

**Pinellas County, Florida, Site
Environmental Restoration Project**

**Building 100 Environmental
Monitoring Semiannual Progress
Report for the
Young - Rainey STAR Center**

December 2017 through May 2018

June 2018



**U.S. DEPARTMENT OF
ENERGY**

Legacy
Management

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Appendix

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Abbreviations

amsl	above mean sea level (feet)
cDCE	<i>cis</i> -1,2-dichloroethene
COPC	contaminant of potential concern
CTL	cleanup target level
1,1-DCE	1,1-dichloroethene
dioxane	1,4-dioxane
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
EVO	emulsified vegetable oil
FAC	<i>Florida Administrative Code</i>
FDEP	Florida Department of Environmental Protection
MDL	method detection limit
µg/L	micrograms per liter
mg/L	milligrams per liter
RPD	relative percent difference
STAR Center	Young - Rainey Science, Technology, and Research Center
SWMU	solid-waste management unit
TCE	trichloroethene
TCOPCs	total contaminants of potential concern
tDCE	<i>trans</i> -1,2-dichloroethene
VC	vinyl chloride
VOCs	volatile organic compounds

Executive Summary

The Building 100 Area of the Pinellas County, Florida, Site was originally part of the Pinellas Plant, a former U.S. Department of Energy (DOE)-owned facility now owned by the Pinellas County Industrial Development Authority and known as the Young - Rainey Science, Technology, and Research (STAR) Center. Weapons research, development, and production were conducted at the plant until DOE completed its mission there in 1995. Groundwater at the site was impacted by chlorinated solvents as a result of onsite activities during DOE operations.

The STAR Center is now an active business park. Because the contaminant source areas are beneath the STAR Center's primary, 11-acre occupied building, the sources cannot be properly characterized or delineated without disrupting tenant operations. For this reason, DOE installed four stacked pairs of horizontal injection wells beneath the building in 2015 to perform bioinjection in the interpreted source areas. There have been two bioinjection events into these horizontal wells, in November 2015 and January–February 2017.

In addition to the horizontal injection events, DOE performed three bioinjection events using temporary vertical injection points for injection into the Building 100 Area downgradient dissolved-phase groundwater contaminant plumes. These events took place in October–November 2014, February 2015, and January–March 2017.

All of these bioinjection events consisted of injecting emulsified vegetable oil and the microorganism *Dehalococcoides mccartyi* into the subsurface to enhance naturally occurring biological degradation of the solvents. The result of these actions has been a significant reduction of contaminant concentrations in the offsite closure monitoring wells.

Specifically, the only remaining contaminants detected above their respective cleanup target levels (CTLs) are 1,4-dioxane, trichloroethene (TCE), *cis*-1,2-dichloroethene (cDCE), and vinyl chloride (VC). It is anticipated that TCE, cDCE and VC will continue to degrade and that concentrations will continue to decline. While closure and performance monitoring is ongoing, DOE will continue to pursue a conditional closure of the site under the State of Florida risk-based corrective action rules, pending implementation of restrictive covenants.

The contaminant trend graphs (provided in this report) indicate the following:

1. The injected microbial solution is reaching the target contaminant source areas and the downgradient dissolved-phase plume
2. The dechlorination process is proceeding as expected
3. The bioinjection corrective action appears to be successful at treating contamination in source areas beneath Building 100, as well as in the dissolved-phase plumes downgradient from the building

Performance monitoring of the enhanced bioinjection events will continue with the next sampling event in September 2018.

1.0 Introduction

The Young - Rainey Science, Technology, and Research (STAR) Center at the Pinellas County, Florida, Site is a former U.S. Department of Energy (DOE) facility constructed in the mid-1950s. The 96-acre STAR Center is in Largo, Florida, in the northeast quarter of Section 13, Township 30 South, Range 15 East (Figure 1). The property was sold to Pinellas County in 1995 and DOE cleaned out and vacated the buildings in 1997. While it was owned by DOE, the purpose of the site was to develop and manufacture components for the nation's nuclear weapons program. In 1987, the U.S. Environmental Protection Agency (EPA) performed a Resource Conservation and Recovery Act Facility Assessment (EPA 1988) at the site to gather information about potential releases of hazardous materials.

In February of 1990, EPA issued a Hazardous and Solid Waste Amendments permit to DOE. The permit required DOE to investigate and perform remediation activities in those areas designated as solid-waste management units (SWMUs) that were contaminated by hazardous materials resulting from DOE operations. A total of 17 SWMUs were identified and investigated at the STAR Center. By 1997, 13 of the 17 SWMUs had been remediated or approved for no further action.

More recently, the Florida Department of Environmental Protection (FDEP) executed three Declaration of Restricted Covenants with Pinellas County for the Northeast Site, the Wastewater Neutralization Area, and the Building 100 Area, and with the owners of three impacted offsite properties: Pinellas County School Board, Bank of Tampa, and BCH-1, LTD. FDEP subsequently executed Conditional Site Rehabilitation Completion Orders for the Northeast Site and the Wastewater Neutralization Area on July 27, 2016, stating that no further action is required for those SWMUs. The Building 100 Area (a combination of the Old Drum Storage Site and the Building 100-Industrial Drain Leaks SWMUs) comprises the only two active SWMUs at the STAR Center (Figure 2). This document serves as the semiannual progress report for the Building 100 Area SWMUs by providing the results of recent monitoring activities and a summary of ongoing and projected work.

The STAR Center is owned by the Pinellas County Industrial Development Authority, but DOE is responsible for remediation activities at the site. Additional background information for the site is contained in the *Long-Term Surveillance and Maintenance Plan for the Pinellas Site* (DOE 2017).

1.1 Building 100 Area Background

This section describes the most recent work at the Building 100 Area. Additional background information for the Building 100 Area is contained in the *Long-Term Surveillance and Maintenance Plan for the Pinellas Site* (DOE 2017).

The *Pinellas County, Florida, Site, Building 100 Area Site Assessment Report* (DOE 2012) summarized the results of contaminant plume delineation work conducted at the Building 100 Area and the adjacent properties from 2007 to 2012. The *Interim Corrective Measure Work Plan for Source and Plume Treatment at the Building 100 Area* (DOE 2014) was submitted to FDEP on October 2, 2014. That document described the approach for implementing bioinjection (defined as injection of emulsified vegetable oil [EVO] and the microorganism *Dehalococcoides*

mccartyi) at the Building 100 Area. Bioinjection was conducted (1) on STAR Center property in October and November 2014, (2) on three offsite properties in February 2015, and (3) using eight horizontal wells beneath Building 100 in November 2015.

The *Addendum to the Interim Corrective Measure Work Plan for Source and Plume Treatment at the Building 100 Area* (DOE 2016), which was submitted to FDEP on August 30, 2016, described the approach for another bioinjection event. Bioinjection was conducted on STAR Center property, including the horizontal wells beneath the building, in January and February 2017, and on four offsite properties in February and March 2017. Monitoring to evaluate the performance of these actions, in the form of monitoring well sampling, is ongoing.

1.2 Site Update

The following tasks were accomplished during the December 2017 and through May 2018 period:

- The Building 100 semiannual sampling event was conducted February 27–March 8, 2018. This event consisted of collecting groundwater samples from 96 monitoring wells at the Building 100 Area. Water-level measurements were obtained from all accessible monitoring wells and ponds on February 28, 2018.
- Results of the semiannual monitoring were reported (in this document).

2.0 Water-Level Elevations

Depth-to-water measurements were taken at all accessible monitoring wells, piezometers, and ponds at the STAR Center on February 28, 2018. The water levels were measured with an electronic water-level indicator or directly from a staff gauge. Groundwater elevation data, measured in feet above mean sea level (amsl) are listed in Table 1.

Groundwater and surface-water elevations were used to construct sitewide groundwater contour maps of the shallow and deep surficial aquifers (Plates 1 and 2, respectively). Individual contour maps were also constructed for the shallow and deep surficial aquifers at the Building 100 Area (Figures 3 and 4).

For the past several years, shallow groundwater beneath Building 100 is observed to flow to the southeast under a very slight gradient, and this flow pattern was observed again in March 2018 (Figure 3). A similar flow pattern was observed in the deep surficial aquifer (Figure 4). The hydraulic gradient in the Building 100 Area in March 2018 was about 0.002 foot per foot onsite and about 0.004 foot per foot offsite to the south. On the basis of calculations using Darcy's law, along with approximations of 1 foot per day for hydraulic conductivity and 0.3 for effective porosity, groundwater velocity in this area is estimated to be about 2.4 feet per year onsite and about 4.9 feet per year offsite to the south. Although calculations indicate a low to moderate groundwater flow velocity, the distance that groundwater contaminants have traveled from known source areas, and the shape of the groundwater plumes to the east and south from Building 100, indicate the presence of preferential flow paths with significantly higher flow velocities within the plumes.

Surface water elevations were recorded in February 2018 from the South, Southwest, and West Ponds, the Belcher Road Pond, and Pond 5 (Table 2). All the ponds are hydraulically connected to the shallow surficial aquifer system (Plate 1).

3.0 Groundwater Sampling

3.1 Work Performed

Groundwater samples were collected from 96 monitoring wells at the Building 100 Area during the March 2018 semiannual sampling event at the STAR Center (onsite and offsite). Analytical results are discussed in Section 4.0.

Three wells that were scheduled to be sampled (12-0586-3, -0587-3, and -S68D) were not sampled because these wells remained heavily impacted by injected EVO, and therefore the water samples from these wells would not have been representative of surficial aquifer groundwater. In the impacted purge water, the oil appears as a milky fluid when fresh or as a cloudy, dark fluid when weathered.

All samples were collected in accordance with the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites* (LMS/PRO/S04351), using FDEP procedures. All monitoring wells were micropurged using high-density polyethylene tubing or dedicated Teflon tubing and a peristaltic pump. Samples were collected when field measurements stabilized.

Table 3 lists the March 2018 field measurements of temperature, specific conductance, turbidity, pH, oxidation–reduction potential, and dissolved oxygen that were recorded at the time the samples were collected. Measurements were made using a calibrated multiparameter meter with a flow cell, and turbidity was measured using a nephelometer. A full set of field parameters could not be measured in eight wells due to interference from the injected EVO. For these eight wells, samples were collected when water-level, turbidity, and purge-volume criteria were met. The laboratory results were checked for quality assurance/quality control and all analytical data are acceptable as qualified (see Section 3.2).

All samples were submitted to TestAmerica Laboratories in Denver, Colorado, for analysis. TestAmerica Denver is accredited by the Florida Department of Health in accordance with the National Environmental Laboratory Accreditation Conference (certification number E87667). Volatile organic compounds (VOCs) were analyzed in these samples using EPA SW-846 Test Method 8260B (EPA SW-846), and 1,4-dioxane (dioxane) was analyzed in the same samples using EPA method 8260B SIM. Laboratory reports for March 2018 are provided in Appendix A.

3.2 Quality Assurance/Quality Control

The results from TestAmerica were checked for quality assurance/quality control through field and laboratory duplicate samples, trip blanks, and equipment blanks. In addition, a data-validation software module for identifying and tracking anomalous groundwater data was used to generate a report of analytical results that fall outside of historical maximum or

minimum values. The module identified 12 analytical results as potential outliers. There were no errors noted during the review of these data during the data-validation process. Therefore, all analytical results are acceptable as qualified.

As specified in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites*, field duplicate samples should be collected at a frequency of one duplicate for every 20 or fewer samples. During the March 2018 event, 96 samples and five duplicates were collected, so the criterion was met. For wells where duplicates were collected, the duplicate results were compared to the corresponding well results, and the relative percent differences (RPDs) were calculated (Table 4). The duplicate results met the EPA-recommended criteria, demonstrating acceptable overall precision for all analytes with one exception. The result for 1,1-dichloroethene (1,1-DCE) from well 12-0584-2 did not meet the acceptance criteria. Thus, the result for 1,1-DCE from this well is J-qualified as an estimated value.

One trip blank contained two Building 100 Area contaminants of potential concern (COPCs), *trans*-1,2-dichloroethene (tDCE) and vinyl chloride (VC). These results were examined closely during the data-validation process, but no anomalies were found. Therefore, these detections were not used to qualify the monitoring well sample results.

The equipment blank collected on a roll of non-dedicated tubing used to sample contained one COPC, dioxane, at a concentration of 0.39 microgram per liter ($\mu\text{g/L}$). Therefore, analytical results for dioxane that are greater than the method detection limit (MDL) but less than 5 times the blank concentration (i.e., 1.95 $\mu\text{g/L}$) are qualified with a “J” flag as estimated values. The dioxane data are acceptable as qualified.

4.0 Groundwater Analytical Results

While older site documents have compared groundwater contaminant concentrations to drinking water standards, those standards are not the applicable default CTLs for evaluating site remediation under the State of Florida’s risk-based corrective action regulations. On the basis of a comprehensive review of background data for the site (DOE 2003), it was determined that the shallow groundwater in the site vicinity is naturally elevated in aluminum and iron at levels far exceeding Florida’s “Drinking Water Standards, Monitoring, and Reporting” (Chapter 62-550 *Florida Administrative Code* [FAC]). Specifically, the average background concentration of 1.1 milligrams per liter (mg/L) for aluminum exceeds the 0.2 mg/L secondary standard, and the average background concentration for iron of 9.3 mg/L exceeds the 0.3 mg/L secondary standard. The ambient shallow groundwater in the area is therefore designated as “poor quality” as defined in 62-780.200(35) FAC. Thus, the applicable groundwater CTLs are those for groundwater of “low yield/poor quality” provided in Table 1 of Chapter 62-777 FAC (i.e., onsite CTLs are a factor of 10 higher than offsite CTLs). FAC rules stipulate use of the CTLs for poor water quality on source property and maintain that default CTLs apply offsite.

The Building 100 Area COPCs are trichloroethene (TCE), *cis*-1,2-dichloroethene (cDCE), tDCE, 1,1-DCE, VC, and dioxane. Figures 5–13 are contaminant concentration and interpreted plume maps for the Building 100 Area for March 2018. Figures 5 and 6 show the total COPCs (TCOPCs) concentrations. The TCOPCs value is the sum of the individual COPC concentrations for each well. Figures 7–13 show the concentrations for individual COPCs. Concentration maps

for tDCE and 1,1-DCE are not provided because these COPCs rarely exceed the CTL. COPC concentrations since September 2014 are listed in Table 5.

5.0 Data Interpretation and Performance Monitoring

As described in Section 1.1, the injection of EVO and the microorganism *Dehalococcoides mccartyi* was conducted in the Building 100 Area in 2014 (onsite), 2015 (onsite and offsite), and 2017 (onsite and offsite). Performance monitoring of these enhanced bioremediation events started with the March 2015 sampling event and is ongoing. Trend (i.e., time-concentration) plots for nine monitoring wells are shown as Figures 14–23.

Figures 14–19 are trend plots for six wells within or near the interpreted boundary of the south plume. Well 12-0585-2 (Figure 14) shows increases in every contaminant from September 2017 to March 2018, with TCE increasing from 430 µg/L to 1600 µg/L and VC increasing from 1900 µg/L to 2300 µg/L. This increase could be the result of the contaminant plume migrating from the center of the plume near well 12-S35B after the installation of horizontal wells beneath Building 100 in the summer of 2015 and subsequent bioinjection into the horizontal wells in November 2015 and January-February 2017. Well 12-S35B showed major decreases from the last sampling event (discussed later in this section). Well 12-0584-2 (Figure 15), which is next to 12-0585-2, showed an increase in cDCE from 540 µg/L to 2000 µg/L and in VC from 410 µg/L to 590 µg/L. The concentrations in well 12-0585-3 (Figure 16) remained essentially unchanged. Well 12-0587-2 (Figure 17) showed an increase in cDCE from 14 µg/L to 70 µg/L and an increase in VC from 16 µg/L to 540 µg/L, which could also be caused by contaminant migration following bioinjection activities. Offsite well 12-0572-2 (Figure 18) showed a decrease in VC concentration from 8.3 µg/L to less than 1 µg/L, thus 12-0572 is no longer located within the interpreted VC plume (Figure 11). Well 12-0574-2 (Figure 19), near the distal end of the south plume (Figure 6), showed a major decrease in the TCOPC concentration in March 2018 (49.91 µg/L) after a decrease in September 2017 (317.7 µg/L) following increases for seven consecutive sampling events dating back to September 2014 (Table 5). VC in this well decreased from 71 µg/L in September 2017 to 46 µg/L in March 2018, and cDCE decreased from 230 µg/L to less than 1 µg/L.

Figures 20–22 are trend plots for three wells near the centerline of the east plume. Well 12-0580-2 (Figure 20) showed a decline in VC concentration from 150 µg/L to 89 µg/L. Well 12-0582-2 (Figure 21) also showed continued decreasing concentrations in March 2018 following the latest bioinjection event. Well 12-0576-2 (Figure 22) showed slight increases in cDCE and VC from the last sample event. Both 12-0582-2 and 12-0576-2 showed declines in dioxane concentrations.

Figure 23 is a trend plot for well 12-S35B, which is located inside Building 100 (Figure 5) and has historically had the highest VOC concentrations at the site. TCE and cDCE concentrations spiked in September 2017 at 95,000 µg/L and 68,000 µg/L, respectively. These peak concentrations followed the second bioinjection into the horizontal wells beneath Building 100 in January-February 2017. The March 2018 concentrations decreased substantially to 16,000 µg/L (TCE) and 17,000 µg/L (cDCE). The remaining COPCs also decreased in March 2018.

Using the “1% of solubility” rule of thumb (EPA 1992), the September 2017 TCE concentration of 95,000 µg/L indicated the potential presence of the compound as a dense nonaqueous phase liquid near well 12-S35B. Such increases in individual contaminant concentrations are typical following injection activities as a result of both physical displacement of the contaminant mass by the injection fluids and the increased biological activity by a larger microbial population interacting with the displaced mass. The concentration peaks observed in September 2017 followed by the substantial declines in March 2018 indicate that natural biodegradation of contaminants is actively taking place following bioinjections.

The contaminant trend graphs (Figures 14–23) indicate the following:

1. The injected microbial solution is reaching the target contaminant source areas and the downgradient dissolved-phase plume.
2. Dechlorination is proceeding as expected.
3. The corrective action (bioinjection) appears to be successful at treating contamination in source areas beneath Building 100, as well as in the dissolved-phase plume downgradient from the building.

Performance monitoring of the enhanced bioinjection activities will continue with the next sampling event in September 2018.

6.0 Upcoming Tasks

The following tasks are planned for June through November 2018:

- Annual well inspections will be performed in August 2018.
- The semiannual sampling event will be conducted in September 2018.

7.0 References

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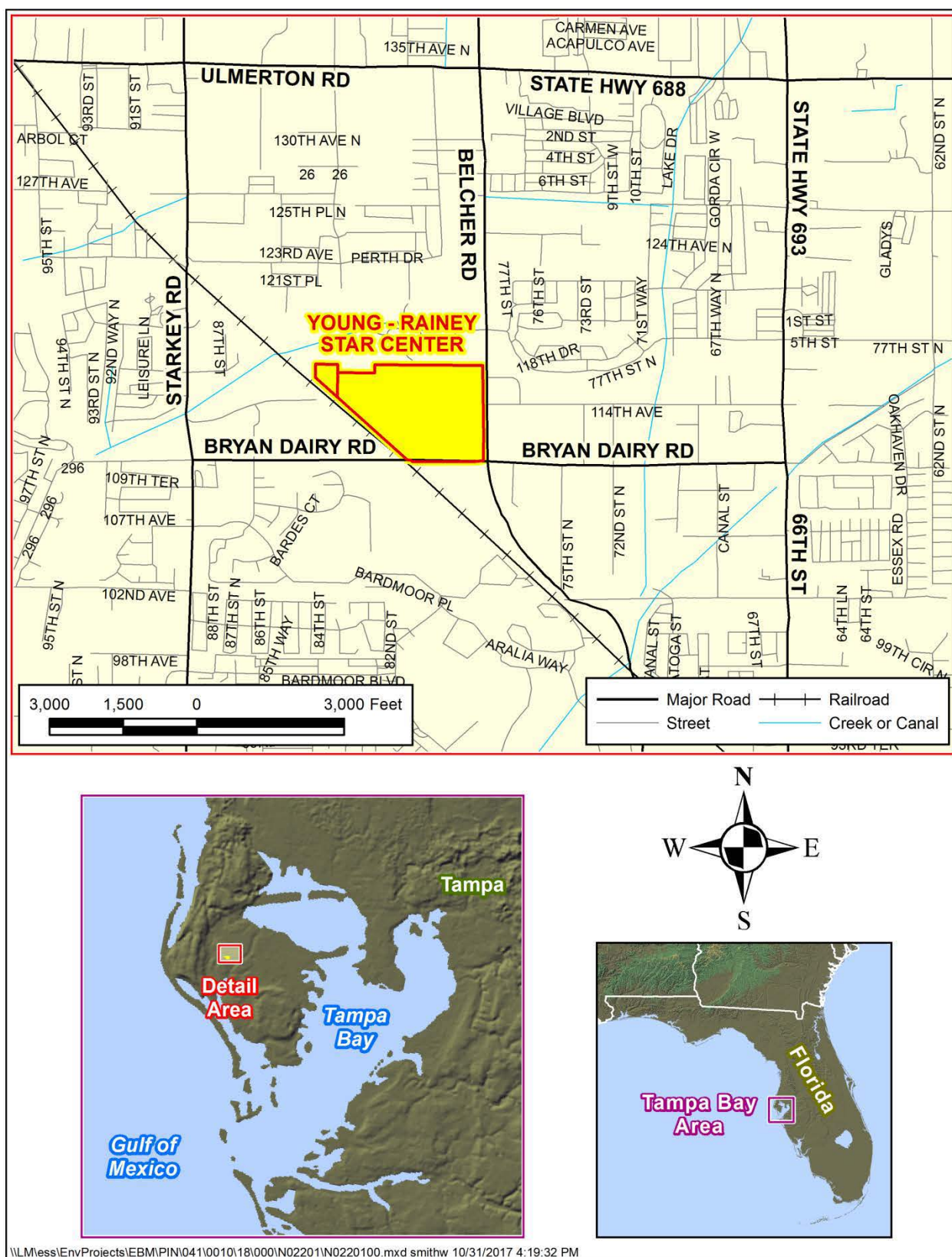
EPA (U.S. Environmental Protection Agency), SW-846. Test Method 8260B, “Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS),” from *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, EPA publication SW-846, continually updated.

FAC 62-550. “Drinking Water Standards, Monitoring, and Reporting,” *Florida Administrative Code*.

FAC 62-777. “Contaminant Cleanup Target Levels,” *Florida Administrative Code*.

