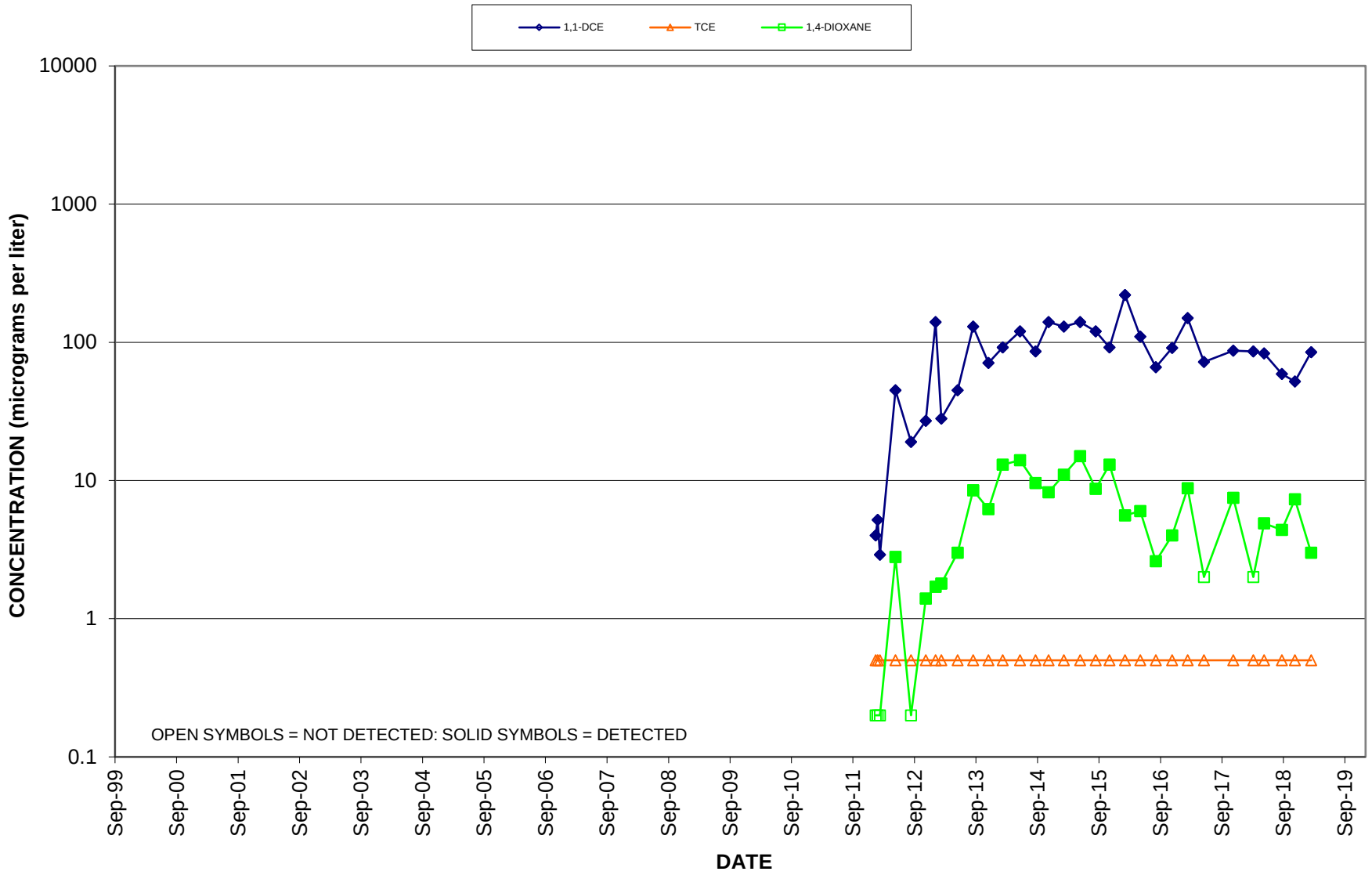
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-13: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-35C



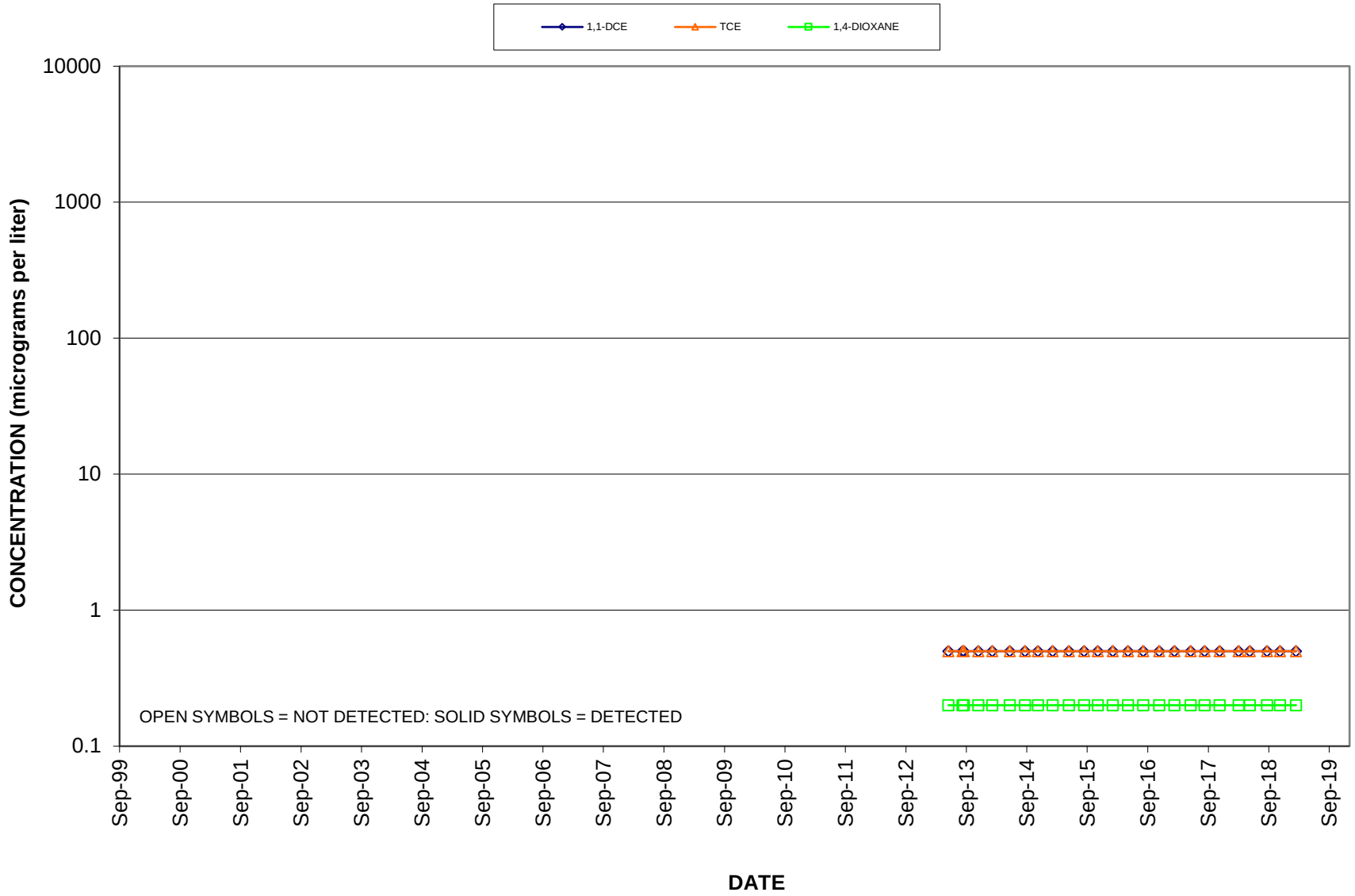