FAC 62-780. “Contaminated Site Cleanup Criteria,” *Florida Administrative Code*.

Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites, LMS/PRO/S04351, continually updated, prepared by Navarro Research and Engineering, Inc., for the U.S. Department of Energy Office of Legacy Management.



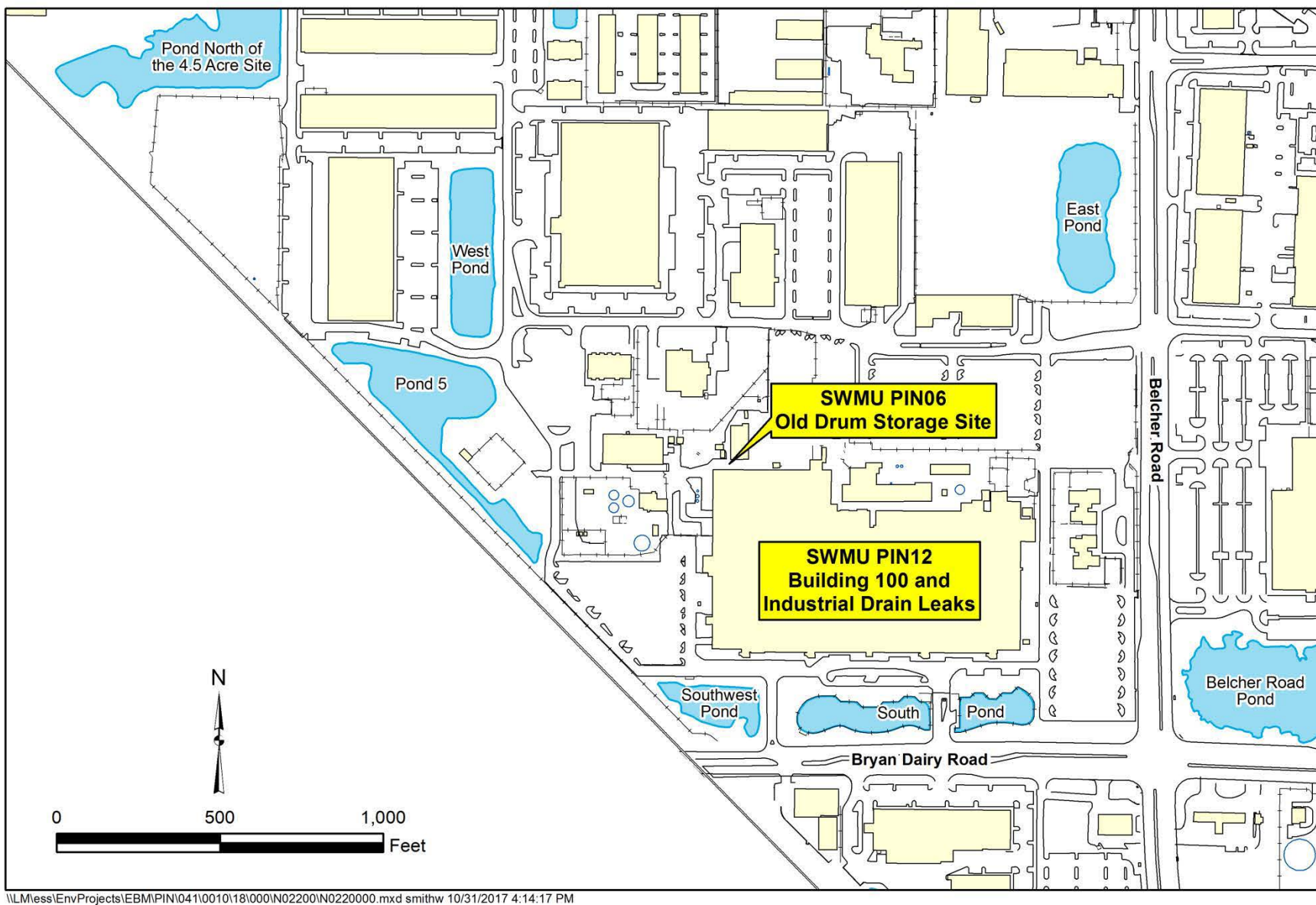
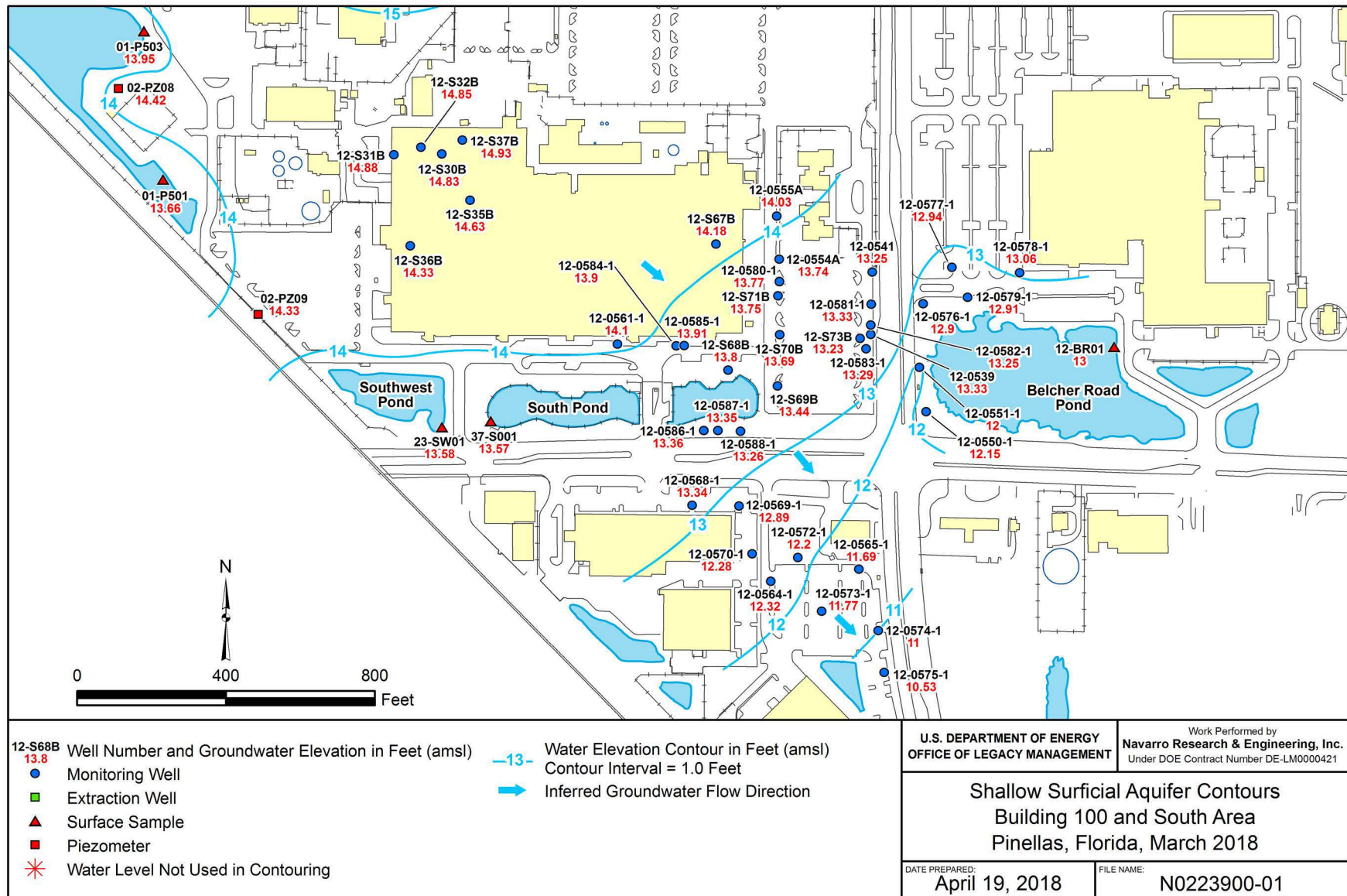


Figure 2. Location of STAR Center Solid-Waste Management Units



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Figure 3. Building 100 Area Shallow Surficial Aquifer Flow, March 2018

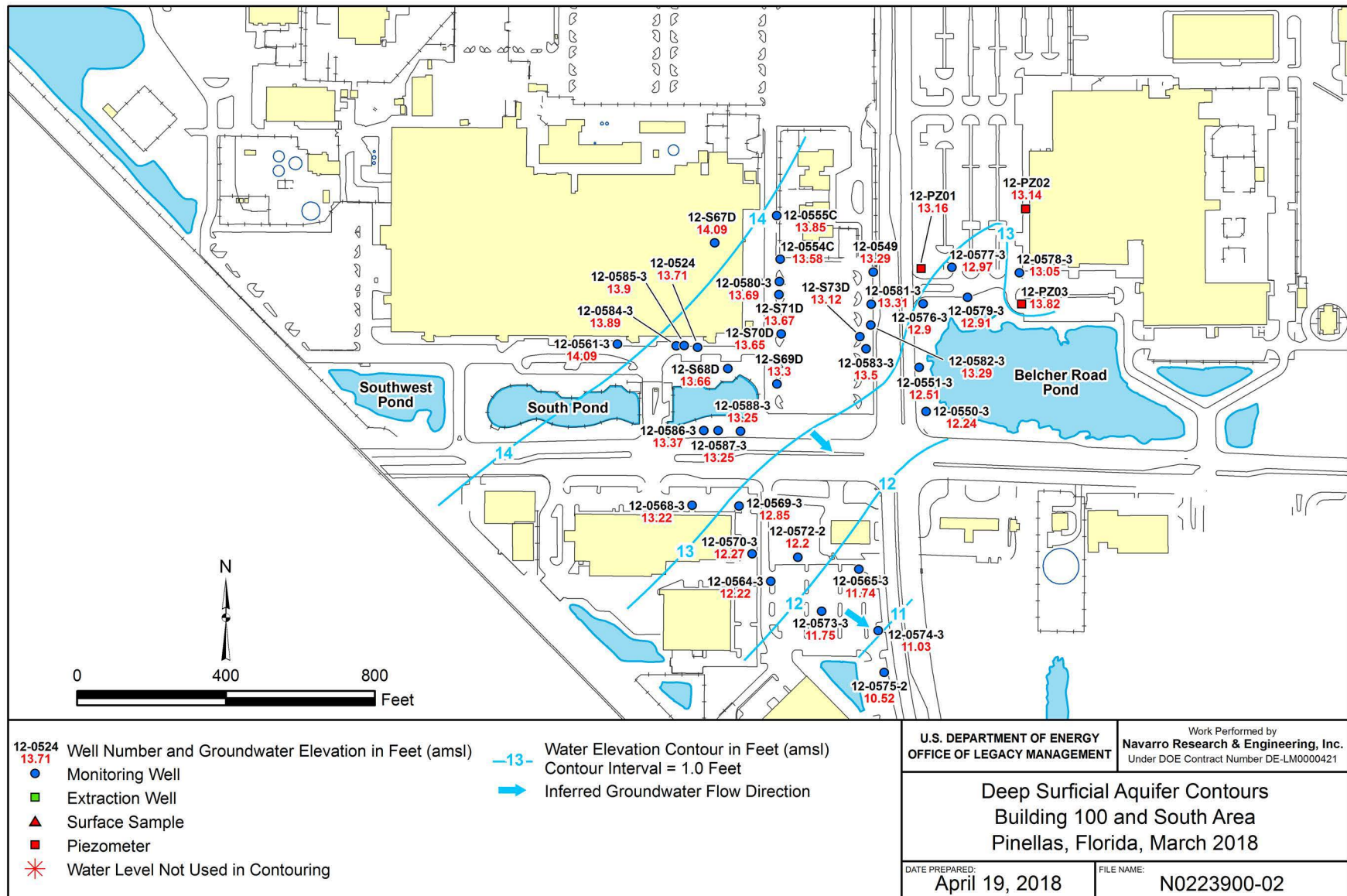


Figure 4. Building 100 Area Deep Surficial Aquifer Flow, March 2018

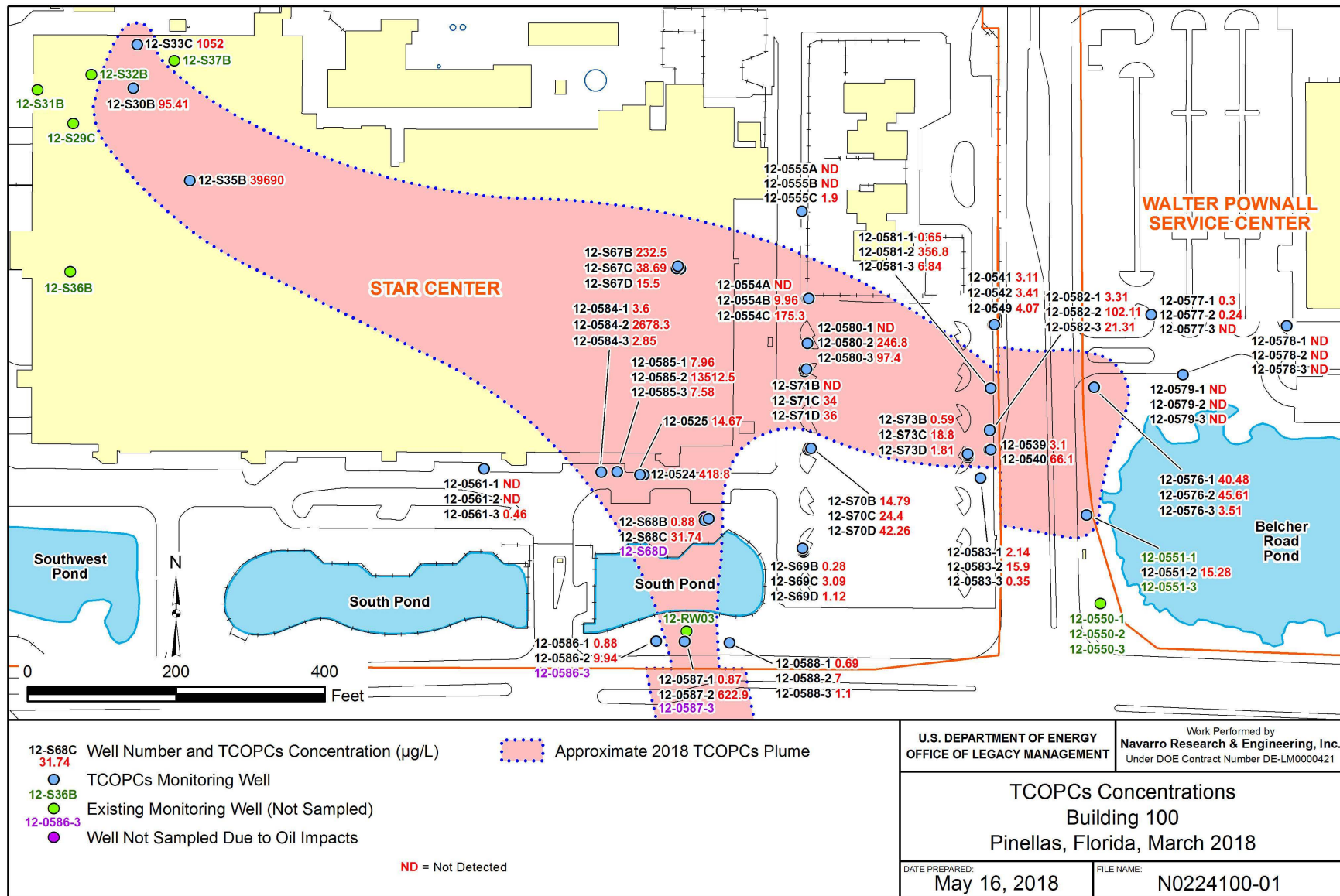
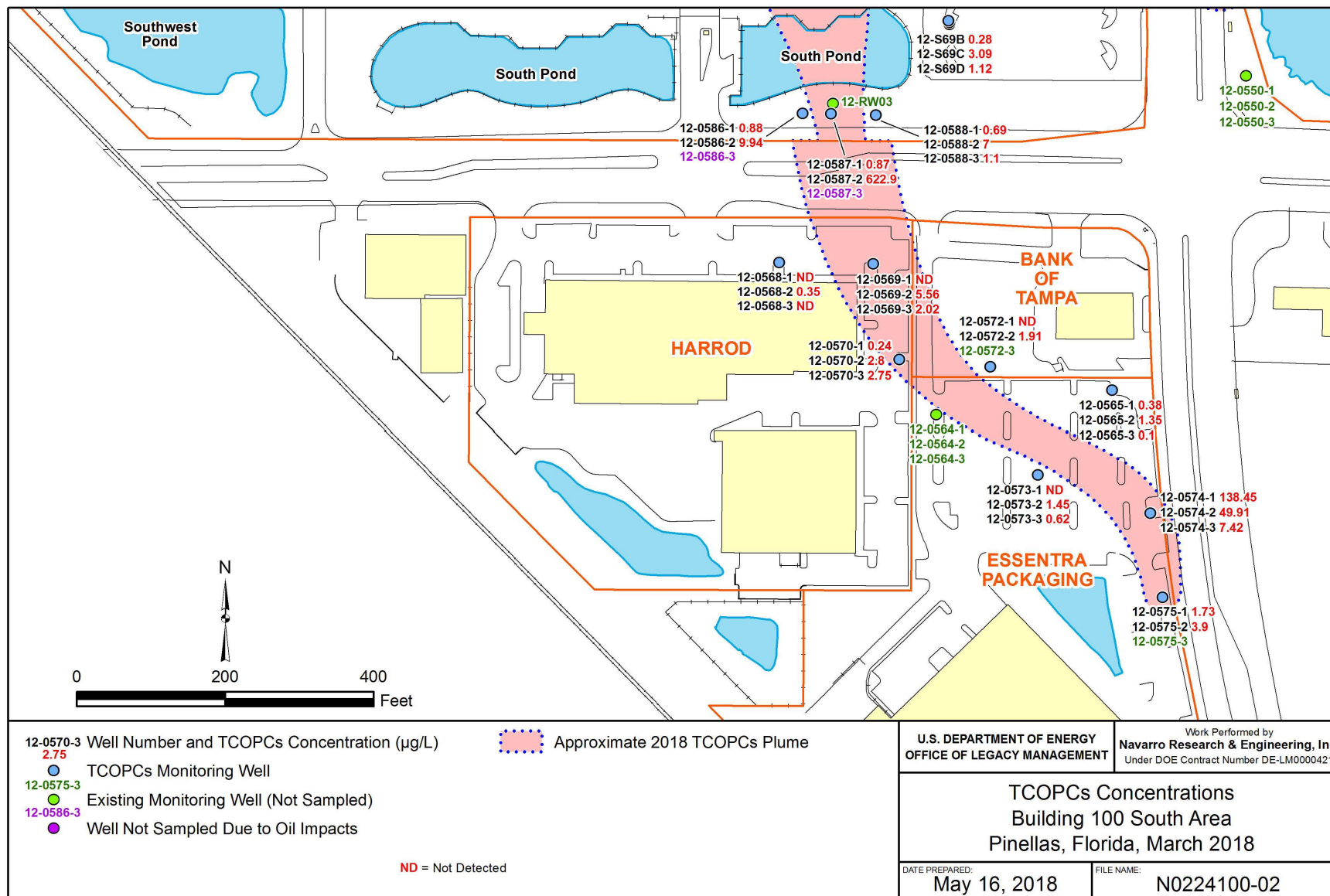
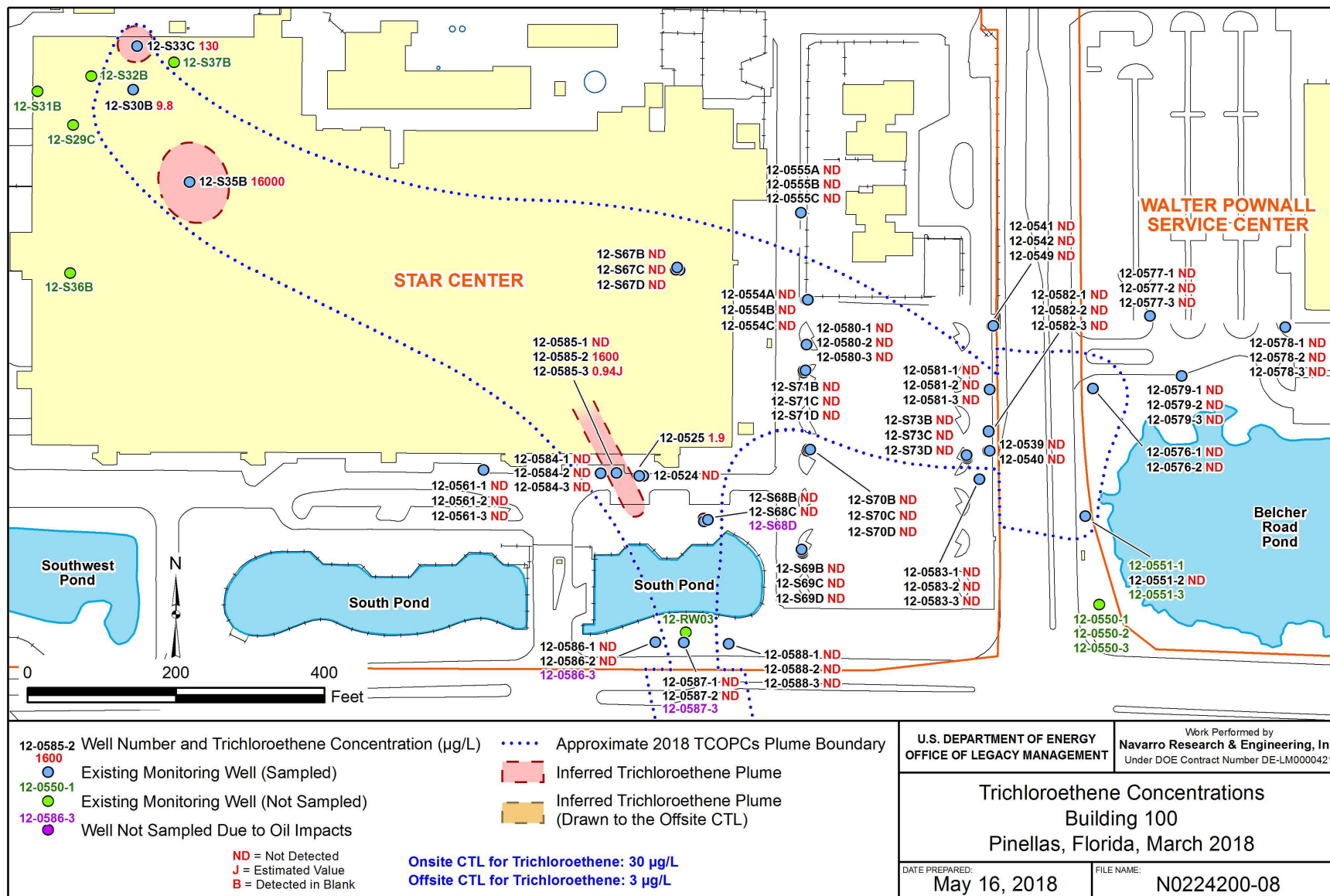


Figure 5. Building 100 Area TCOPCs Concentrations, March 2018



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Figure 6. Building 100 Area South TCOPCs Concentrations, March 2018



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Figure 7. Building 100 Area TCE Concentrations, March 2018

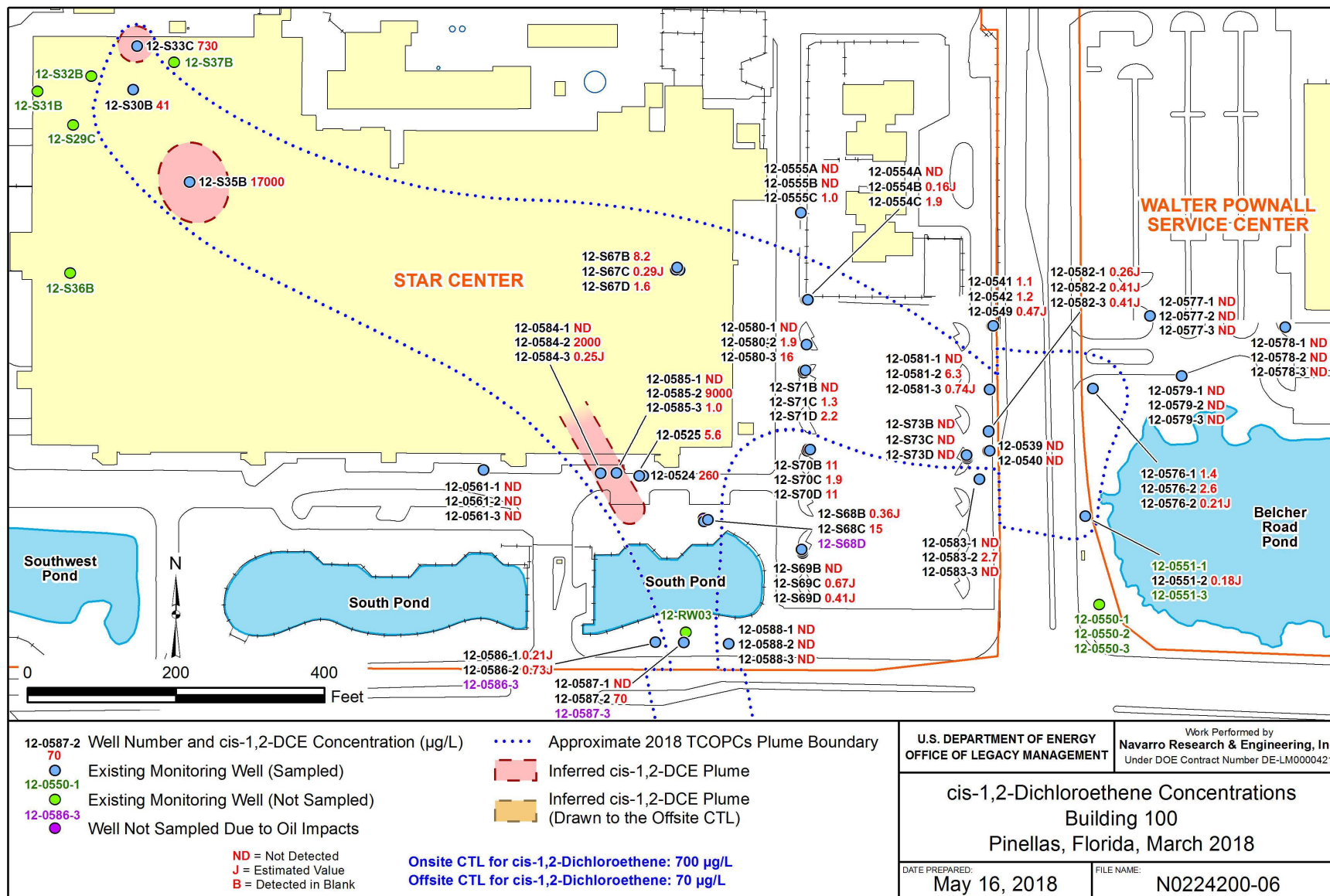
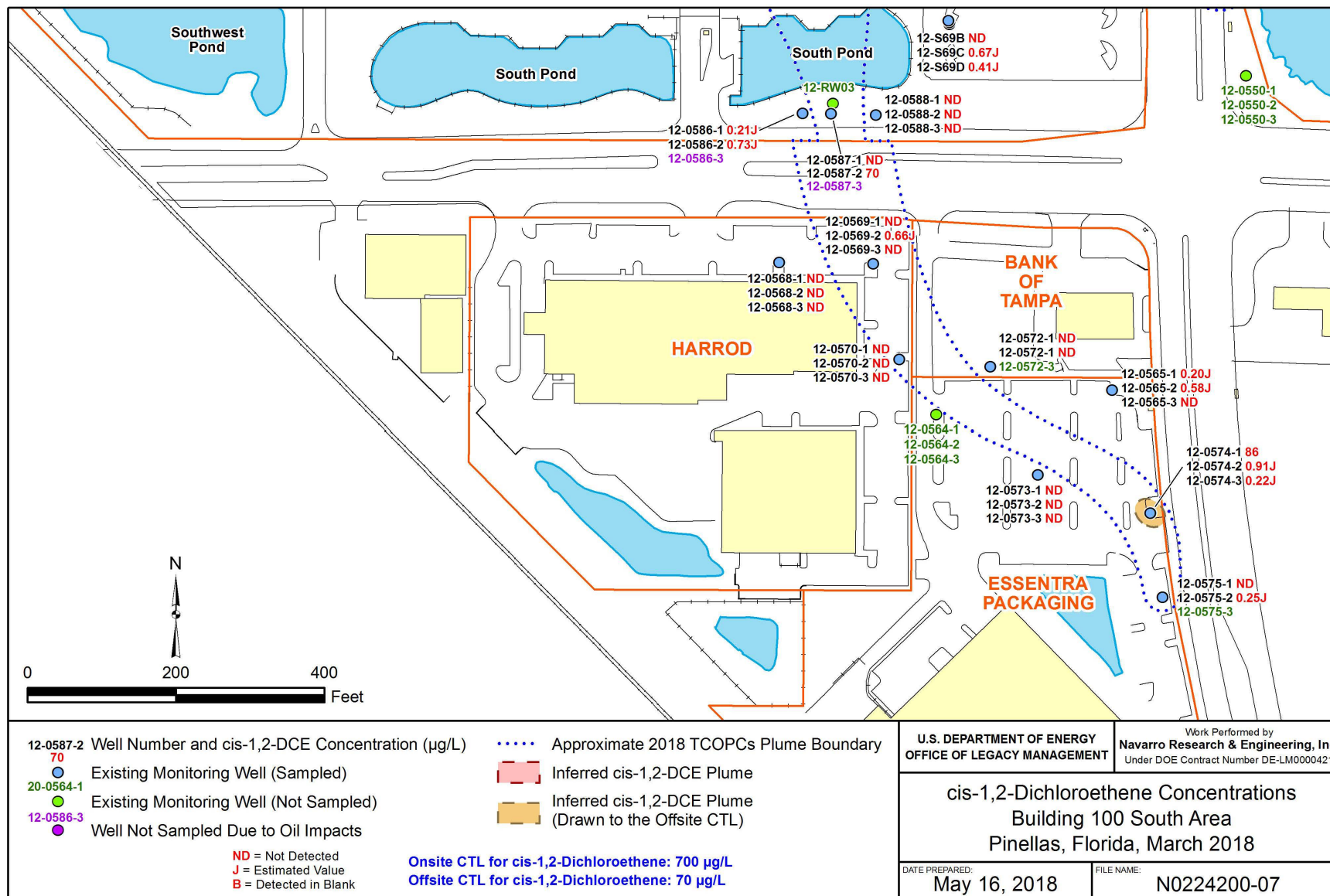
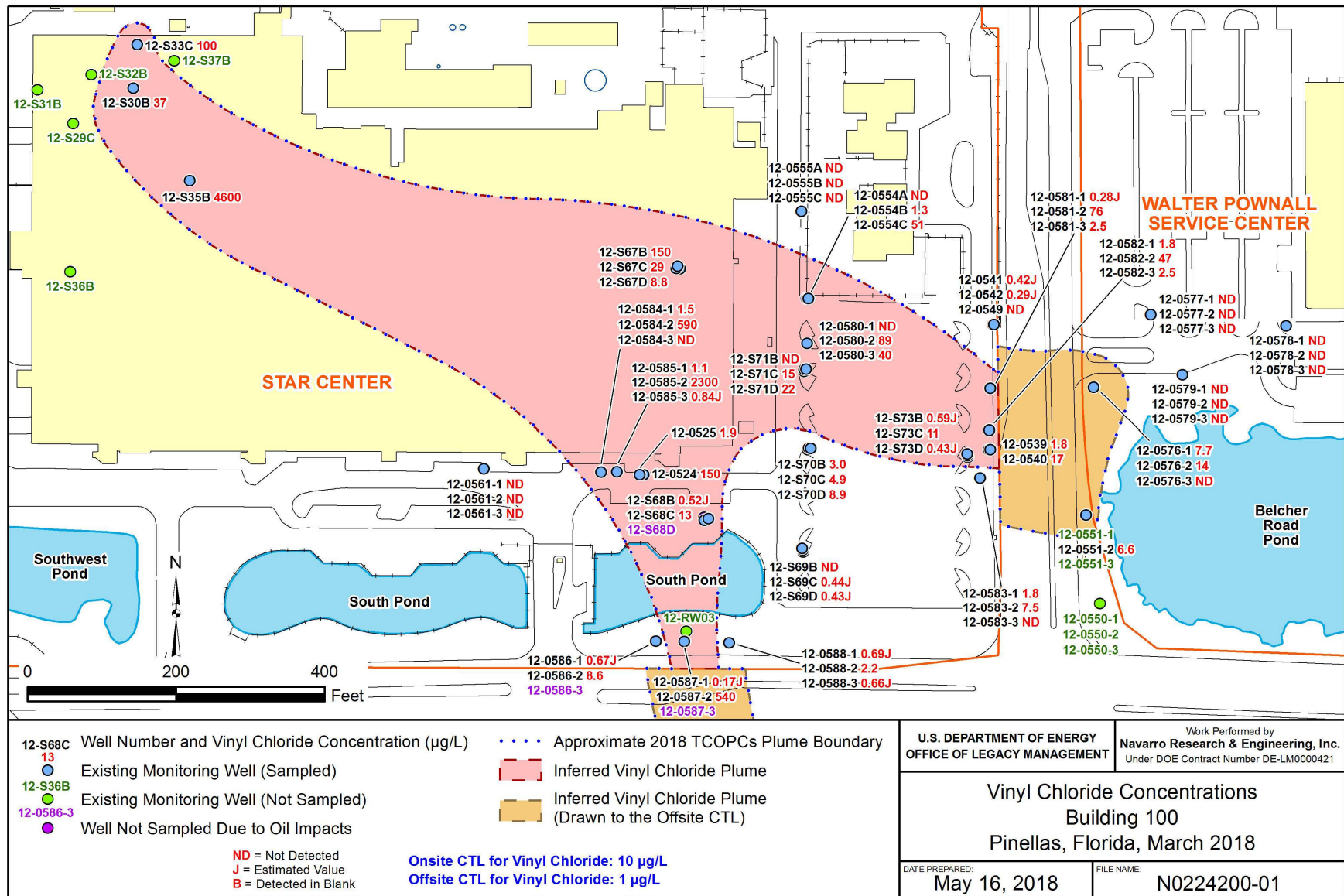


Figure 8. Building 100 Area cDCE Concentrations, March 2018



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Figure 9. Building 100 Area South cDCE Concentrations, March 2018



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Figure 10. Building 100 Area VC Concentrations, March 2018

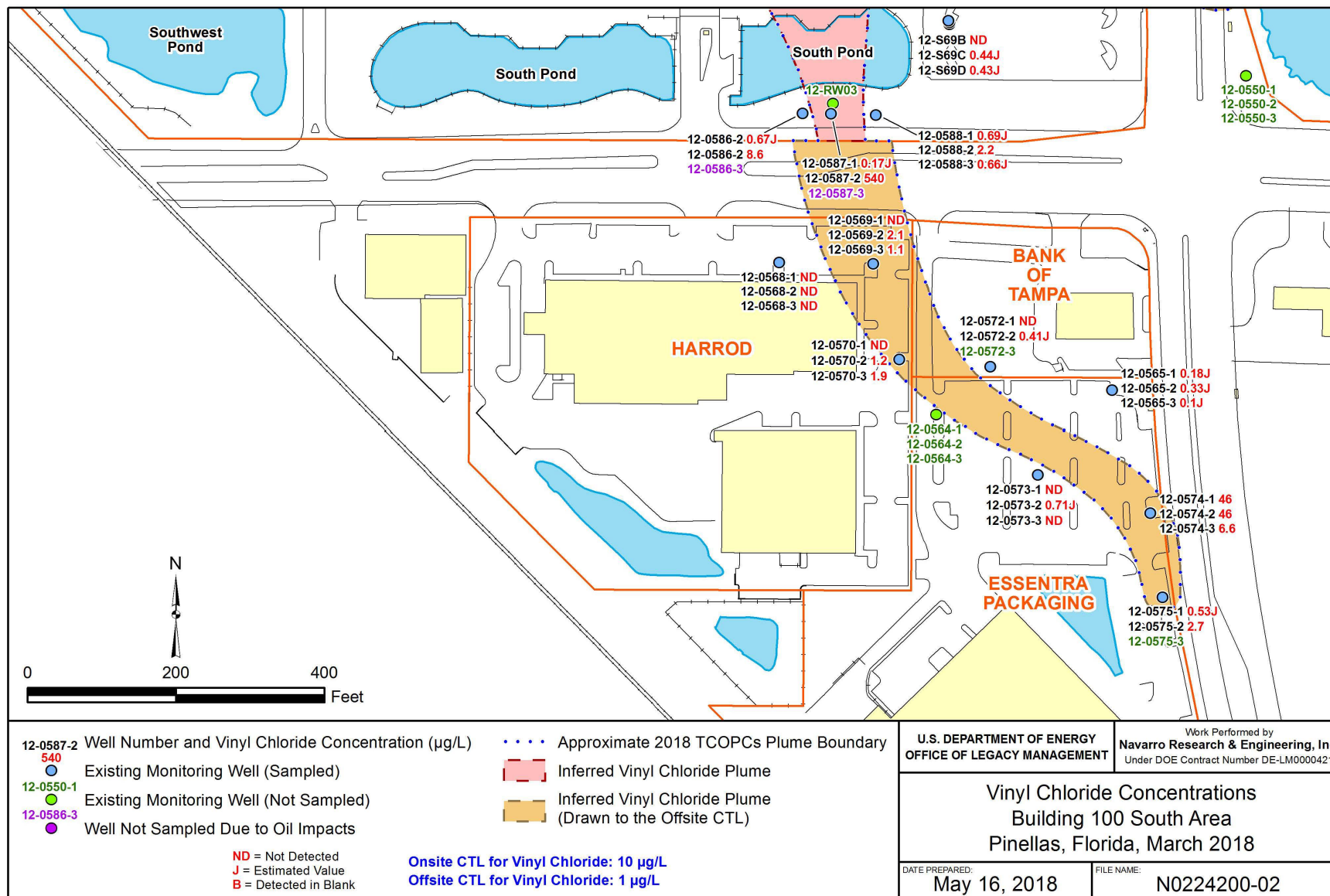
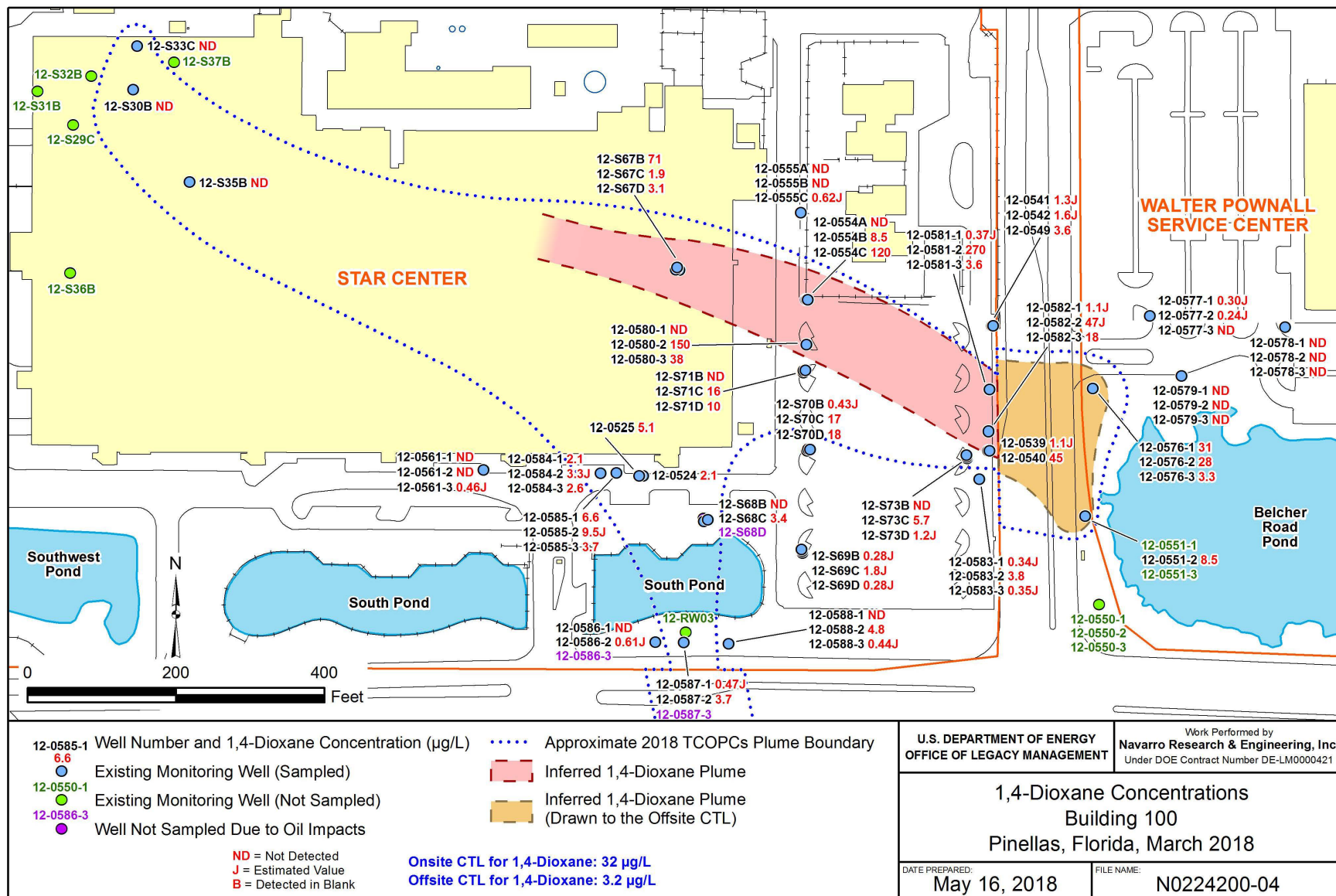


Figure 11. Building 100 Area South VC Concentrations, March 2018



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Figure 12. Building 100 Area 1,4-Dioxane Concentrations, March 2018