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-14: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-36



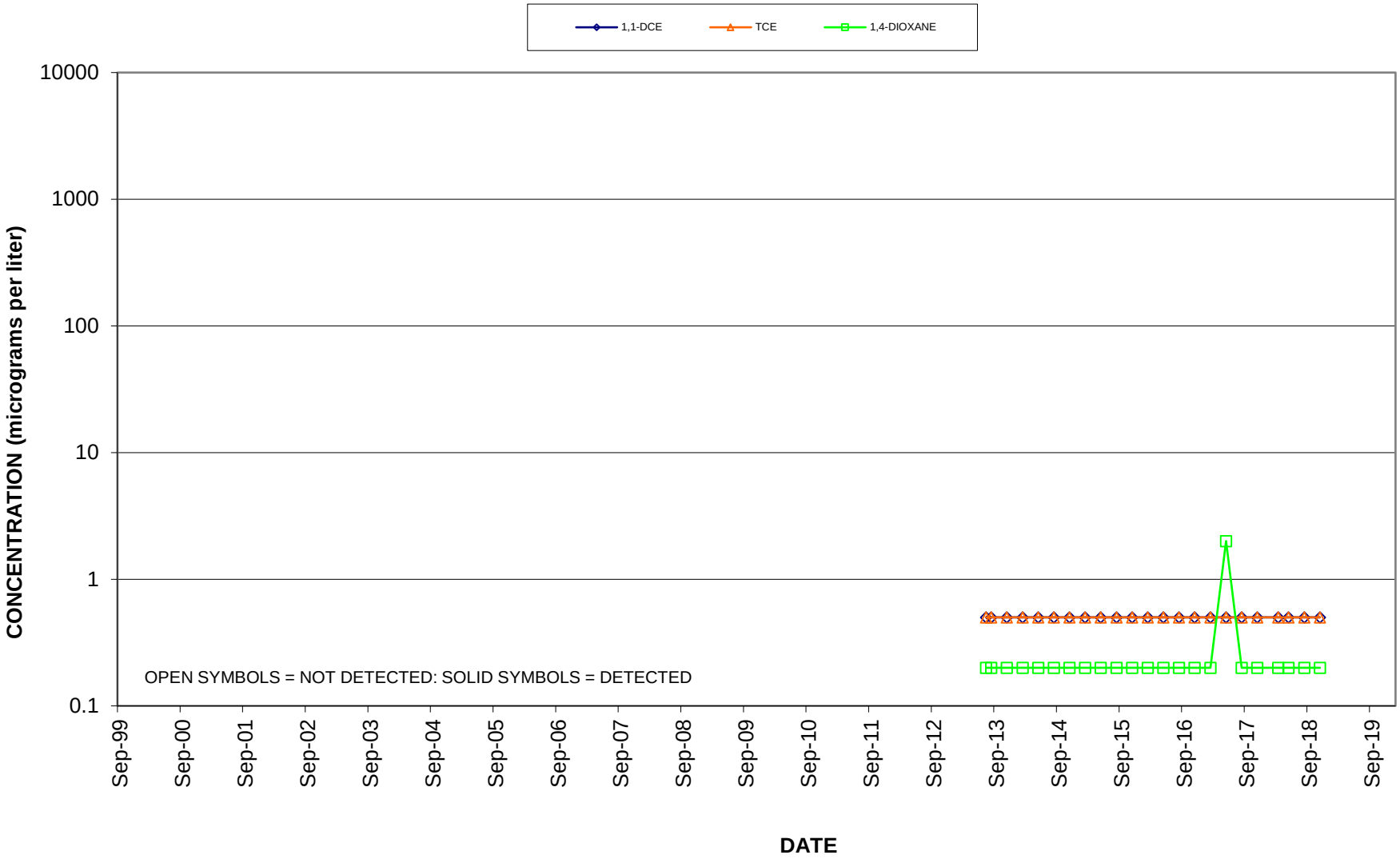
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-15: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-39



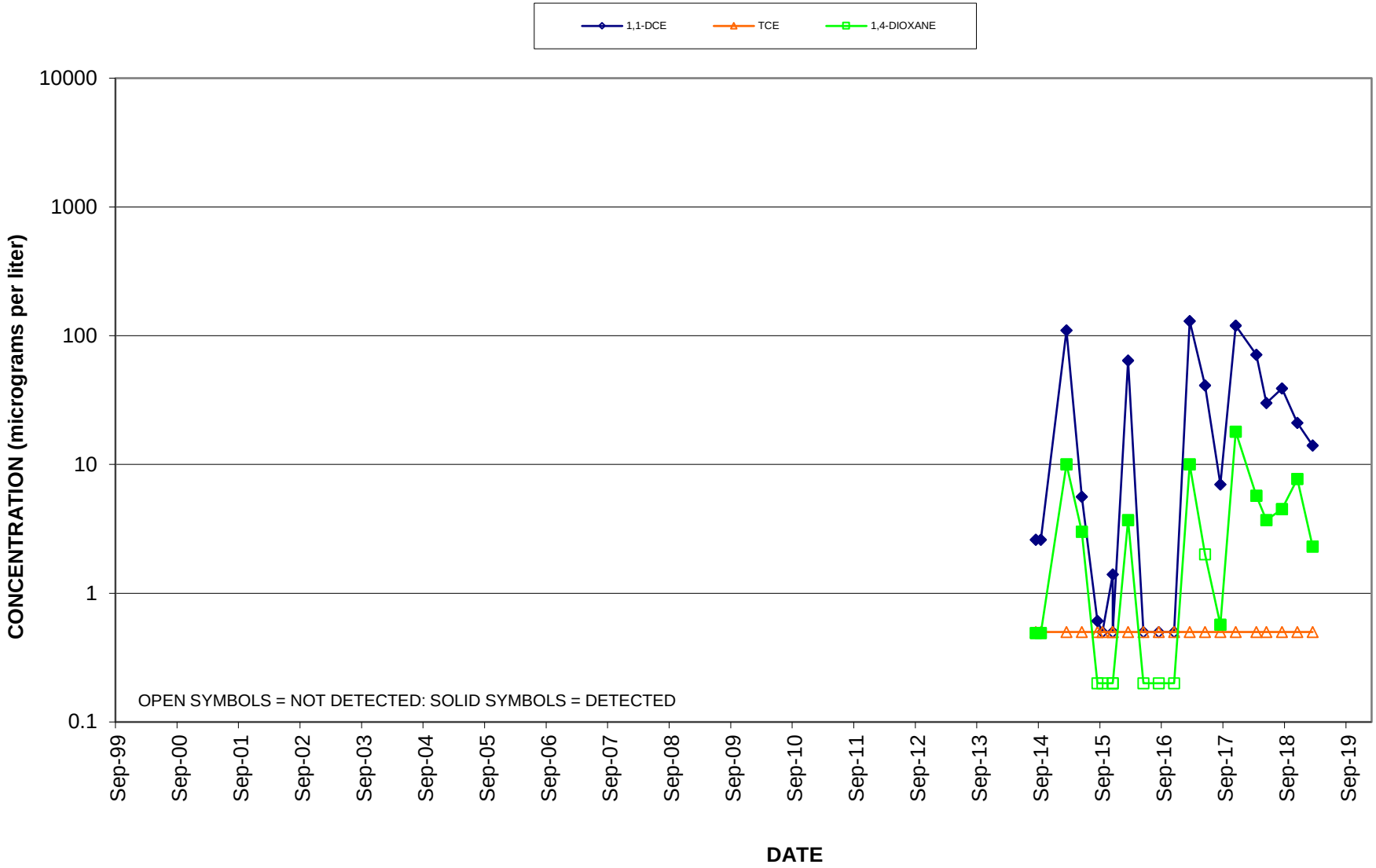
1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-16: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-40



1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene

FIGURE C-17: CONCENTRATIONS OF SELECT COMPOUNDS OF CONCERN IN GROUNDWATER, UNIT B, MW-41



1,1-DCE = 1,1-Dichloroethylene
TCE = Trichloroethylene