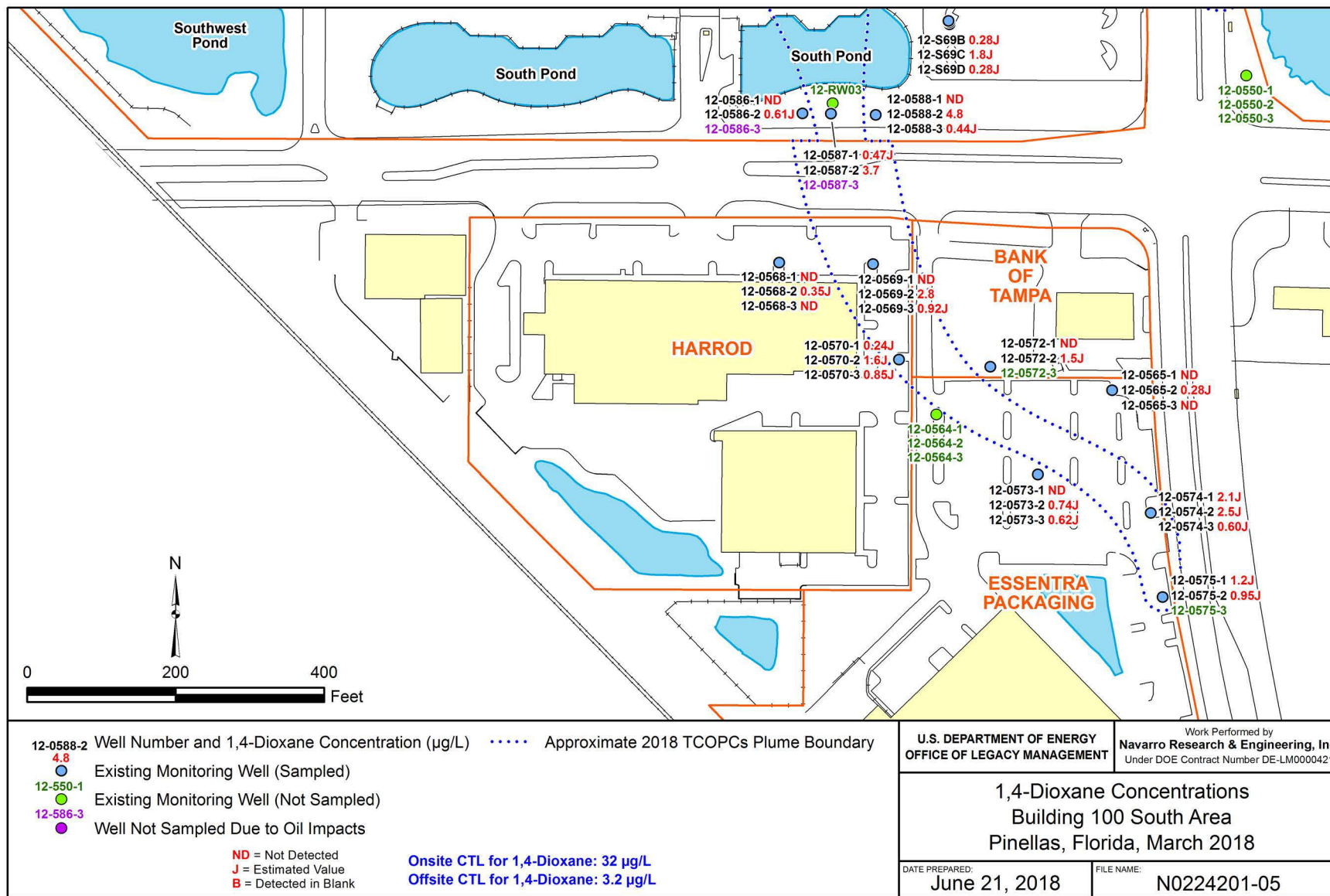


Figure 13. Building 100 Area South 1,4-Dioxane Concentrations, March 2018

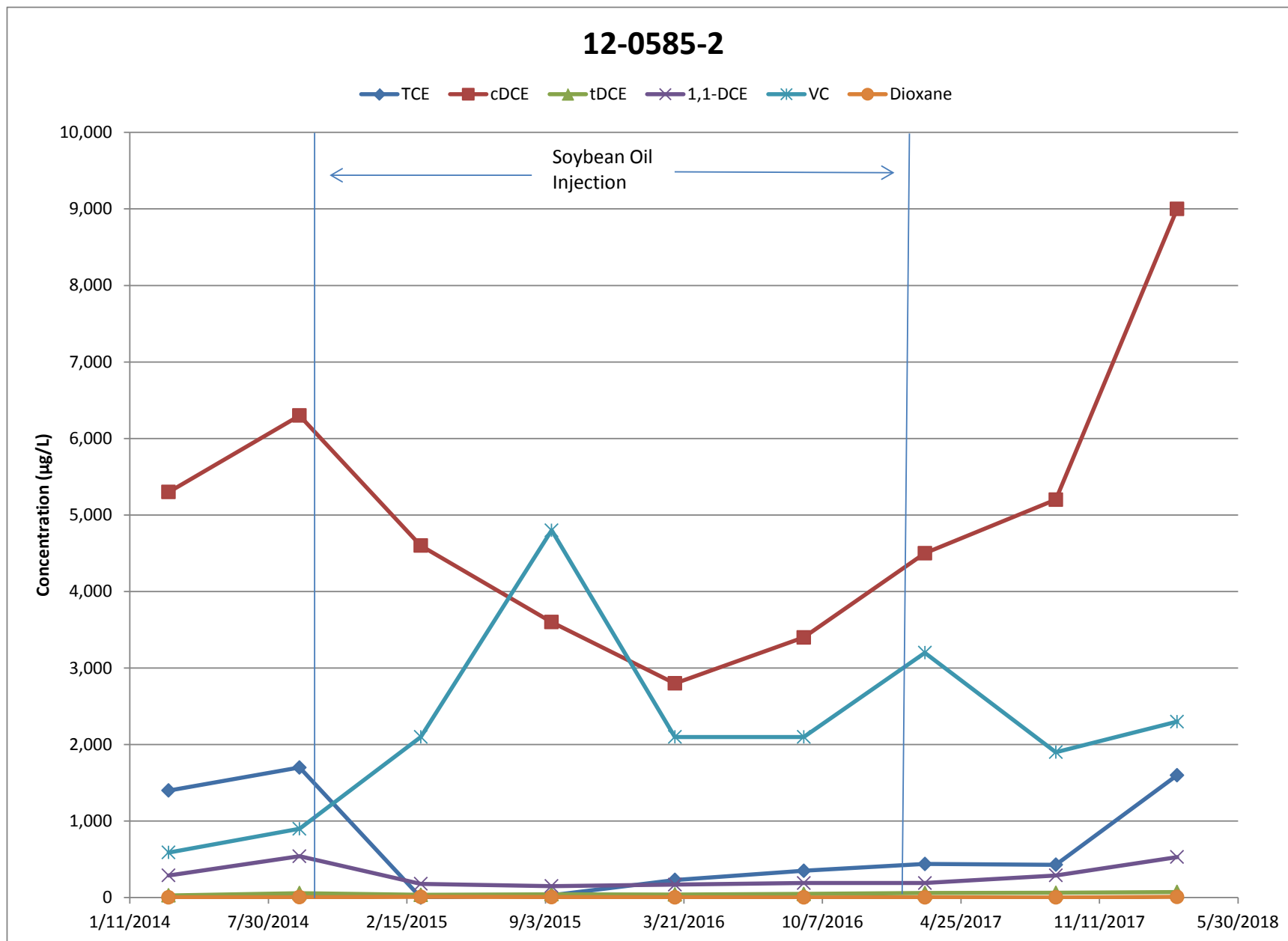


Figure 14. COPC Trends in Well 12-0585-2

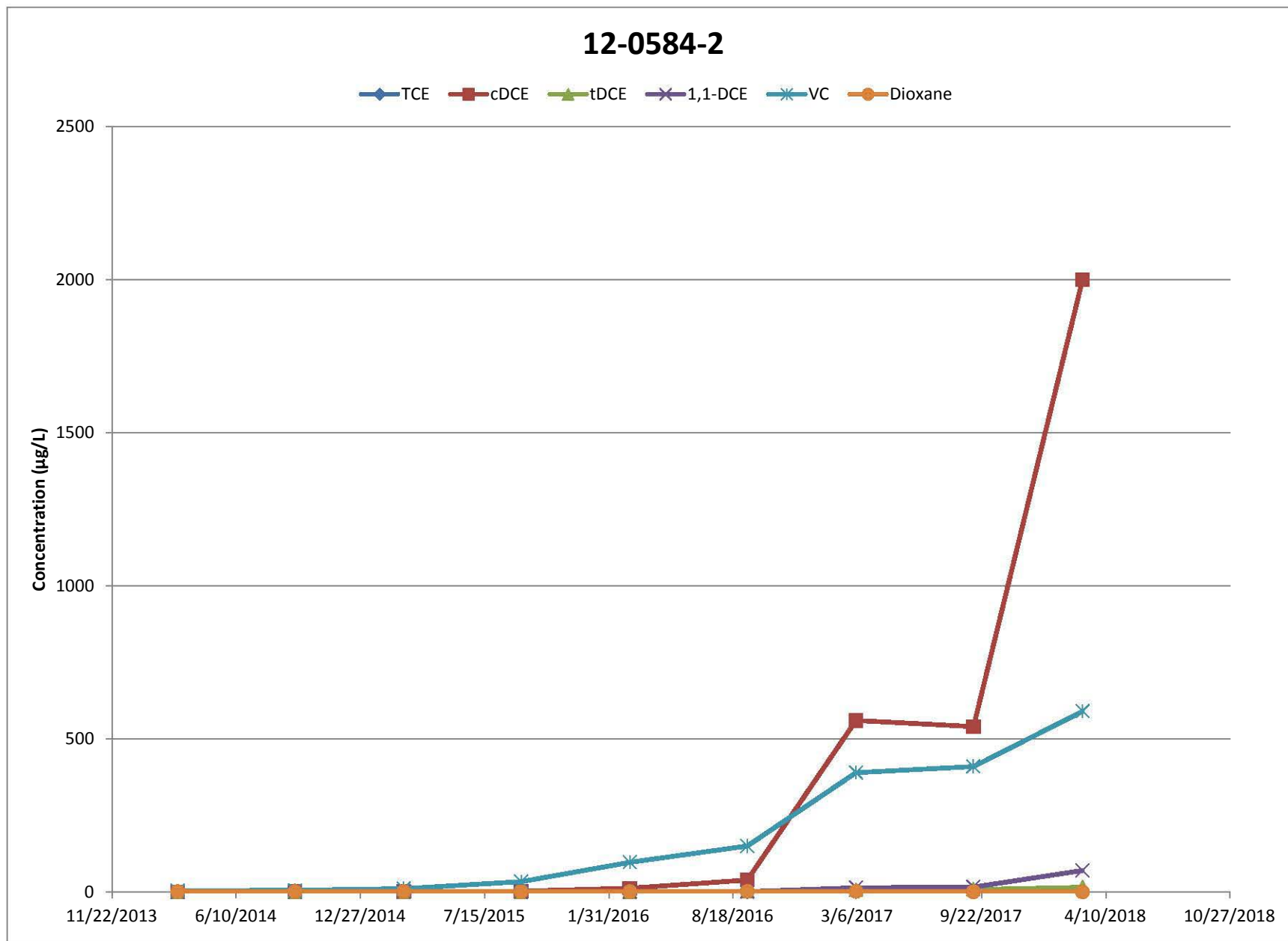


Figure 15. COPC Trends in Well 12-0584-2

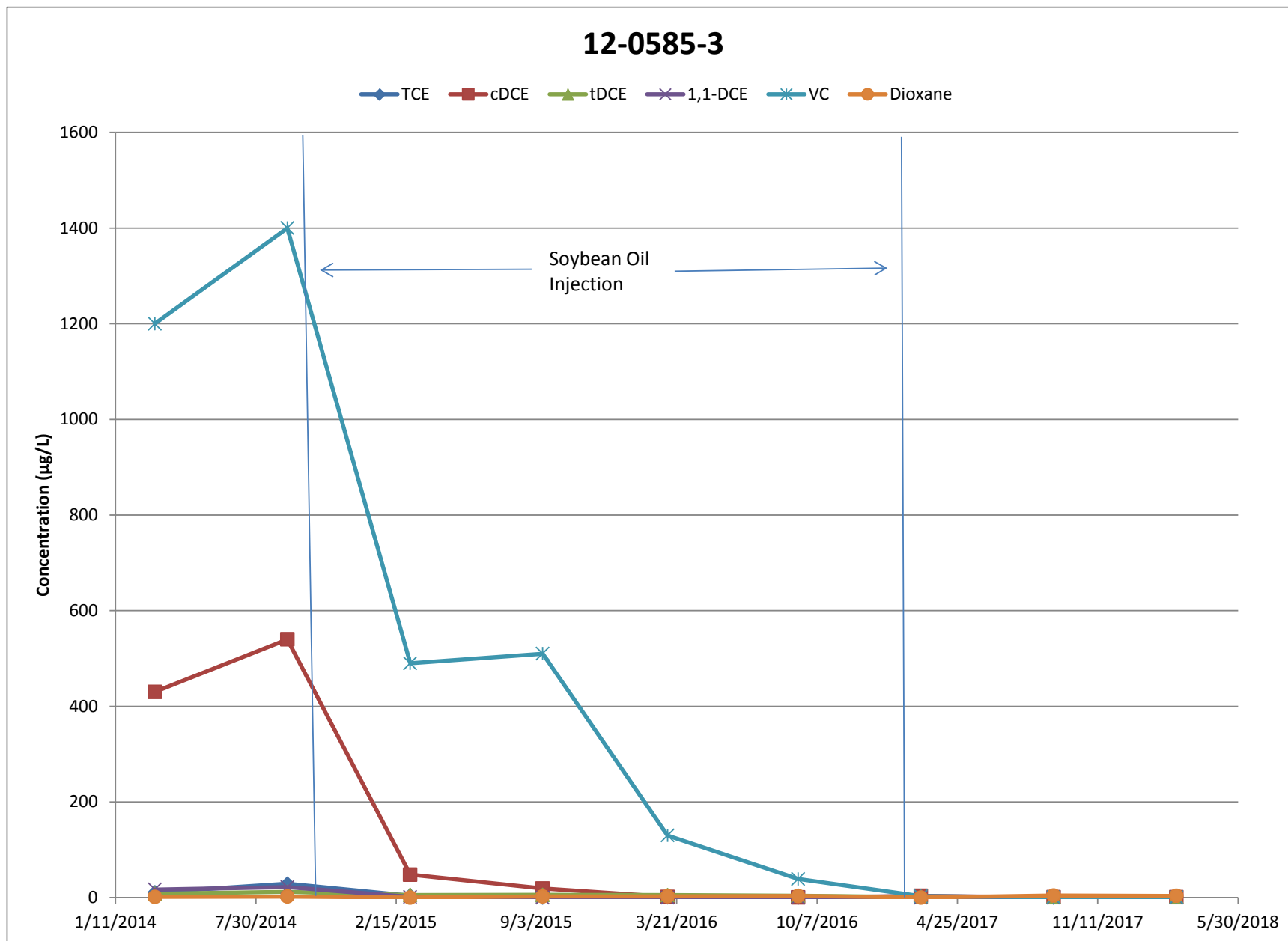


Figure 16. COPC Trends in Well 12-0585-3

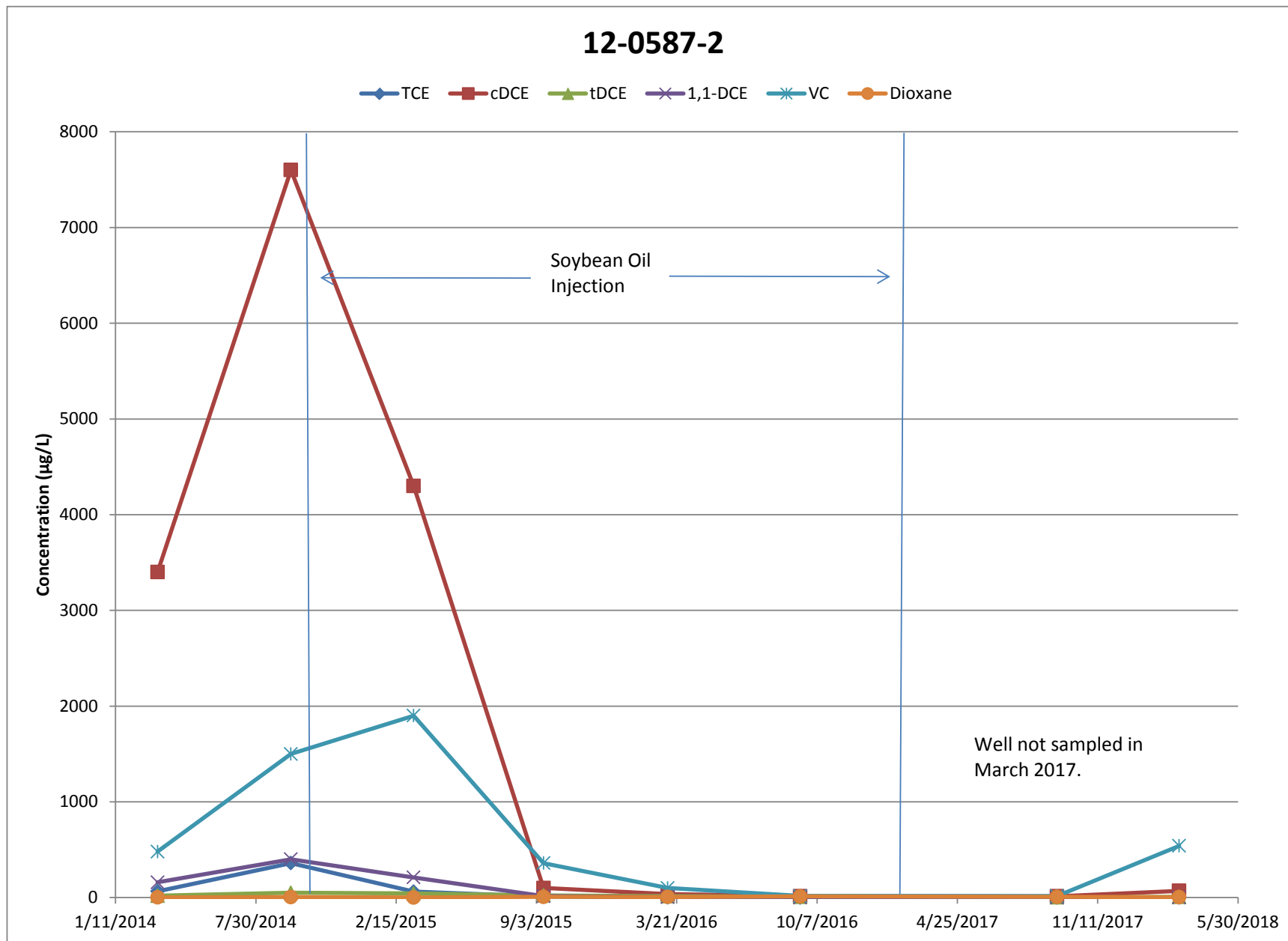


Figure 17. COPC Trends in Well 12-0587-2

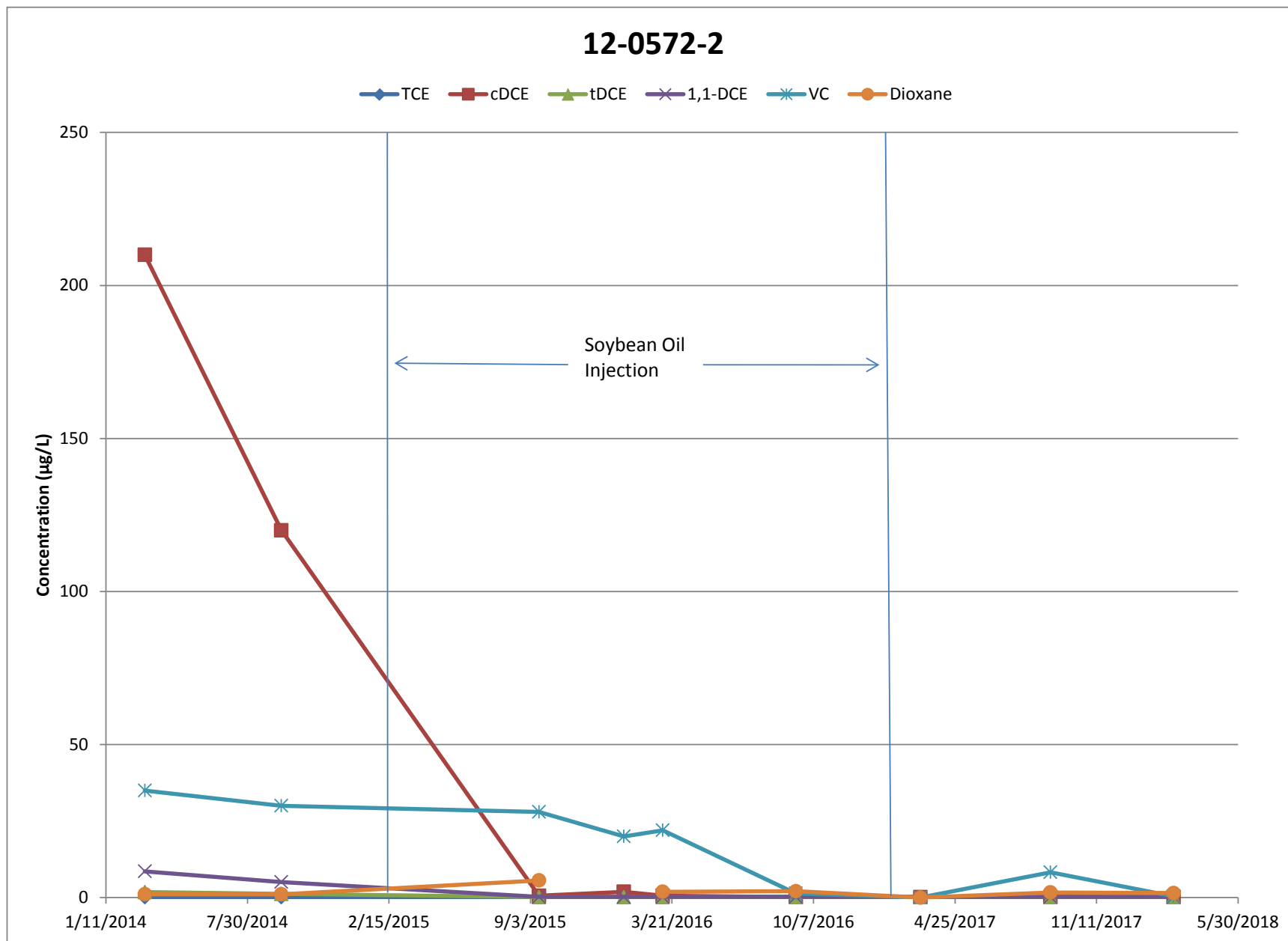


Figure 18. COPC Trends in Well 12-0572-2

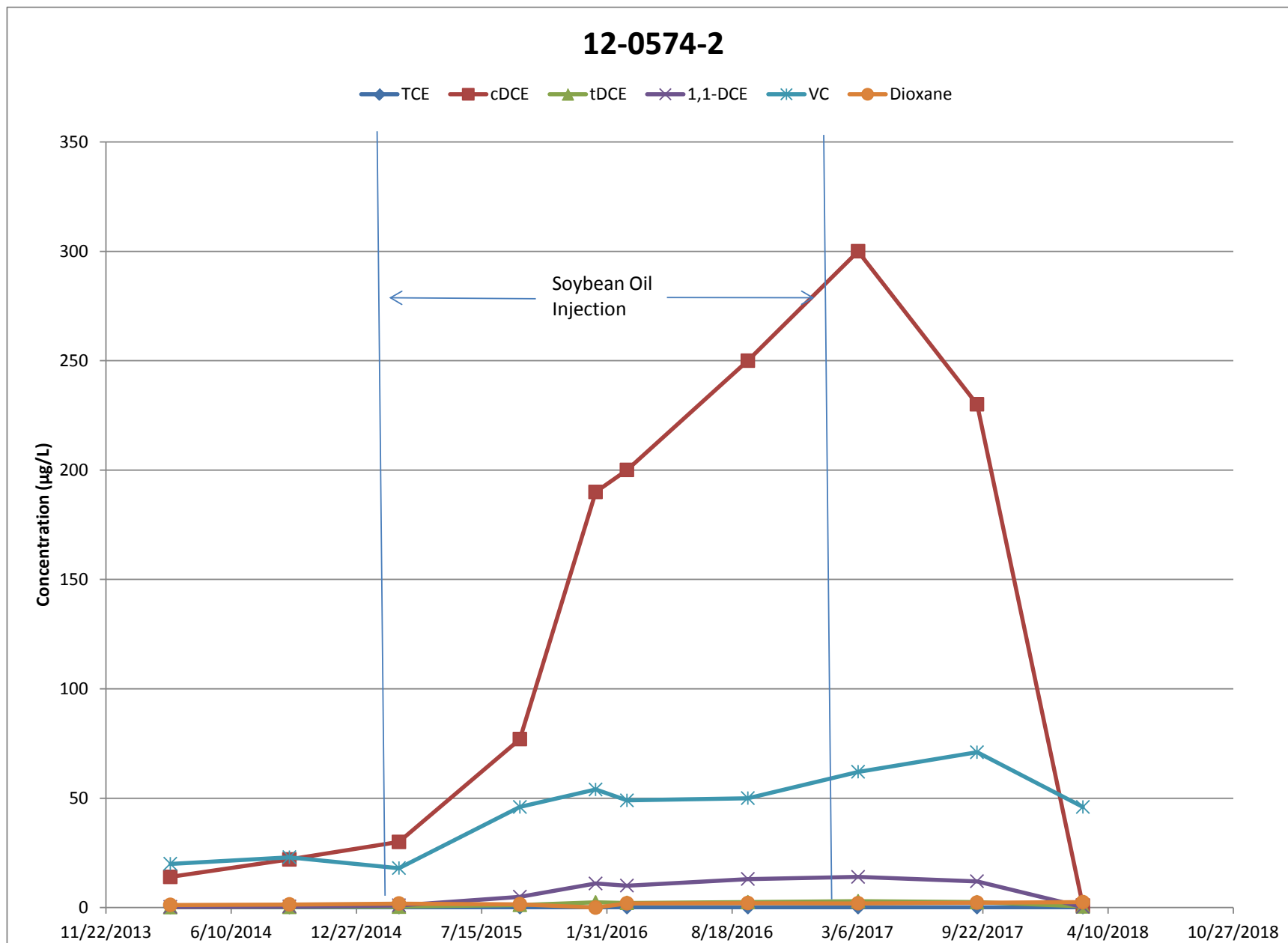


Figure 19. COPC Trends in Well 12-0574-2

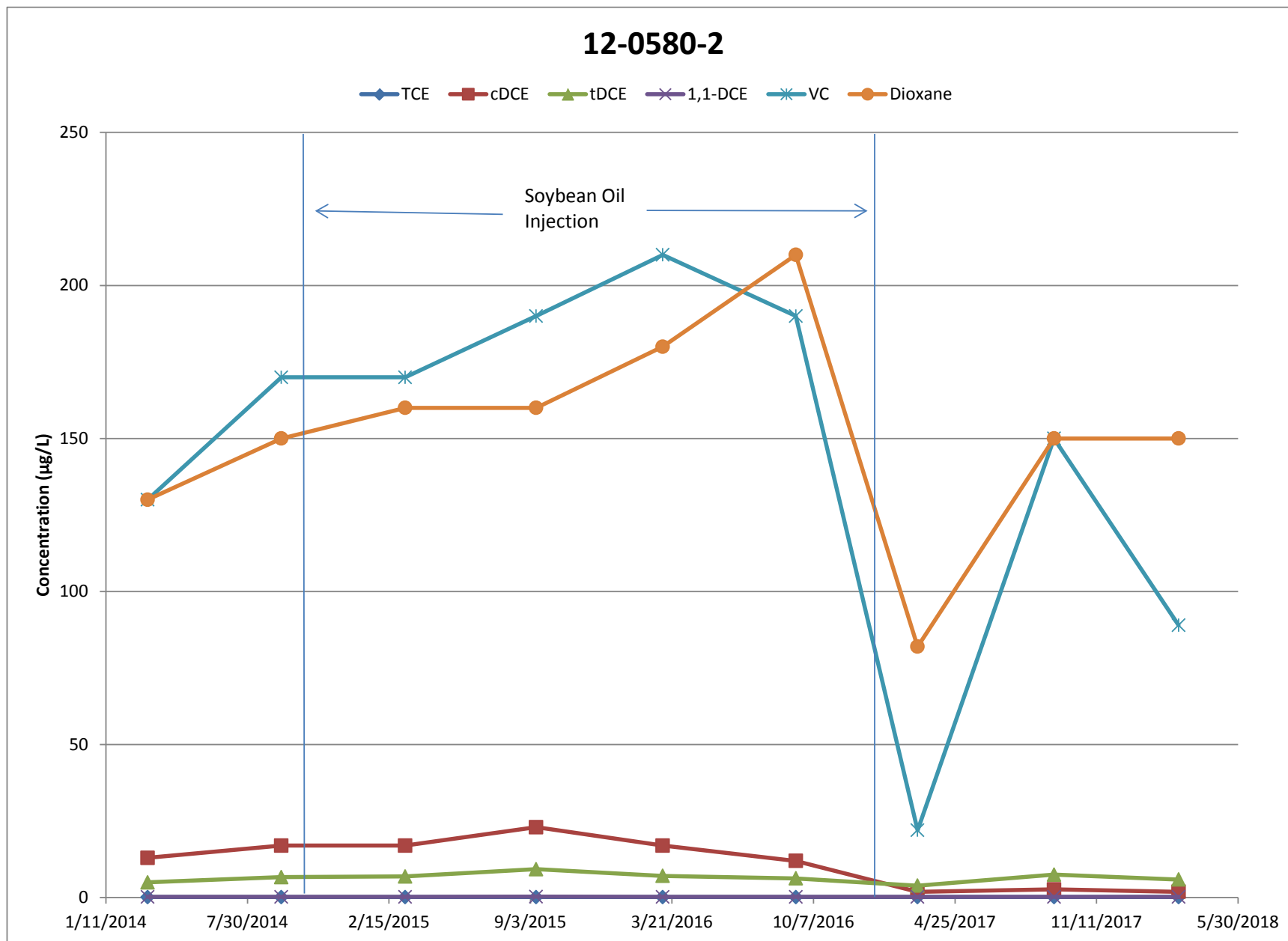


Figure 20. COPC Trends in Well 12-0580-2

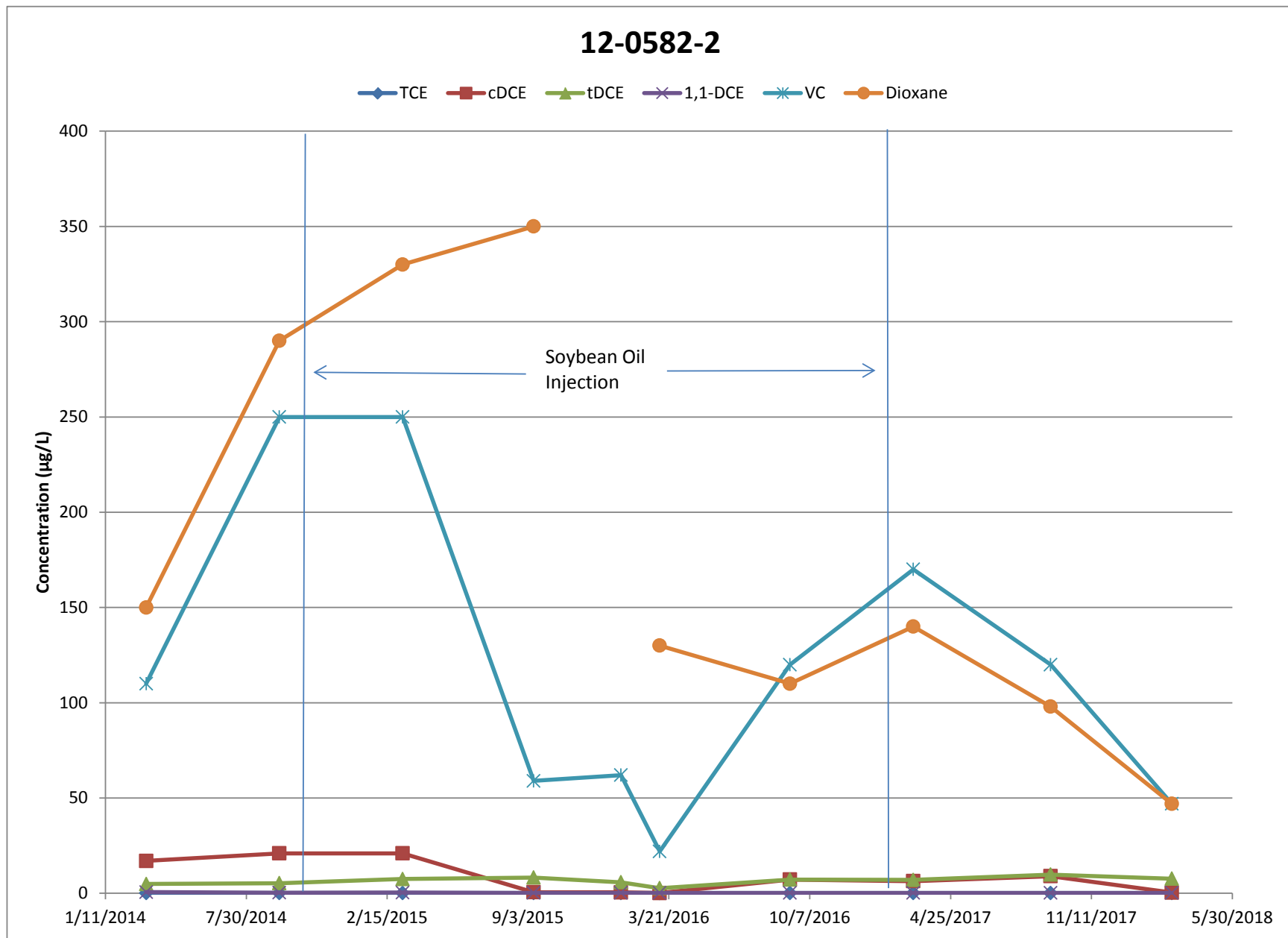


Figure 21. COPC Trends in Well 12-0582-2

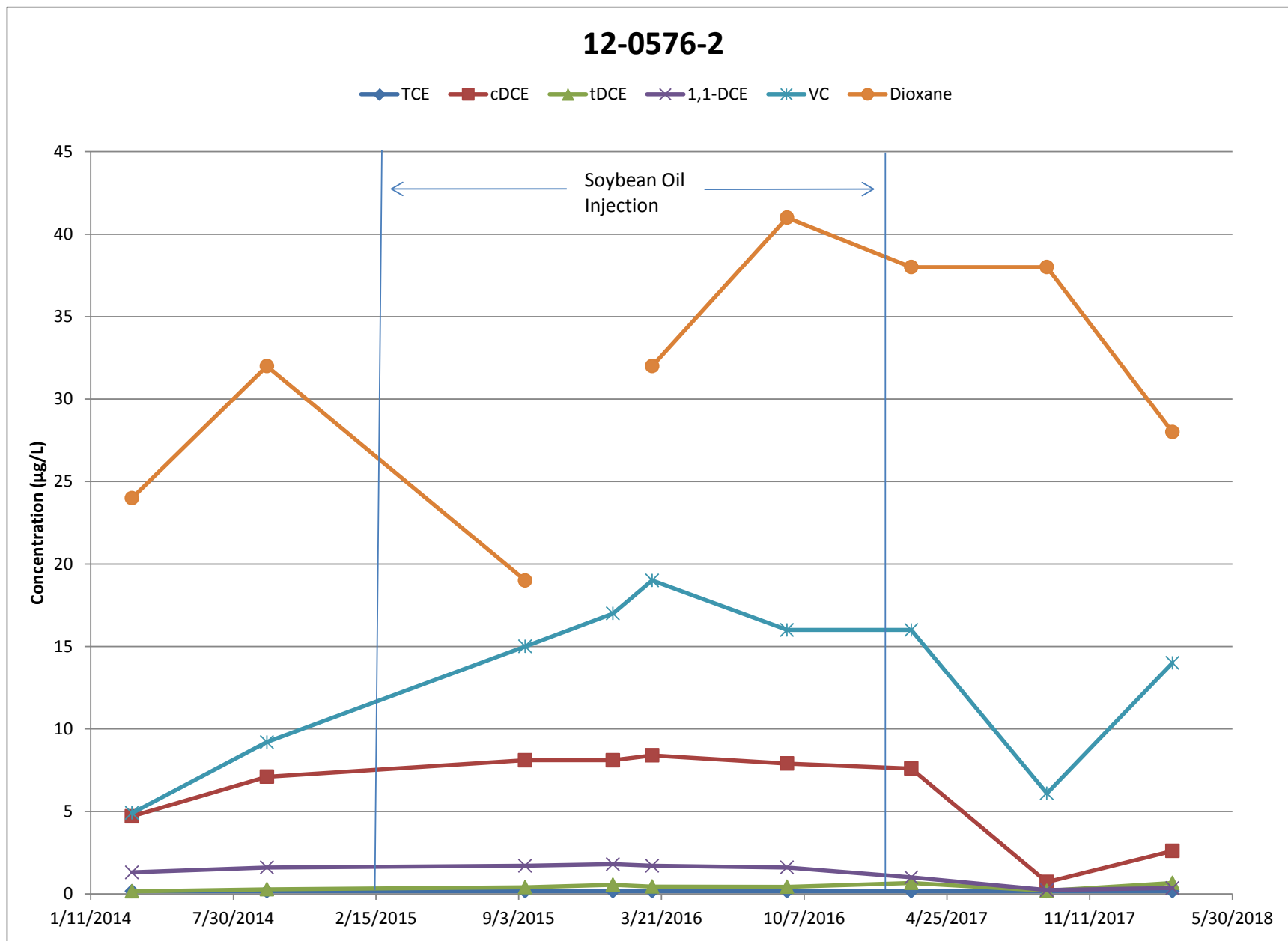


Figure 22. COPC Trends in Well 12-0576-2

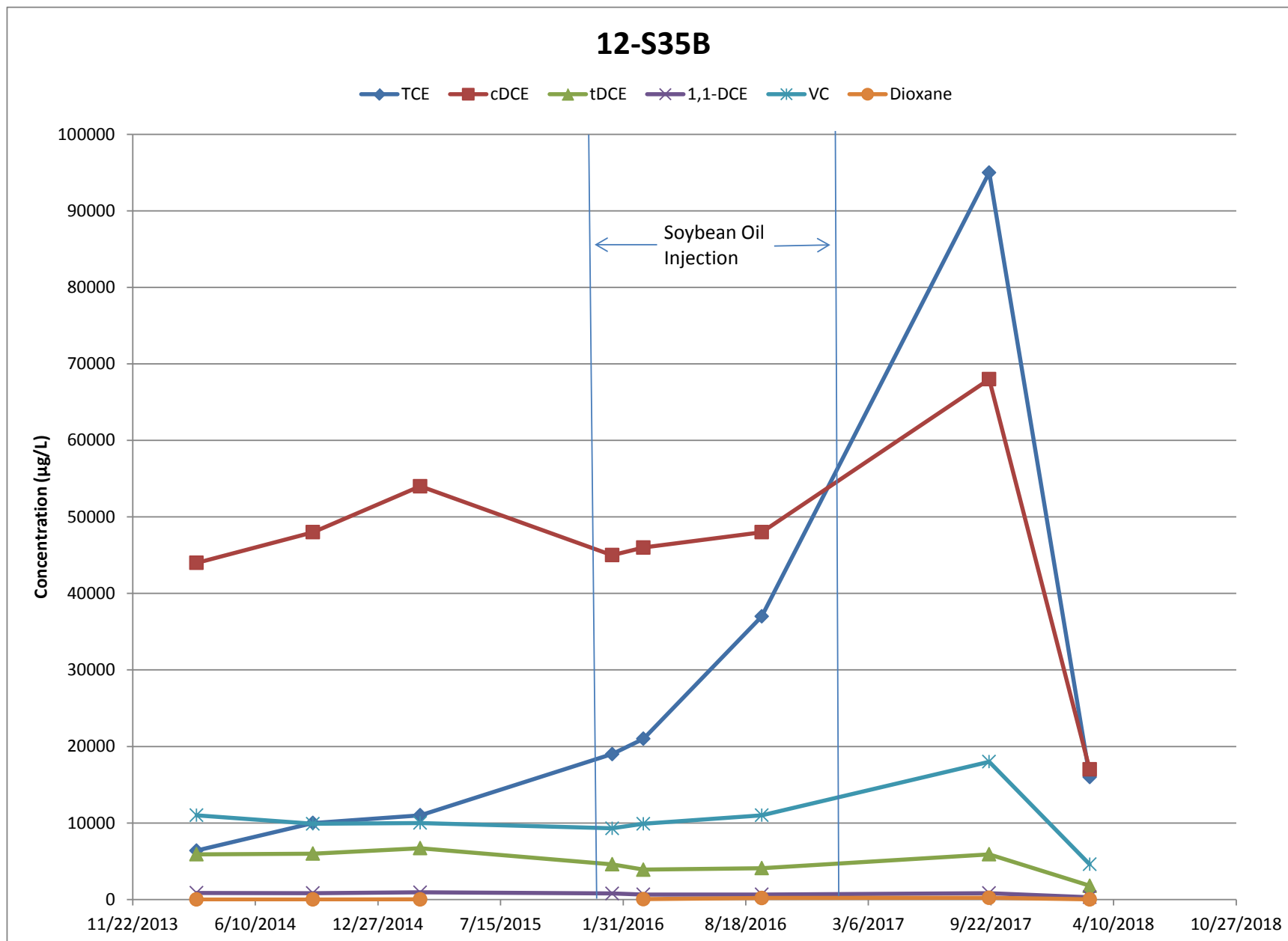


Figure 23. COPC Trends in Well 12-S35B

Table 1. Groundwater-Level Data at the STAR Center, March 2018

Location	Measurement		Water Depth (ft bls)	Groundwater Elevation (ft amsl)
	Date	Time		
PIN02	Sitewide Piezometers			
PZ03	2/28/2018	9:06	4.24	15.46
PZ04	2/28/2018	9:05	2.63	15.57
PZ05	2/28/2018	9:17	2.81	15.29
PZ08	2/28/2018	9:23	3.98	14.42
PZ09	2/28/2018	9:28	3.67	14.33
PZ10	2/28/2018	9:07	3.97	14.91
PZ11	2/28/2018	9:10	4.59	14.29
PIN12	Building 100 Area			
0524	2/28/2018	8:51	3.70	13.71
0525	2/28/2018	8:46	3.71	13.71
0539	2/28/2018	13:23	3.27	13.33
0540	2/28/2018	13:24	2.86	13.24
0541	2/28/2018	13:58	4.41	13.25
0542	2/28/2018	13:58	4.34	13.36
0549	2/28/2018	14:02	4.37	13.29
0550-1	2/28/2018	10:55	2.55	12.15
0550-2	2/28/2018	10:57	2.45	12.25
0550-3	2/28/2018	10:58	2.46	12.24
0551-1	2/28/2018	11:03	3.40	12
0551-2	2/28/2018	11:03	3.31	12.09
0551-3	2/28/2018	11:05	2.89	12.51
0554A	2/28/2018	10:17	4.50	13.74
0554B	2/28/2018	10:17	4.54	13.7
0554C	2/28/2018	10:16	4.66	13.58
0555A	2/28/2018	10:26	3.86	14.03
0555B	2/28/2018	10:26	4.04	13.85
0555C	2/28/2018	10:25	4.04	13.85
0561-1	2/28/2018	8:27	4.12	14.1
0561-2	2/28/2018	8:28	4.14	14.08
0561-3	2/28/2018	6:29	4.13	14.09
0564-1	2/28/2018	9:27	3.18	12.32
0564-2	2/28/2018	9:28	3.27	12.23
0564-3	2/28/2018	9:29	3.28	12.22
0565-1	2/28/2018	9:40	4.01	11.69
0565-2	2/28/2018	9:42	3.99	11.71
0565-3	2/28/2018	9:43	3.96	11.74
0568-1	2/28/2018	8:52	4.92	13.34
0568-2	2/28/2018	8:51	5.01	13.25
0568-3	2/28/2018	8:53	5.04	13.22

Table 1. Groundwater-Level Data at the STAR Center, March 2018 (continued)

Location	Measurement		Water Depth (ft bls)	Groundwater Elevation (ft amsl)
	Date	Time		
0569-1	2/28/2018	9:00	5.22	12.89
0569-2	2/28/2018	9:04	5.25	12.86
0569-3	2/28/2018	9:04	5.26	12.85
0570-1	2/28/2018	9:08	5.52	12.28
0570-2	2/28/2018	9:14	5.55	12.25
0570-3	2/28/2018	9:15	5.53	12.27
0572-1	2/28/2018	9:20	3.40	12.2
0572-2	2/28/2018	9:23	3.40	12.2
0573-1	2/28/2018	9:33	3.23	11.77
0573-2	2/28/2018	9:35	3.25	11.75
0573-3	2/28/2018	9:35	3.25	11.75
0574-1	2/28/2018	9:48	5.30	11
0574-2	2/28/2018	9:49	5.27	11.03
0574-3	2/28/2018	9:49	5.27	11.03
0575-1	2/28/2018	10:37	4.80	10.5
0575-1	2/28/2018	15:35	4.77	10.53
0575-2	2/28/2018	10:38	4.78	10.52
0576-1	2/28/2018	13:06	4.60	12.9
0576-2	2/28/2018	13:08	4.58	12.92
0576-3	2/28/2018	13:08	4.60	12.9
0577-1	2/28/2018	13:22	4.96	12.94
0577-2	2/28/2018	13:23	4.93	12.97
0577-3	2/28/2018	13:24	4.93	12.97
0578-1	2/28/2018	13:43	4.74	13.06
0578-2	2/28/2018	13:44	4.74	13.06
0578-3	2/28/2018	13:45	4.75	13.05
0579-1	2/28/2018	13:31	4.49	12.91
0579-2	2/28/2018	13:32	4.49	12.91
0579-3	2/28/2018	13:33	4.49	12.91
0580-1	2/28/2018	10:35	4.73	13.77
0580-2	2/28/2018	10:35	4.80	13.7
0580-3	2/28/2018	13:36	4.81	13.69
0581-1	2/28/2018	13:47	4.03	13.33
0581-2	2/28/2018	13:47	4.06	13.3
0581-3	2/28/2018	13:48	4.05	13.31
0582-1	2/28/2018	13:42	3.48	13.25
0582-2	2/28/2018	13:41	3.43	13.3
0582-3	2/28/2018	13:41	3.44	13.29
0583-1	2/28/2018	13:59	3.22	13.29
0583-2	2/28/2018	14:01	3.17	13.34

Table 1. Groundwater-Level Data at the STAR Center, March 2018 (continued)

Location	Measurement		Water Depth (ft bls)	Groundwater Elevation (ft amsl)
	Date	Time		
0583-3	2/28/2018	14:02	3.01	13.5
0584-1	2/28/2018	8:36	3.70	13.9
0584-2	2/28/2018	8:37	3.77	13.83
0584-3	2/28/2018	8:37	3.71	13.89
0585-1	2/28/2018	12:53	3.58	13.91
0585-2	2/28/2018	12:54	3.63	13.86
0585-3	2/28/2018	12:55	3.59	13.9
0586-1	2/28/2018	12:35	4.04	13.36
0586-2	2/28/2018	12:35	3.92	13.48
0586-3	2/28/2018	12:36	4.03	13.37
0587-1	2/28/2018	12:43	4.15	13.35
0587-2	2/28/2018	12:44	4.09	13.41
0587-3	2/28/2018	12:44	4.25	13.25
0588-1	2/28/2018	12:30	4.14	13.26
0588-2	2/28/2018	12:30	4.13	13.27
0588-3	2/28/2018	12:31	4.15	13.25
PZ01	2/28/2018	13:12	4.34	13.16
PZ02	2/28/2018	13:37	5.76	13.14
PZ03	2/28/2018	13:50	3.08	13.82
S29C	2/28/2018	10:06	3.79	14.72
S30B	2/28/2018	10:22	3.68	14.83
S31B	2/28/2018	10:14	3.63	14.88
S32B	2/28/2018	9:43	3.66	14.85
S33C	2/28/2018	9:50	3.58	14.93
S35B	2/28/2018	10:37	3.88	14.63
S36B	2/28/2018	9:34	4.18	14.33
S37B	2/28/2018	10:28	3.58	14.93
S67B	2/28/2018	10:49	4.29	14.18
S67D	2/28/2018	10:55	4.39	14.09
S68B	2/28/2018	12:55	4.10	13.8
S68C	2/28/2018	12:54	4.39	13.51
S68D	2/28/2018	14:09	4.24	13.66
S69B	2/28/2018	11:03	2.56	13.44
S69C	2/28/2018	11:03	2.70	13.3
S69D	2/28/2018	11:02	2.70	13.3
S70B	2/28/2018	10:55	3.01	13.69
S70C	2/28/2018	10:54	3.05	13.65
S70D	2/28/2018	10:53	3.05	13.65
S71B	2/28/2018	10:44	4.65	13.75
S71C	2/28/2018	10:43	4.75	13.65

Table 1. Groundwater-Level Data at the STAR Center, March 2018 (continued)

Location	Measurement		Water Depth (ft bls)	Groundwater Elevation (ft amsl)
	Date	Time		
S71D	2/28/2018	10:42	4.73	13.67
S73B	2/28/2018	13:28	3.77	13.23
S73C	2/28/2018	13:17	4.08	12.92
S73D	2/28/2018	13:29	3.88	13.12

Abbreviations:

ft amsl = feet above mean sea level

ft bls = feet below land surface

Table 2. Surface Water Elevations, March 2018

Location	Measurement		Surface Water Elevation (ft amsl)
	Date	Time	
PIN01	Pond 5		
P501	2/28/2018	13:31	13.66
P503	2/28/2018	13:04	13.95
PIN02	West Pond		
W005	2/28/2018	13:24	14.02
PIN12	Belcher Road Pond		
BR01	2/28/2018	12:47	13.00
PIN23	Southwest Pond		
SW01	2/28/2018	13:45	13.58
PIN37	South Pond		
S001	2/28/2018	13:47	13.57
S002	2/28/2018	13:58	13.62

Abbreviation:

ft amsl = feet above mean sea level

Table 3. Field Measurements of Samples Collected at the STAR Center, March 2018

Location	Screen Depth (ft bls)	Temperature (°C)	Specific Conductance (µmhos/cm) ^a	Turbidity (NTU)	pH	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
0524	27–37	26.07	1225	49.4	6.63	–40	0.5
0525	12–22	26.35	734	78.4	6.76	–55.2	0.9
0539	9.5–19.5	27.98	705	6.65	6.67	–25.7	0.48
0540	20–30	27.81	1710	11.4	6.27	–151.8	0.58
0541	10–20	27.22	867	18.9	6.64	–27.7	0.37
0542	20–30	27.88	805	4.44	6.65	–31.3	0.34
0549	30–40	27.54	1193	13.7	6.84	–24.3	0.53
0551-2	20–29	23.03	1338	2.64	6.6	1.4	1.17
0554A	3–13	25.8	623	2.2	6.33	–17.2	0.68
0554B	13–23	25.18	632	3.1	6.61	–20.5	0.61
0554C	23–33	26.57	844	8.66	6.54	–54.5	0.62
0555A	2.5–12.5	24.75	416	2.81	6.25	12.2	0.56
0555B	13–23	25.09	419	2.19	6.91	–31	0.46
0555C	23–33	25.4	530	7.27	6.74	–56.6	0.74
0561-1	9–18	24.12	478	1.17	7	–85.6	0.71
0561-2	20–29	24.77	613	1.45	6.84	–24.3	1.28
0561-3	31–40	24.72	1234	1.22	6.69	–18.3	0.56
0565-1	9–18	26.05	996	1.61	6.72	57.1	1.06
0565-2	20–29	25.44	1330	2.02	6.68	33.7	1.2
0565-3	31–40	25.06	865	1.2	6.84	16.4	0.6
0568-1	9–18	20.36	1837	1.24	6.8	136.5	1.27
0568-2	20–29	21.85	1510	2	6.66	1.4	0.76
0568-3	31–40	22.04	1869	9.11	6.77	–12.3	0.5
0569-1	9–18	21.3	2298	6.78	6.74	16.5	0.81
0569-2	20–29	23.46	1194	34.9	6.14	–0.6	0.5
0569-3	31–40	21.1	1320	4.66	6.45	–1.3	0.78
0570-1	9–18	24.39	2277	1.75	6.7	138.9	0.69
0570-2	20–29	25.38	1720	1.41	6.72	–30.8	0.33
0570-3	31–40	25.13	1368	2.22	6.7	–21.4	0.45
0572-1	9–18	25.04	1486	2.29	6.64	–21.5	1.02
0572-2	20–29	24.4	1049	4.35	6.42	–8.3	0.79
0573-1	9–18	26.11	1645	7.21	6.68	3.1	0.7
0573-2	20–29	27.22	1381	0.76	6.65	–22.8	0.58
0573-3	31–40	27.18	1440	1.13	6.71	12	0.75
0574-1	9–18	27.13	1126	14.5	6.73	–9.6	0.76
0574-2	20–29	27.27	1934	12.9	6.55	–30.8	0.53
0574-3	31–40	27.19	1519	0.92	6.67	–6	0.58
0575-1	9–18	27.15	1326	3.42	6.59	–8	0.54
0575-2	20–29	27.87	1472	4.48	6.65	–39	1.1
0576-1	4–13	–	–	9.22	–	–	–

Table 3. Field Measurements of Samples Collected at the STAR Center, March 2018 (continued)

Location	Screen Depth (ft bls)	Temperature (°C)	Specific Conductance (µmhos/cm) ^a	Turbidity (NTU)	pH	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
0576-2	15–24	–	–	8.57	–	–	–
0576-3	26–35	–	–	23.2	–	–	–
0577-1	4–13	25.68	1056	1.61	6.54	28.3	0.97
0577-2	15–24	26.14	1061	0.89	6.52	5.2	0.45
0577-3	26–35	25.89	1389	1.04	6.61	–1.1	0.38
0578-1	4–13	23.95	345	6.87	6.29	151.2	0.73
0578-2	15–24	25.79	1019	1.22	6.41	39.1	1.05
0578-3	26–35	26.48	1179	1.26	6.63	14.5	0.88
0579-1	4–13	23.27	5167	1.53	5.88	1	0.68
0579-2	15–24	24.13	1186	0.84	6.58	–6.6	0.54
0579-3	26–35	24.03	1532	5.91	6.68	12.1	0.46
0580-1	9–18	23.44	543	2.9	6.77	–56	1.57
0580-2	20–29	25.48	1104	2.11	6.53	–40.9	0.57
0580-3	31–40	24.15	1471	2.97	6.62	–20.6	1.25
0581-1	9–18	26.63	826	1.86	6.61	–8	1.14
0581-2	20–29	27.19	1132	2.97	6.67	–14.1	1.06
0581-3	31–40	27.93	1443	3.1	6.74	29.1	1.13
0582-1	9–18	24.73	1887	1.91	6.6	–3	0.47
0582-2	20–29	26.92	1494	1.33	6.62	–9.7	0.41
0582-3	31–40	26.29	1455	10.8	6.51	–14.1	0.47
0583-1	9–18	26.59	1393	30.8	6.55	–31.6	0.43
0583-2	20–29	27.66	2038	4.09	6.58	–29.9	0.36
0583-3	31–40	26.65	2396	6.9	6.49	–16.5	0.52
0584-1	9–18	25.45	771	6.53	6.62	–68.5	0.72
0584-2	20–29	25.43	1227	7.03	6.41	–27.8	0.72
0584-3	31–40	–	–	99	–	–	–
0585-1	9–18	25.34	706	3.53	6.79	–2	1.23
0585-2	20–29	26.45	1096	4.16	6.55	3.7	0.36
0585-3	31–40	26.37	1884	42.6	6.32	–52	0.73
0586-1	8–17	–	–	13	–	–	–
0586-2	19–28	–	–	11.4	–	–	–
0587-1	9–18	–	–	13.2	–	–	–
0587-2	20–29	–	–	17.3	–	–	–
0588-1	9–18	23.1	862	2.5	6.76	–4.4	0.49
0588-2	20–29	23.78	879	8.45	5.77	17.1	0.95
0588-3	31–40	22.88	900	9.71	6.63	–11.3	0.6
S30B	5–15	21.6	771	5.64	6.84	–52	0.62
S33C	11–21	22.68	593	3.22	6.85	–65	0.57
S35B	5–15	22.8	1801	5.27	6.49	34	0.66
S67B	10–19.83	21.57	1156	3.73	6.56	–27	0.77
S67C	20–29.83	22.04	891	13.8	6.24	–36	0.82

Table 3. Field Measurements of Samples Collected at the STAR Center, March 2018 (continued)

Location	Screen Depth (ft bls)	Temperature (°C)	Specific Conductance (µmhos/cm) ^a	Turbidity (NTU)	pH	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
S67D	30–39.83	22.1	1302	11.1	6.52	–17	0.76
S68B	10–20	24.82	795	6.16	6.77	–77	0.76
S68C	18–28	25.36	1065	5.63	6.63	–35	0.58
S69B	10–20	24.1	619	5.89	6.84	–56.9	0.69
S69C	20–30	–	–	4.41	6.77	–42.5	0.08
S69D	30–40	24.57	1555	5.06	6.72	26.4	1.49
S70B	10–20	27.43	816	10.2	6.8	–27.5	0.63
S70C	20–30	28.25	1295	12.1	6.6	–52	0.68
S70D	30–40	28.8	1399	10.6	6.63	–34	0.82
S71B	10–20	25.21	650	23	6.71	–73.9	0.54
S71C	20–30	26.59	1136	10.9	6.62	–49.9	0.59
S71D	30–40	25.66	1448	13.7	6.57	–28.6	0.92
S73B	10–20	26.87	1054	8.83	6.46	–20.7	1.86
S73C	20–30	26.73	1550	12.9	6.42	58.1	0.68
S73D	30–40	27.72	1707	26.9	6.37	–21	0.8

Notes:

^a Temperature corrected to 25 °C.

Field measurements could not be taken at some locations due to oil impacts.

Abbreviations:

– = not measured

ft bls = feet below land surface

µmho/cm = micromhos per centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = nephelometric turbidity units

Table 4. Relative Percent Difference for Duplicate Samples, March 2018 (Results in µg/L)

Sample ID	Duplicate ID	Analyte	Result	Dup Result	MDL	RPD
PIN12-0524	PIN12-2198	1,1-dichloroethene	5.0	4.8	0.23	4.1
		1,4-dioxane	2.1	1.8	0.22	15.4
		<i>cis</i> -1,2-dichloroethene	260	270	1.5	3.8
		<i>trans</i> -1,2-dichloroethene	1.7	1.8	0.15	5.7
		Vinyl chloride	150	160	1.0	6.5
PIN12-0572-2	PIN12-2199	1,4-dioxane	1.5	1.5	0.22	0.0
PIN12-0574-2	PIN12-2200	2-butanone	180	170	2.0	5.7
		Acetone	560	500	7.6	11.3
		<i>cis</i> -1,2-dichloroethene	0.91	1.0	0.15	9.4
		Vinyl chloride	46	49	0.10	6.3
PIN12-0584-2	PIN12-2201	1,1-dichloroethene	70	55	1.2	24.0
		<i>cis</i> -1,2-dichloroethene	2000	1900	7.5	5.1
		<i>trans</i> -1,2-dichloroethene	15	13	0.75	14.3
		Vinyl chloride	590	670	5.0	12.7
PIN12-S68C	PIN12-2202	1,4-dioxane	3.4	3.1	0.22	9.2
		<i>cis</i> -1,2-dichloroethene	15	16	0.15	6.5
		Vinyl chloride	13	12	0.10	8.0

Abbreviations:

Dup = duplicate

MDL = method detection limit

µg/L = micrograms per liter

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b}

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
PIN12									
0524	27–37	9/13/2014	<0.32	500J	4.4J	9.8J	370J	1.6	885.8
		3/7/2015	<0.32	370	2.8	7	340	<0.44	719.8
		9/12/2015	<0.16	260	1.7	4.2	260	1.4	527.3
		3/5/2016	<0.16	170	1.5	3.1	300	1.6	476.2
		9/10/2016	<0.16	12	<0.15	<0.23	9.6	1.8	23.4
		3/4/2017	<0.32	250	1.9J	5.3J	230	1.2	488.4
		9/9/2017	<0.32	630	4.5	16	360	1.6	1012.1
		3/3/2018	<0.16	260	1.7	5	150	2.1	418.8
0525	12–22	9/13/2014	<0.16	1.1J	<0.15	<0.23	<0.1	3	4.1
		3/7/2015	<0.16	1.3	<0.15	<0.23	0.13J	4	5.43
		9/12/2015	<0.16	1.1	<0.15	<0.23	0.12J	3.4	4.62
		3/5/2016	<0.16	1.8	<0.15	<0.23	<0.1	3.4J	5.2
		9/10/2016	<0.16	1.5	<0.15	<0.23	<0.1	2.7	4.2
		3/4/2017	<0.16	27	0.16J	0.78J	5.8	3.4J	37.14
		9/9/2017	<0.16	2	<0.15	<0.23	0.41J	4.6	7.01
		3/3/2018	1.9	5.6	0.17J	<0.23	1.9	5.1	14.67
0539	9.5–19.5	9/16/2014	<0.16	<0.15	0.16J	<0.23	<0.1	<0.22	0.16
		3/9/2015	<0.16	0.29J	0.52J	<0.23	15	10	25.81
		9/15/2015	<0.16	0.16J	0.35J	<0.23	3.2	2.5	6.21
		3/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/8/2016	<0.16	<0.15	4	<0.23	10	25EJ	39
		3/3/2017	<0.16	<0.15	0.18J	<0.23	0.25J	0.46J	0.89
		9/14/2017	<0.16	<0.15	1.2	<0.23	6.2	11J	18.4
		3/2/2018	<0.16	<0.15	0.20J	<0.23	1.8	1.1J	3.1
0540	20–30	9/16/2014	<0.16	18	11	0.41J	260	190	479.41
		3/9/2015	<0.16	25	13	0.37J	250	190	478.37
		9/15/2015	<0.16	<0.15	7.7	<0.23	28	150	185.7
		3/9/2016	<0.16	11	11	<0.23	110	120	252
		9/8/2016	<0.32	<0.3	6.6	<0.46	44	67	117.6
		3/2/2017	<0.16	1.3	5.4	<0.23	47	45	98.7
		9/14/2017	<0.16	<0.15	8.1	<0.23	66	47	121.1
		3/2/2018	<0.16	<0.15	4.1	<0.23	17	45	66.1

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0541	10–20	9/15/2014	<0.16	<0.15	<0.15	<0.23	<0.1	0.67J	0.67
		3/9/2015	<0.16	0.31J	<0.15	<0.23	<0.1	2.2	2.51
		9/15/2015	<0.16	0.37J	<0.15	<0.23	<0.1	1.5	1.87
		3/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	0.3J	0.3
		9/14/2016	<0.16	0.41J	<0.15	<0.23	<0.1	1.8	2.21
		3/2/2017	<0.16	0.25J	<0.15	<0.23	<0.1	0.81J	1.06
		9/14/2017	<0.16	0.97J	<0.15	0.24J	0.29J	1.7	3.2
		3/6/2018	<0.16	1.1	<0.15	0.29J	0.42J	1.3J	3.11
0542	20–30	9/15/2014	<0.16	0.32J	<0.15	<0.23	<0.1	1.7	2.02
		3/9/2015	<0.16	0.44J	<0.15	<0.23	<0.1	2.6	3.04
		9/16/2015	<0.16	0.82J	<0.15	<0.23	<0.1	2.9	3.72
		3/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	0.6J	0.6
		9/14/2016	<0.16	0.6J	<0.15	<0.23	<0.1	2.3	2.9
		3/2/2017	<0.16	0.69J	<0.15	<0.23	<0.1	1.3	1.99
		9/14/2017	<0.16	0.91J	<0.15	<0.23	<0.1	3.1	4.01
		3/6/2018	<0.16	1.2	<0.15	0.32J	0.29J	1.6J	3.41
0549	30–40	9/15/2014	<0.16	0.27J	<0.15	<0.23	<0.1	4.7	4.97
		3/9/2015	<0.16	0.28J	<0.15	<0.23	<0.1	3.2	3.48
		9/16/2015	<0.16	0.31J	<0.15	<0.23	<0.1	3.2	3.51
		3/9/2016	<0.16	0.5J	<0.15	<0.23	<0.1	5	5.5
		9/14/2016	<0.16	0.31J	<0.15	<0.23	<0.1	2.5	2.81
		3/2/2017	<0.16	0.41J	<0.15	<0.23	<0.1	2.9	3.31
		9/14/2017	<0.16	0.39J	<0.15	<0.23	<0.1	4.2	4.59
		3/6/2018	<0.16	0.47J	<0.15	<0.23	<0.10	3.6	4.07
0551-1	9–18	9/15/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
0551-2	20–29	9/18/2014	<0.16	<0.15	<0.15	<0.23	<0.1	1.9	1.9
		3/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/15/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/8/2016	<0.16	<0.15	<0.15	<0.23	0.2J	0.23J	0.43
		9/13/2016	<0.16	<0.15	<0.15	<0.23	1.7	1.8	3.5
		3/6/2017	<0.16	<0.15	<0.15	<0.23	2.2	2.6	4.8
		9/12/2017	<0.16	0.16J	<0.15	<0.23	14	12	26.16
		3/7/2018	<0.16	0.18J	<0.15	<0.23	6.6	8.5	15.28

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0554A	3–13	9/12/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/6/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	0.34J	0.34
		3/1/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/5/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22J	ND
0554B	13–23	9/12/2014	<0.16	0.35J	<0.15	<0.23	<0.1	1.8	2.15
		3/6/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/8/2016	<0.16	1.8	0.25J	<0.23	4	4.7	10.75
		9/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	0.69J	0.69
		3/1/2017	<0.16	0.35J	<0.15	<0.23	1.5	4	5.85
		9/12/2017	<0.16	<0.15	<0.15	<0.23	0.63J	2.4	3.03
		3/6/2018	<0.16	0.16J	<0.15	<0.23	1.3	8.5	9.96
0554C	23–33	9/15/2014	<0.16	15	4.8	0.67J	51	49	120.47
		3/6/2015	<0.16	16	4.7	0.59J	54	67	142.29
		3/8/2016	<0.16	17	5.4	0.75J	47	55	125.15
		9/8/2016	<0.16	11	4.7	0.44J	48	37	101.14
		3/2/2017	<0.16	0.33J	2.4	<0.23	14	80	96.73
		9/12/2017	<0.16	<0.15	1.4	<0.23	5.1	130	136.5
		3/5/2018	<0.16	1.9	2.4	<0.23	51	120	175.3
0555A	2.5–12.5	9/12/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/6/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/16/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/1/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.46J	0.46
		3/5/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0555B	13–23	9/12/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/6/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/16/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/1/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/5/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0555C	23–33	9/12/2014	<0.16	1	0.37J	<0.23	<0.1	<0.22	1.37
		3/6/2015	<0.16	0.96J	0.32J	<0.23	<0.1	<0.22	1.28
		9/16/2015	<0.16	1	0.34J	<0.23	<0.1	0.27J	1.61
		3/7/2016	<0.16	<1.3	0.47J	<0.23	<0.1	0.33J	0.8
		9/8/2016	<0.16	0.9J	0.27J	<0.23	<0.1	<0.22	1.17
		3/1/2017	<0.16	0.84J	0.26J	<0.23	<0.1	<0.22	1.1
		9/12/2017	<0.16	1	0.34J	<0.23	<0.1	0.43J	1.77
		3/5/2018	<0.16	1	0.28J	<0.23	<0.10	0.62J	1.9
0561-1	9–18	9/13/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/5/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/10/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/4/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/13/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0561-2	20–29	9/13/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/5/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/10/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/4/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/13/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0561-3	31–40	9/13/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2015	<0.16	<0.15	<0.15	<0.23	<0.1	0.6J	0.6
		3/5/2016	<0.16	<0.15	<0.15	<0.23	<0.1	0.35J	0.35
		9/10/2016	<0.16	<0.15	<0.15	<0.23	<0.1	0.77J	0.77
		3/4/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.24J	0.24
		9/13/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.54J	0.54
		3/3/2018	<0.16	<0.15	<0.15	<0.23	<0.10	0.46J	0.46
0565-1	9–18	9/11/2014	<0.16	0.18J	<0.15	<0.23	<0.1	<0.22	0.18
		3/5/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/14/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2017	<0.16	0.59J	0.16J	<0.23	0.25J	<0.22	1
		9/13/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.31J	0.31
		3/1/2018	<0.16	0.20J	<0.15	<0.23	0.18J	<0.22	0.38

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0565-2	20–29	9/11/2014	<0.16	0.57J	<0.15	<0.23	0.38J	0.51J	1.46
		3/5/2015	<0.16	0.32J	<0.15	<0.23	0.16J	<0.22	0.48
		9/14/2015	<0.16	0.38J	<0.15	<0.23	<0.1	1.7	2.08
		3/3/2016	<0.16	0.49J	<0.15	<0.23	0.49J	0.31J	1.29
		9/12/2016	<0.16	0.27J	<0.15	<0.23	<0.1	<0.22	0.27
		3/7/2017	<0.16	0.21J	<0.15	<0.23	<0.1	<0.22	0.21
		9/13/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.64J	0.64
		3/1/2018	<0.16	0.58J	0.16J	<0.23	0.33J	0.28J	1.35
0565-3	31–40	9/11/2014	<0.16	0.62J	0.2J	<0.23	<0.1	0.25J	1.07
		3/5/2015	<0.16	0.5J	0.18J	<0.23	0.19J	<0.22	0.87
		9/14/2015	<0.16	0.49J	0.16J	<0.23	<0.1	0.42J	1.07
		3/5/2016	<0.16	<0.55J	0.19J	<0.23	<0.1	0.24J	0.43
		9/12/2016	<0.16	0.55J	0.17J	<0.23	<0.1	<0.22	0.72
		3/7/2017	<0.16	0.23J	<0.15	<0.23	<0.1	<0.22	0.23
		9/13/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/1/2018	<0.16	<0.15	<0.15	<0.23	0.10J	<0.22	0.1
0568-1	9–18	9/16/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/9/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/15/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/10/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0568-2	20–29	9/16/2014	<0.16	<0.15	<0.15	<0.23	<0.1	1.5	1.5
		3/9/2015	<0.16	<0.15	<0.15	<0.23	<0.1	1.5	1.5
		9/15/2015	<0.16	<0.15	<0.15	<0.23	<0.1	1.2	1.2
		3/7/2016	<0.16	<0.15	<0.15	<0.23	<0.1	0.79J	0.79
		9/10/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2018	<0.16	<0.15	<0.15	<0.23	<0.10	0.35J	0.35
0568-3	31–40	9/16/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/9/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/15/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/10/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0569-1	9–18	9/16/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/9/2015	<0.16	<0.15	<0.15	<0.23	0.14J	<0.22	0.14
		9/15/2015	<0.16	<0.15	<0.15	<0.23	<0.1	0.52J	0.52
		3/5/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2017	<0.16	0.42J	<0.15	<0.23	0.65J	0.28J	1.35
		9/9/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0569-2	20–29	9/16/2014	<0.16	1.1	<0.15	<0.23	5.2	1.8	8.1
		3/9/2015	<0.16	0.79J	<0.15	<0.23	4.1	1.9	6.79
		9/15/2015	<0.16	1	<0.15	<0.23	4.2	1.5J	6.7
		1/14/2016	<0.16	1.9	<0.15	<0.23	4.9	--	6.8
		3/5/2016	<0.16	<1.5	<0.15	<0.23	7.4	1.5	8.9
		9/9/2016	<0.16	0.7J	<0.15	<0.23	2.2	1.9	4.8
		3/7/2017	<0.16	2.3	<0.15	<0.23	3.1	1.8	7.2
		9/9/2017	<0.16	1.4	<0.15	<0.23	2.6	1.9	5.9
		3/3/2018	<0.16	0.66J	<0.15	<0.23	2.1	2.8	5.56
0569-3	31–40	9/16/2014	<0.16	28	0.37J	1	37	1.8	68.17
		3/9/2015	<0.16	18	0.25J	0.65J	27	1.8	47.7
		9/15/2015	<0.16	21	0.38J	0.93J	33	1.8J	57.11
		3/5/2016	<0.16	<0.15	<0.15	<0.23	22	0.83J	22.83
		9/9/2016	<0.16	<0.15	<0.15	<0.23	5.5	1.5	7
		3/7/2017	<0.16	<0.15	<0.15	<0.23	3.3	0.76J	4.06
		9/9/2017	<0.16	<0.15	<0.15	<0.23	2.4	1.7	4.1
		3/3/2018	<0.16	<0.15	<0.15	<0.23	1.1	0.92J	2.02
0570-1	9–18	9/17/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/9/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/15/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/10/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/13/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/2/2018	<0.16	<0.15	<0.15	<0.23	<0.10	0.24J	0.24

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0570-2	20–29	9/17/2014	<0.16	<0.15	<0.15	<0.23	<0.1	2.4	2.4
		3/9/2015	<0.16	<0.15	<0.15	<0.23	0.66J	1.4	2.06
		9/15/2015	<0.16	<0.15	<0.15	<0.23	0.71J	1.2J	1.91
		3/7/2016	<0.16	<0.15	<0.15	<0.23	1.7	1.2	2.9
		9/10/2016	<0.16	<0.15	<0.15	<0.23	0.52J	0.99J	1.51
		3/7/2017	<0.16	<0.15	<0.15	<0.23	0.89J	1.2	2.09
		9/13/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.62J	0.62
		3/2/2018	<0.16	<0.15	<0.15	<0.23	1.2	1.6J	2.8
0570-3	31–40	9/17/2014	<0.16	<0.15	<0.15	<0.23	2.2	3	5.2
		3/9/2015	<0.16	<0.15	<0.15	<0.23	3.6	2.2	5.8
		9/15/2015	<0.16	0.19J	<0.15	<0.23	3.5	1.6J	5.29
		3/7/2016	<0.16	<0.17J	<0.15	<0.23	4.9	1.1	6
		9/10/2016	<0.16	<0.15	<0.15	<0.23	2.7	1.1	3.8
		3/7/2017	<0.16	<0.15	<0.15	<0.23	1.9	0.89J	2.79
		9/13/2017	<0.16	<0.15	<0.15	<0.23	1.6	1J	2.6
		3/2/2018	<0.16	<0.15	<0.15	<0.23	1.9	0.85J	2.75
0572-1	9–18	9/16/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/10/2015	<0.16	<0.15	<0.15	<0.23	<0.1	0.45J	0.45
		9/15/2015	<0.16	0.18J	<0.15	<0.23	<0.1	<0.22	0.18
		3/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2017	<0.16	<0.15	<0.15	<0.23	0.94J	1.9	2.84
		9/7/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		2/28/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0572-2	20–29	9/16/2014	<0.16	120	1.2	5.1	30	1.1	157.4
		9/15/2015	<0.16	0.62J	<0.15	<0.23	28	5.6J	34.22
		1/14/2016	<0.16	1.9	<0.15	<0.23	20	--	21.9
		3/8/2016	<0.16	0.6J	<0.15	<0.23	22	1.9	24.5
		9/12/2016	<0.16	<0.15	<0.15	<0.23	1.4J	2.1	3.5
		3/7/2017	<0.16	<0.15	<0.15	<0.23	1	2	3
		9/7/2017	<0.16	<0.15	<0.15	<0.23	8.3	1.7J	10
		2/28/2018	<0.16	<0.15	<0.15	<0.23	0.41J	1.5J	1.91
0573-1	9–18	9/11/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/5/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/15/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/8/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/1/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level^d			30	700	1000	70	10	32	
0573-2	20–29	9/11/2014	<0.16	<0.15	<0.15	<0.23	<0.1	0.25J	0.25
		3/5/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/15/2015	<0.16	<0.15	<0.15	<0.23	<0.1	0.5J	0.5
		3/3/2016	<0.16	<0.15	<0.15	<0.23	<0.1	0.28J	0.28
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	0.78J	0.78
		3/7/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.47J	0.47
		9/8/2017	<0.16	<0.15	<0.15	<0.23	0.52J	0.43J	0.95
		3/1/2018	<0.16	<0.15	<0.15	<0.23	0.71J	0.74J	1.45
0573-3	31–40	9/11/2014	<0.16	<0.15	<0.15	<0.23	<0.1	0.22J	0.22
		3/5/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/15/2015	<0.16	<0.15	<0.15	<0.23	<0.1	0.55J	0.55
		3/3/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/8/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/1/2018	<0.16	<0.15	<0.15	<0.23	<0.10	0.62J	0.62
0574-1	9–18	9/11/2014	<0.16	11	0.15J	<0.23	14	1.2	26.35
		3/5/2015	<0.16	11	0.15J	<0.23	11	1.8	23.95
		9/14/2015	<0.16	21	0.26J	0.31J	22	1.1	44.67
		1/13/2016	<0.16	38	0.46J	1.6	22	--	62.06
		3/3/2016	<0.16	48	0.57J	2.2	23	1.2	74.97
		9/12/2016	<0.16	88	0.8J	4.6	31J	1.7	126.1
		3/7/2017	<0.16	110	0.91J	5.4	38	1.4	155.71
		9/13/2017	<0.16	110	0.83J	4.1	38	1.4	154.33
0574-2	20–29	3/1/2018	<0.16	86	0.95J	3.4	46	2.1J	138.45
		9/11/2014	<0.16	22	0.31J	0.47J	23	1.4	47.18
		3/5/2015	<0.16	30	0.42J	1	18	1.8	51.22
		9/14/2015	<0.16	77	1.2	4.9	46	1.5	130.6
		1/13/2016	<0.16	190	2.4	11	54	--	257.4
		3/3/2016	<0.16	200	2.1	10	49	1.9	263
		9/12/2016	<0.16	250	2.5	13	50J	2	317.5
		3/7/2017	<0.16	300	2.9	14	62	1.9	380.8
		9/13/2017	<0.16	230	2.5	12	71	2.2	317.7
		3/1/2018	<0.16	0.91J	0.50J	<0.23	46	2.5J	49.91

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0574-3	31–40	9/11/2014	<0.16	0.2J	<0.15	<0.23	0.7J	<0.22	0.9
		3/5/2015	<0.16	0.23J	<0.15	<0.23	0.71J	<0.22	0.94
		9/14/2015	<0.16	0.27J	<0.15	<0.23	2.1	0.49J	2.86
		1/13/2016	<0.16	0.47J	<0.15	<0.23	2.2	--	2.67
		3/3/2016	<0.16	0.38J	<0.15	<0.23	3.4	<0.22	3.78
		9/12/2016	<0.16	0.24J	<0.15	<0.23	2.8J	<0.22	3.04
		3/7/2017	<0.16	1.8	<0.15	<0.23	5.5	<0.22	7.3
		9/13/2017	<0.16	0.26J	<0.15	<0.23	3.7	<0.22	3.96
		3/1/2018	<0.16	0.22J	<0.15	<0.23	6.6	0.60J	7.42
0575-1	9–18	9/11/2014	<0.16	<0.15	<0.15	<0.23	<0.1	1.4	1.4
		3/10/2015	<0.16	<0.15	<0.15	<0.23	<0.1	2.4	2.4
		9/14/2015	<0.16	<0.15	<0.15	<0.23	<0.1	1.3	1.3
		1/14/2016	<0.16	<0.15	<0.15	<0.23	0.42J	--	0.42
		3/3/2016	<0.16	<0.15	<0.15	<0.23	0.26J	1.4	1.66
		9/12/2016	<0.16	<0.15	<0.15	<0.23	<0.1	1.8	1.8
		3/7/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.9J	0.9
		9/8/2017	<0.16	<0.15	<0.15	<0.23	0.44J	1.1J	1.54
		2/28/2018	<0.16	<0.15	<0.15	<0.23	0.53J	1.2J	1.73
0575-2	20–29	9/11/2014	<0.16	<0.15	<0.15	<0.23	1.2	0.75J	1.95
		3/10/2015	<0.16	<0.15	<0.15	<0.23	1.3	<0.22	1.3
		9/14/2015	<0.16	0.16J	<0.15	<0.23	1.6	<0.22	1.76
		1/14/2016	<0.16	0.16J	<0.15	<0.23	1.7	--	1.86
		3/3/2016	<0.16	<0.15	<0.15	<0.23	1.5	1.4	2.9
		9/12/2016	<0.16	0.16J	<0.15	<0.23	1.8J	0.91J	2.87
		3/7/2017	<0.16	0.19J	<0.15	<0.23	2.3	0.97J	3.46
		9/8/2017	<0.16	0.19J	<0.15	<0.23	2.3	0.6J	3.09
		2/28/2018	<0.16	0.25J	<0.15	<0.23	2.7	0.95J	3.9
0576-1	4–13	9/15/2014	<0.16	6.4	0.25J	2	9.5	33	51.15
		3/11/2015	<0.16	4.9	0.16J	1.1	8	36	50.16
		9/12/2015	<0.16	4.1	0.16J	0.54J	6.7	64B	75.5
		3/8/2016	<0.16	1.5	<0.15	<0.23	5.4	48	54.9
		9/13/2016	<0.16	0.17J	<0.15	<0.23	<0.1	23	23.17
		3/6/2017	<0.16	0.45J	<0.15	<0.23	3.6	51	55.05
		9/12/2017	<0.16	<0.15	<0.15	<0.23	1.1	33	34.1
		3/7/2018	<0.16	1.4	0.38J	<0.23	7.7	31	40.48

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0576-2	15–24	9/15/2014	<0.16	7.1	0.28J	1.6	9.2	32	50.18
		9/12/2015	<0.16	8.1	0.4J	1.7	15	19B	44.2
		1/13/2016	<0.16	8.1	0.55J	1.8	17	--	27.45
		3/8/2016	<0.16	8.4	0.44J	1.7	19J	32J	61.54
		9/13/2016	<0.16	7.9	0.43J	1.6	16	41	66.93
		3/6/2017	<0.16	7.6	0.66J	1	16J	38J	63.26
		9/12/2017	<0.16	0.72J	0.19J	<0.23	6.1J	38	45.01
		3/7/2018	<0.16	2.6	0.66J	0.35J	14	28	45.61
0576-3	26–35	9/15/2014	<0.16	0.54J	<0.15	<0.23	0.93J	<0.22	1.47
		3/11/2015	<0.16	0.34J	<0.15	<0.23	0.62J	<0.22	0.96
		9/12/2015	<0.16	0.22J	<0.15	<0.23	0.5J	<0.22	0.72
		3/8/2016	<0.16H	<0.72JH	<0.15H	<0.23H	1.3H	4	5.3
		9/13/2016	<0.16	0.26J	<0.15	<0.23	1.3	1.6	3.16
		3/7/2018	<0.16	0.21J	<0.15	<0.23	<0.10	3.3	3.51
0577-1	4–13	9/15/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2015	<0.16	<0.15	<0.15	<0.23	<0.1	--	ND
		3/7/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/4/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
0577-2	15–24	3/5/2018	<0.16	<0.15	<0.15	<0.23	<0.10	0.30J	0.3
		9/15/2014	0.49J	<0.15	<0.15	<0.23	<0.1	<0.22	0.49
		3/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.39JB	ND
		3/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/4/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.44J	0.44
0577-3	26–35	3/5/2018	<0.16	<0.15	<0.15	<0.23	<0.10	0.24J	0.24
		9/15/2014	0.42J	<0.15	<0.15	<0.23	<0.1	<0.22	0.42
		3/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.44JB	ND
		3/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/4/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/5/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0578-1	4–13	9/16/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/10/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/16/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/6/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/6/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0578-2	15–24	9/16/2014	<0.16	<0.15	<0.15	<0.23	<0.1	0.35J	0.35
		3/10/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/16/2015	<0.16	<0.15	<0.15	<0.23	<0.1	0.6J	0.6
		3/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/6/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.24J	0.24
		3/6/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0578-3	26–35	9/16/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/10/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/16/2015	<0.16	<0.15	<0.15	<0.23	<0.1	0.46J	0.46
		3/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/6/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/6/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0579-1	4–13	9/15/2014	0.29J	<0.15	<0.15	<0.23	<0.1	<0.22	0.29
		3/10/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/7/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/4/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/5/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0579-2	15–24	9/15/2014	0.27J	<0.15	<0.15	<0.23	<0.1	<0.22	0.27
		3/10/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.54JB	ND
		3/7/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/4/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/5/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0579-3	26–35	9/15/2014	0.25J	<0.15	<0.15	<0.23	<0.1	<0.22	0.25
		3/10/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.37JB	ND
		3/7/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/4/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/5/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0580-1	9–18	9/16/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/10/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.29J	0.29
		3/7/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
0580-2	20–29	9/16/2014	<0.16	17	6.7	<0.23	170	150	343.7
		3/10/2015	<0.16	17	6.9	<0.23	170	160	353.9
		9/11/2015	<0.16	23	9.3	0.31J	190	160	382.61
		1/19/2016	<0.32	18	7.8	<0.46	200	--	225.8
		3/8/2016	<0.16	17	7.1	0.23J	210	180	414.33
		9/12/2016	<0.16	12	6.3	<0.23	190	210	418.3
		3/3/2017	<0.16	1.9	3.9	<0.23	22	82	109.8
		9/12/2017	<0.16	2.7	7.5	<0.23	150	150	310.2
		3/7/2018	<0.16	1.9	5.9	<0.23	89	150	246.8
0580-3	31–40	9/16/2014	<0.16	16	3.4	0.23J	45	34	98.63
		3/10/2015	<0.16	18	3.8	0.23J	38	35	95.03
		9/11/2015	<0.16	18	4	0.31J	45	39	106.31
		3/8/2016	<0.16	17	3.7	0.3J	46	27	94
		9/12/2016	<0.16	17	3.6	0.23J	46J	39	105.83
		3/3/2017	<0.16	16	3.2	<0.23	39	25	83.2
		9/12/2017	<0.16	19	3.7	0.27J	52	50	124.97
		3/7/2018	<0.16	16	3.4	<0.23	40	38	97.4

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0581-1	9–18	9/15/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/9/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/13/2017	<0.16	<0.15	<0.15	<0.23	1.4	1.6	3
		3/5/2018	<0.16	<0.15	<0.15	<0.23	0.28J	0.37J	0.65
0581-2	20–29	9/15/2014	<0.16	1.7	<0.15	<0.23	3.4	9.5	14.6
		3/9/2015	<0.16	2.6	0.26J	0.27J	7.2	10	20.33
		9/11/2015	<0.16	6.3	0.84J	0.69J	22	34J	63.83
		3/9/2016	<0.16	0.84J	0.17J	<0.23	3.7	5.9	10.61
		9/9/2016	<0.16	2.3	1.1	<0.23	22	75	100.4
		3/3/2017	<0.16	1.5	1	<0.23	26	64	92.5
		9/13/2017	<0.16	4.7	3.7	<0.23	86	160	254.4
		3/5/2018	<0.16	6.3	4.5	<0.23	76	270	356.8
0581-3	31–40	9/15/2014	<0.16	0.63J	<0.15	<0.23	<0.1	4.2	4.83
		3/9/2015	<0.16	0.55J	<0.15	<0.23	0.56J	2.3	3.41
		9/11/2015	<0.16	0.46J	<0.15	<0.23	1	1.9	3.36
		3/9/2016	<0.16	1.4	<0.15	<0.23	2.8	8.9	13.1
		9/9/2016	<0.16	0.33J	<0.15	<0.23	1.3	9.5	11.13
		3/3/2017	<0.16	0.39J	<0.15	<0.23	1.1	2.5	3.99
		9/13/2017	<0.16	0.28J	<0.15	<0.23	2.1	2.3	4.68
		3/5/2018	<0.16	0.74J	<0.15	<0.23	2.5	3.6	6.84
0582-1	9–18	9/15/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/9/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/8/2016	<0.16	2.8	0.48J	<0.23	31	27	61.28
		3/3/2017	<0.16	<0.15	<0.15	<0.23	1.1	0.3J	1.4
		9/14/2017	<0.16	5.8	1.2	<0.23	42	21	70
		3/5/2018	<0.16	0.26J	0.15J	<0.23	1.8	1.1J	3.31

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0582-2	20–29	9/15/2014	<0.16	21	5.3J	0.35J	250	290J	566.65
		3/9/2015	<0.16	21	7.5	0.39J	250	330	608.89
		9/11/2015	<0.16	0.59J	8.3	<0.23	59	350	417.89
		1/14/2016	<0.16	0.51J	5.8	<0.23	62	--	68.31
		3/9/2016	<0.16	<0.15	2.7	<0.23	22	130	154.7
		9/9/2016	<0.16	7.2	7.2	<0.23	120	110J	244.4
		3/3/2017	<0.16	6.4	7	<0.23	170	140J	323.4
		9/14/2017	<0.16	9	9.8	<0.23	120J	98J	236.8
		3/5/2018	<0.16	0.41J	7.7	<0.23	47	47J	102.11
0582-3	31–40	9/15/2014	<0.16	0.89J	<0.15	<0.23	3.3	3.3	7.49
		3/9/2015	<0.16	1.7	0.41J	<0.23	11	3.5	16.61
		9/11/2015	<0.16	0.91J	0.2J	<0.23	3.3	2.9	7.31
		3/9/2016	<0.16	1.3	0.19J	<0.23	4.5	6.5	12.49
		9/9/2016	<0.16	0.68J	0.21J	<0.23	7.5	5.5	13.89
		3/3/2017	<0.16	1.4	0.66J	<0.23	15	13	30.06
		9/14/2017	<0.16	0.4J	0.32J	<0.23	6.2J	6.9	13.82
		3/5/2018	<0.16	0.41J	0.40J	<0.23	2.5	18	21.31
0583-1	9–18	9/16/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/10/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/2/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/8/2017	<0.16	<0.15	<0.15	<0.23	0.81J	<0.22	0.81
		3/2/2018	<0.16	<0.15	<0.15	<0.23	1.8	0.34J	2.14
0583-2	20–29	9/16/2014	<0.16	0.29J	0.72J	<0.23	6	3	10.01
		3/10/2015	<0.16	0.26J	0.37J	<0.23	5.7	3.7	10.03
		9/11/2015	<0.16	<0.15	0.34J	<0.23	3.7	2.2	6.24
		3/9/2016	<0.16	<0.15	0.25J	<0.23	6.7	2.8	9.75
		9/8/2016	<0.16	0.18J	0.32J	<0.23	5.1	2.1B	7.7
		3/2/2017	<0.16	0.24J	0.39J	<0.23	9.9	2.6	13.13
		9/8/2017	<0.16	1.9	1.7	<0.23	11	4.1	18.7
		3/2/2018	<0.16	2.7	1.9	<0.23	7.5	3.8	15.9

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0583-3	31–40	9/16/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/10/2015	<0.16	<0.15	<0.15	<0.23	0.16J	<0.22	0.16
		9/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/9/2016	<0.16	<0.15	<0.15	<0.23	0.86J	0.4J	1.26
		9/8/2016	<0.16	<0.15	<0.15	<0.23	0.1J	<0.22	0.1
		3/2/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.41J	0.41
		9/8/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/2/2018	<0.16	<0.15	<0.15	<0.23	<0.10	0.35J	0.35
0584-1	9–18	9/13/2014	<0.16	<0.15	<0.15	<0.23	<0.1	1.8	1.8
		3/7/2015	<0.16	<0.15	<0.15	<0.23	<0.1	2.4	2.4
		9/12/2015	<0.16	<0.15	<0.15	<0.23	0.14J	0.8J	0.94
		3/5/2016	<0.16	<0.15	<0.15	<0.23	<0.1	1.5	1.5
		9/10/2016	<0.16	<0.15	<0.15	<0.23	0.19J	<0.87JB	0.19
		3/4/2017	<0.16	2.8	<0.15	<0.23	10	3.3	16.1
		9/9/2017	<0.16	<0.15	<0.15	<0.23	1.3	1.8	3.1
		3/3/2018	<0.16	<0.15	<0.15	<0.23	1.5	2.1	3.6
0584-2	20–29	9/13/2014	<0.16	0.76J	<0.15	<0.23	5.2	0.89J	6.85
		3/7/2015	<0.16	1.8	<0.15	<0.23	11	0.89J	13.69
		9/12/2015	<0.16	2.5	<0.15	<0.23	34	<0.22	36.5
		3/5/2016	<0.16	12	0.49J	<0.23	97	0.89J	110.38
		9/10/2016	<0.16	39	1.2	0.76J	150	<1.2B	190.96
		3/4/2017	<0.32	560	5.7	14	390	1.2J	970.9
		9/9/2017	<0.32	540	8.1	16	410	1.7	975.8
		3/3/2018	<0.80	2000	15	70J	590	3.3J	2678.3
0584-3	31–40	9/13/2014	<0.16	0.53J	<0.15	<0.23	7.8	<0.22	8.33
		3/7/2015	<0.16	0.96J	<0.15	<0.23	10	<0.22	10.96
		9/12/2015	<0.16	1	<0.15	<0.23	23	0.33J	24.33
		3/5/2016	<0.16	<0.94J	<0.15	<0.23	57	<0.22	57
		9/10/2016	<0.16	2	0.38J	<0.23	56	<1.1B	58.38
		3/3/2018	<0.16	0.25J	<0.15	<0.23	<0.10	2.6	2.85
0585-1	9–18	9/13/2014	<0.16	1.2	<0.15	<0.23	<0.1	3.8	5
		3/7/2015	1.4	24	0.45J	1.7	14	5.1	46.65
		9/12/2015	0.23J	3.9	0.24J	0.34J	1.9	4.2B	10.81
		3/5/2016	<0.16	<1.6	1.8	<0.23	57	5.7	64.5
		9/10/2016	<0.16	<0.15	0.42J	<0.23	2	5B	7.42
		3/4/2017	0.64J	1.7	4.9	<0.23	21	6.6	34.84
		9/9/2017	2	46	1.1	2.4	25	5.8	82.3
		3/3/2018	<0.16	<0.15	0.26J	<0.23	1.1	6.6	7.96

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0585-2	20–29	9/13/2014	1700	6300	59	540	900	4.6	9503.6
		3/7/2015	<3.2	4600	36	180	2100	9.1	6925.1
		9/12/2015	30	3600	44	150	4800	5.9BJ	8629.9
		1/19/2016	29J	2900	75	130	3400	--	6534
		3/5/2016	230	2800	41	170	2100	4.3J	5345.3
		9/10/2016	350	3400	48	190	2100	2.8BJ	6090.8
		3/4/2017	440J	4500J	60	190	3200J	<4.4	8390
		9/9/2017	430	5200J	63	290	1900	2J	7885
		3/3/2018	1600	9000	73	530	2300	9.5J	13,512.5
0585-3	31–40	9/13/2014	29	540	12	22	1400	2.3	2005.3
		3/7/2015	4.1	48	5.5	1.6J	490	<0.22	549.2
		9/12/2015	<0.64	19	5.7	<0.92	510J	2.4BJ	537.1
		3/5/2016	0.61J	<1.5	5.4	<0.23	130	2.8	138.81
		9/10/2016	0.19J	0.41J	4.2	<0.23	39	3.4B	47.2
		3/4/2017	3.1	3.7	1.3	<0.23	2.9	<0.22	11
		9/9/2017	<0.16	0.75J	0.89J	<0.23	0.81J	<4.4	2.45
		3/3/2018	0.94J	1	1.1	<0.23	0.84J	3.7	7.58
0586-1	8–17	9/18/2014	<0.16	0.28J	<0.15	<0.23	<0.1	10	10.28
		3/12/2015	<0.16	0.55J	<0.15	<0.23	0.68J	1.2	2.43
		9/15/2015	<0.16	0.67J	<0.15	<0.23	2	0.57J	3.24
		3/4/2016	<0.16	0.37J	<0.15	<0.23	2.4	<0.22	2.77
		9/13/2016	<0.16	1.2	<0.15	<0.23	2.8	0.52J	4.52
		3/6/2017	<0.16	0.24J	<0.15	<0.23	<0.1	0.24J	0.48
		3/7/2018	<0.16	0.21J	<0.15	<0.23	0.67J	<0.22	0.88
0586-2	19–28	9/18/2014	<0.16	10	<0.15	0.52J	5	3.6	19.12
		3/12/2015	<0.16	11	<0.15	0.42J	6.4	1.8	19.62
		9/15/2015	<0.16	11	<0.15	0.33J	8.3	1.5J	21.13
		1/19/2016	<0.16	15	<0.15	0.52J	8.6	--	24.12
		3/4/2016	<0.16	12	<0.15	0.48J	9	0.86J	22.34
		9/13/2016	<0.16	18	0.21J	0.65J	14	1.1	33.96
		3/6/2017	<0.16	3.2	<0.15	<0.23	4.1	0.27J	7.57
		9/14/2017	<0.16	0.99J	<0.15	<0.23	6.1	1.2J	8.29
0586-3	30–39	3/7/2018	<0.16	0.73J	<0.15	<0.23	8.6	0.61J	9.94
		9/18/2014	<0.16	<0.15	<0.15	<0.23	5.2	0.47J	5.67
		3/12/2015	<0.16	<0.15	<0.15	<0.23	5.7	1.7	7.4
		9/15/2015	<0.16	<0.15	<0.15	<0.23	5.5	1.2J	6.7
		3/4/2016	<0.16	<0.15	<0.15	<0.23	3.7	0.67J	4.37
		9/13/2016	<0.16	0.2J	<0.15	<0.23	1.9	0.61J	2.71

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
0587-1	9–18	9/18/2014	<0.16	60	0.94J	2.2	86	0.7J	149.84
		3/12/2015	<0.16	2	0.27J	<0.23	4.4	<0.22	6.67
		9/13/2015	<0.16	0.2J	<0.15	<0.23	<0.1	<0.22	0.2
		3/4/2016	<0.16	<0.15	0.15J	<0.23	0.17J	<0.22	0.32
		9/13/2016	<0.16	0.17J	<0.15	<0.23	<0.1	0.43J	0.6
		3/6/2017	<0.16	<0.15	<0.15	<0.23	0.22J	<0.22	0.22
		9/14/2017	<0.16	<0.15	0.17J	<0.23	<0.1	0.29J	0.46
		3/7/2018	<0.16	<0.15	0.23J	<0.23	0.17J	0.47J	0.87
0587-2	20–29	9/18/2014	360J	7600	50	400J	1500	5.2	9915.2
		3/12/2015	62	4300	43	210J	1900	<0.88	6515
		9/13/2015	10	100J	23	15	360	7.5B	515.5
		1/19/2016	4.5	60	14	6.2	110	--	194.7
		3/4/2016	3.4	36	15	4.1	100	6	164.5
		9/13/2016	0.75J	15	7.8	0.86J	17	13J	54.41
		9/14/2017	0.47J	14	2	<0.23	16	7.3	39.77
		3/7/2018	<0.64	70	8.1	1.1J	540	3.7	622.9
0587-3	31–40	9/18/2014	0.81J	260	3.9	13	550	3.2	830.91
		3/12/2015	0.27J	13	0.37J	0.29J	73	<0.88	86.93
		9/13/2015	<0.16	7.9	0.43J	<0.23	40	3B	51.33
		3/4/2016	<0.16	0.33J	0.29J	<0.23	1.3	2.5	4.42
		9/13/2016	<0.16	<0.15	<0.15	<0.23	<0.1	2.7	2.7
		3/6/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
0588-1	9–18	9/18/2014	<0.16	0.23J	<0.15	<0.23	0.26J	<0.22	0.49
		3/12/2015	<0.16	0.16J	<0.15	<0.23	0.89J	9.8	10.85
		9/13/2015	<0.16	0.2J	<0.15	<0.23	1.5	1.5B	3.2
		3/7/2016	<0.16	<0.15	<0.15	<0.23	0.97J	<0.22	0.97
		9/13/2016	<0.16	0.25J	<0.15	<0.23	1.2	0.47J	1.92
		3/6/2017	<0.16	0.41J	<0.15	<0.23	0.43J	<0.22	0.84
		9/13/2017	<0.16	0.25J	<0.15	<0.23	0.68J	<0.22	0.93
		3/7/2018	<0.16	<0.15	<0.15	<0.23	0.69J	<0.22	0.69
0588-2	20–29	9/18/2014	<0.16	1.3	<0.15	<0.23	2.6	8.7	12.6
		3/12/2015	<0.16	2.8	<0.15	<0.23	3.5	12	18.3
		9/13/2015	<0.16	4.8	<0.15	<0.23	5.2	6.5B	16.5
		3/7/2016	<0.16	18	0.27J	<0.23	20	3.5	41.77
		9/13/2016	<0.16	18	0.19J	<0.23	19	2.8	39.99
		3/6/2017	<0.16	16	0.18J	<0.23	16	2.3	34.48
		9/13/2017	<0.16	1.1	0.67J	<0.23	4.8	3.1	9.67
		3/7/2018	<0.16	<0.15	<0.15	<0.23	2.2	4.8	7

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level^d			30	700	1000	70	10	32	
0588-3	31–40	9/18/2014	<0.16	0.24J	<0.15	<0.23	0.62J	1.2	2.06
		3/12/2015	<0.16	0.2J	<0.15	<0.23	0.82J	3	4.02
		9/13/2015	<0.16	0.26J	<0.15	<0.23	1.4	0.75JB	2.41
		3/7/2016	<0.16	<0.15	<0.15	<0.23	1	<0.22	1
		9/13/2016	<0.16	0.23J	<0.15	<0.23	1.5	0.88J	2.61
		3/6/2017	<0.16	0.27J	<0.15	<0.23	0.7J	<0.22	0.97
		9/13/2017	<0.16	0.15J	<0.15	<0.23	1.1	0.43J	1.68
		3/7/2018	<0.16	<0.15	<0.15	<0.23	0.66J	0.44J	1.1
S30B	5–15	9/12/2014	12	23	2.8	0.28J	5.7	<0.22	43.78
		3/6/2015	18	53	6.3	0.62J	12	<0.22	89.92
		3/4/2016	15	38	5.2	0.62J	24	<0.22	82.82
		9/14/2016	11	46	6.4	0.63J	26	<0.88	90.03
		9/19/2017	8.8	67	8.9	0.66J	77	<2.2	162.36
		3/2/2018	9.8	41	7.1	0.51J	37	<0.22	95.41
		9/12/2014	86J	280J	17J	11J	68J	<0.22	462
S33C	11–21	3/6/2015	550	2400	130	73	280	<2.2	3433
		3/4/2016	62	350	28	14	110	<0.22	564
		9/13/2016	24	130	11	4.8	38	<0.22	207.8
		9/19/2017	20	200	15	6	59	<0.22	300
		3/2/2018	130	730	62	30	100	<0.22	1052
S35B	5–15	9/12/2014	10,000	48,000	6000	830	9900	<2.2	74,730
		3/6/2015	11,000	54,000	6700	930	10,000	<22	82,630
		1/13/2016	19,000	45,000	4600	780	9300	--	78,680
		3/4/2016	21,000J	46,000	3900	660	9900	<44	81,460
		9/13/2016	37,000	48,000	4100	660	11,000	190J	100,950
		9/19/2017	95,000	68,000	5900	830	18,000	<220	187,730
		3/2/2018	16000	17000	1800	290	4600	<22	39690
S67B	10–19.83	9/12/2014	0.2J	12J	3.3J	0.24J	180J	72J	267.74
		3/6/2015	<0.16	12	3	<0.23	220	87	322
		3/4/2016	<0.16	12	3.3	0.23J	230	80	325.53
		9/19/2017	<0.16	10	3.4	<0.23	320	74	407.4
		3/2/2018	<0.16	8.2	3.3	<0.23	150	71	232.5
S67C	20–29.83	9/12/2014	0.64J	62J	12J	0.69J	210J	120J	405.33
		3/6/2015	<0.16	73	14	0.75J	65	25	177.75
		3/4/2016	<0.16	20	4.7	0.3J	190	79	294
		9/19/2017	<0.16	0.2J	2.5	<0.23	42	30	74.7
		3/2/2018	<0.16	0.29J	7.5	<0.23	29	1.9	38.69

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
S67D	30–39.83	9/12/2014	0.27J	7.5	2.6	<0.23	7.7	2.1	20.17
		3/6/2015	<0.16	5.9	2	<0.23	8.4	2	18.3
		3/4/2016	<0.16	6.9	2.6	<0.23	14	1.9	25.4
		9/19/2017	<0.16	0.93J	1.5	<0.23	8.6	2.1	13.13
		3/2/2018	<0.16	1.6	2	<0.23	8.8	3.1	15.5
S68B	10–20	9/17/2014	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	2.1	2.1
		9/15/2015	<0.16	<0.15	<0.15	<0.23	<0.1	0.36J	0.36
		3/7/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/14/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2017	<0.16	<0.15	<0.15	<0.23	0.22J	<0.22	0.22
		9/13/2017	<0.16	0.23J	<0.15	<0.23	0.62J	<0.22	0.85
		3/2/2018	<0.16	0.36J	<0.15	<0.23	0.52J	<0.22	0.88
S68C	18–28	9/17/2014	<0.16	18	0.37J	<0.23	6.6	5.8	30.77
		3/11/2015	<0.16	11	0.32J	<0.23	7.5	6.9	25.72
		9/15/2015	<0.16	11	0.22J	<0.23	6.8	7.2J	25.22
		3/7/2016	<0.16	11	0.23J	<0.23	9.8	6	27.03
		9/14/2016	<0.16	14	0.23J	<0.23	9.7	5.1	29.03
		3/3/2017	<0.16	13	0.18J	<0.23	9.5	2.8	25.48
		9/13/2017	<0.16	18	0.23J	<0.23	16	2.6	36.83
		3/2/2018	<0.16	15	0.34J	<0.23	13	3.4	31.74
S68D	30–40	9/17/2014	<0.16	54	0.81J	<0.23	27	1.9	83.71
		3/11/2015	<0.16	52	0.94J	<0.23	32	3.3	88.24
		9/15/2015	<0.16	47	0.54J	<0.23	16	2.1	65.64
		3/7/2016	<0.16	42	0.51J	<0.23	20	1.9	64.41
		9/14/2016	<0.16	50	0.85J	<0.23	31	1.9	83.75
		3/3/2017	<0.16	31	0.47J	<0.23	32	1.3	64.77
S69B	10–20	9/18/2014	<0.16	<0.15	<0.15	<0.23	<0.1	1.5	1.5
		3/11/2015	<0.16	0.19J	<0.15	<0.23	<0.1	1.4	1.59
		9/16/2015	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/13/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/5/2018	<0.16	<0.15	<0.15	<0.23	<0.10	0.28J	0.28

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
S69C	20–30	9/18/2014	<0.16	0.56J	0.16J	<0.23	0.34J	1	2.06
		3/11/2015	<0.16	0.8J	0.25J	<0.23	<0.1	3.3	4.35
		9/16/2015	<0.16	0.6J	0.18J	<0.23	0.18J	6.9	7.86
		3/9/2016	<0.16	0.63J	0.17J	<0.23	0.2J	1.2	2.2
		9/14/2016	<0.16	0.59J	0.18J	<0.23	0.48J	1.7	2.95
		3/3/2017	<0.16	0.64J	0.19J	<0.23	0.29J	1.7	2.82
		9/13/2017	<0.16	0.38J	<0.15	<0.23	<0.1	0.51J	0.89
		3/5/2018	<0.16	0.67J	0.18J	<0.23	0.44J	1.8J	3.09
S69D	30–40	9/18/2014	<0.16	0.45J	<0.15	<0.23	0.44J	0.65J	1.54
		3/11/2015	<0.16	0.5J	<0.15	<0.23	0.35J	1.3	2.15
		9/16/2015	<0.16	0.4J	<0.15	<0.23	0.32J	0.9J	1.62
		3/9/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2016	<0.16	0.41J	<0.15	<0.23	0.39J	2.5	3.3
		3/6/2017	<0.16	0.33J	<0.15	<0.23	0.33J	<0.22	0.66
		9/13/2017	<0.16	0.51J	<0.15	<0.23	0.62J	<0.22	1.13
		3/5/2018	<0.16	0.41J	<0.15	<0.23	0.43J	0.28J	1.12
S70B	10–20	9/13/2014	<0.16	14J	0.55J	<0.23	5.6J	<0.22	20.15
		3/7/2015	<0.16	12	0.54J	<0.23	4.8	<0.22	17.34
		9/16/2015	<0.16	14	0.5J	<0.23	4.4	0.99J	19.89
		3/8/2016	<0.16	12	0.46J	<0.23	4.2	<0.22	16.66
		9/14/2016	<0.16	12	0.49J	<0.23	3.7	0.59J	16.78
		3/6/2017	<0.16	12	0.46J	<0.23	4.1	0.22J	16.78
		9/12/2017	<0.16	13	0.51J	<0.23	4.2	0.55J	18.26
		3/5/2018	<0.16	11	0.36J	<0.23	3	0.43J	14.79
S70C	20–30	9/13/2014	<0.16	12J	3.6J	<0.23	10J	15	40.6
		3/7/2015	<0.16	10	2.8	<0.23	6.9	12	31.7
		9/16/2015	<0.16	10	2.7	<0.23	6.2	17	35.9
		3/9/2016	<0.16	7.3	2	<0.23	5.4	17	31.7
		9/14/2016	<0.16	6.2	1.8	<0.23	5.3	18	31.3
		3/6/2017	<0.16	5.2	1.5	<0.23	5.4	23	35.1
		9/12/2017	<0.16	3.2	0.91J	<0.23	5	<0.22	9.11
		3/5/2018	<0.16	1.9	0.60J	<0.23	4.9	17	24.4
S70D	30–40	9/13/2014	<0.16	20J	7.4J	0.49J	14J	15	56.89
		3/7/2015	<0.16	19	6.6	0.6J	12	16	54.2
		9/16/2015	<0.16	19	6.8	0.44J	12	18	56.24
		3/9/2016	<0.16	17	6	0.46J	13	17	53.46
		9/14/2016	<0.16	18	7.5	0.65J	14	19	59.15
		3/6/2017	<0.16	13	5.1	0.35J	12	20	50.45
		9/12/2017	<0.16	12	4.5	0.28J	10	28	54.78
		3/5/2018	<0.16	11	4.1	0.26J	8.9	18	42.26

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
S71B	10–20	9/17/2014	<0.16	<0.15	<0.15	<0.23	<0.1	1.2	1.2
		3/11/2015	<0.16	<0.15	<0.15	<0.23	<0.1	1.2	1.2
		9/16/2015	<0.16	<0.15	<0.15	<0.23	<0.1	0.82J	0.82
		3/8/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/14/2016	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/3/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		9/12/2017	<0.16	<0.15	<0.15	<0.23	<0.1	<0.22	ND
		3/6/2018	<0.16	<0.15	<0.15	<0.23	<0.10	<0.22	ND
S71C	20–30	9/17/2014	<0.16	5.8	3.5	<0.23	12	13	34.3
		3/11/2015	<0.16	13	8	<0.23	35	21	77
		9/16/2015	<0.16	19	11	<0.23	48	31	109
		3/8/2016	<0.16	15	11	0.26J	60	26	112.26
		9/14/2016	<0.16	21	15	0.34J	51	41	128.34
		3/3/2017	<0.16	7.8	6.3	<0.23	29	27	70.1
		9/12/2017	<0.16	2.9	2.8	<0.23	25	22	52.7
		3/6/2018	<0.16	1.3	1.7	<0.23	15	16	34
S71D	30–40	9/17/2014	<0.16	22	9.4	0.29J	29	18	78.69
		3/11/2015	<0.16	27	12	0.5J	42	30	111.5
		9/16/2015	<0.16	27	12	0.35J	39	23EJ	101.35
		3/8/2016	<0.16	21	10	0.32J	42	17	90.32
		9/12/2016	<0.16	15	7.9	<0.23	42J	16	80.9
		3/3/2017	<0.16	6.7	3.4	<0.23	25	9.6	44.7
		9/12/2017	<0.16	4.1	3.5	<0.23	36	14	57.6
		3/7/2018	<0.16	2.2	1.8	<0.23	22	10	36
S73B	10–20	9/16/2014	<0.16	<0.15	<0.15	<0.23	0.36J	<0.22	0.36
		3/10/2015	<0.16	0.24J	0.16J	<0.23	0.81J	<0.22	1.21
		9/15/2015	<0.16	<0.15	<0.15	<0.23	0.71J	6.7	7.41
		3/9/2016	<0.16	<0.15	<0.15	<0.23	0.37J	<0.22	0.37
		9/8/2016	<0.16	<0.15	<0.15	<0.23	0.27J	<0.22	0.27
		3/1/2017	<0.16	<0.15	<0.15	<0.23	0.42J	<0.22	0.42
		9/14/2017	<0.16	<0.15	<0.15	<0.23	0.26J	2	2.26
		3/2/2018	<0.16	<0.15	<0.15	<0.23	0.59J	<0.22	0.59
S73C	20–30	9/16/2014	<0.16	11	14	<0.23	110	100	235
		3/10/2015	<0.16	11	14	0.27J	130	130	285.27
		9/15/2015	<0.16	7.2	17	<0.23	110	88	222.2
		3/9/2016	<0.16	5.1	12	<0.23	79	75	171.1
		9/8/2016	<0.16	1.4	5.5	<0.23	32	30B	68.9
		3/2/2017	<0.16	0.38J	7.7	<0.23	50	35	93.08
		9/14/2017	<0.16	0.2J	3.3	<0.23	17	16J	36.5
		3/5/2018	<0.16	<0.15	2.1	<0.23	11	5.7	18.8

Table 5. COPCs Concentrations at the Building 100 Area Since September 2014 (µg/L)^{a, b} (continued)

Location	Screen Depth (ft)	Date Sampled	TCE	cDCE	tDCE	1,1-DCE	VC	1,4 Dioxane	TCOPCs ^c
Cleanup Target Level ^d			30	700	1000	70	10	32	
S73D	30–40	9/16/2014	<0.16	<0.15	0.72J	<0.23	5.9	8	14.62
		3/10/2015	<0.16	<0.15	0.43J	<0.23	2.9	8.6J	11.93
		9/11/2015	<0.16	<0.15	0.62J	<0.23	4.4	9.7	14.72
		3/9/2016	<0.16	<0.15	0.85J	<0.23	3.4	11	15.25
		9/8/2016	<0.16	<0.15	0.75J	<0.23	1.1	12B	13.85
		3/2/2017	<0.16	<0.15	<0.15	<0.23	<0.1	0.87J	0.87
		9/14/2017	<0.16	<0.15	<0.15	<0.23	0.14J	0.91J	1.05
		3/2/2018	<0.16	<0.15	0.18J	<0.23	0.43J	1.2J	1.81

Notes:

^a Micrograms per liter.

^b Not all wells were sampled during every sampling event.

^c Some TCOPCs values are rounded.

^d The offsite cleanup target level is a factor of 10 lower than the listed onsite (poor water quality) cleanup target level. Values preceded by "<" are method detection limits.

Abbreviations:

– = not measured

B = analyte present in associated method blank

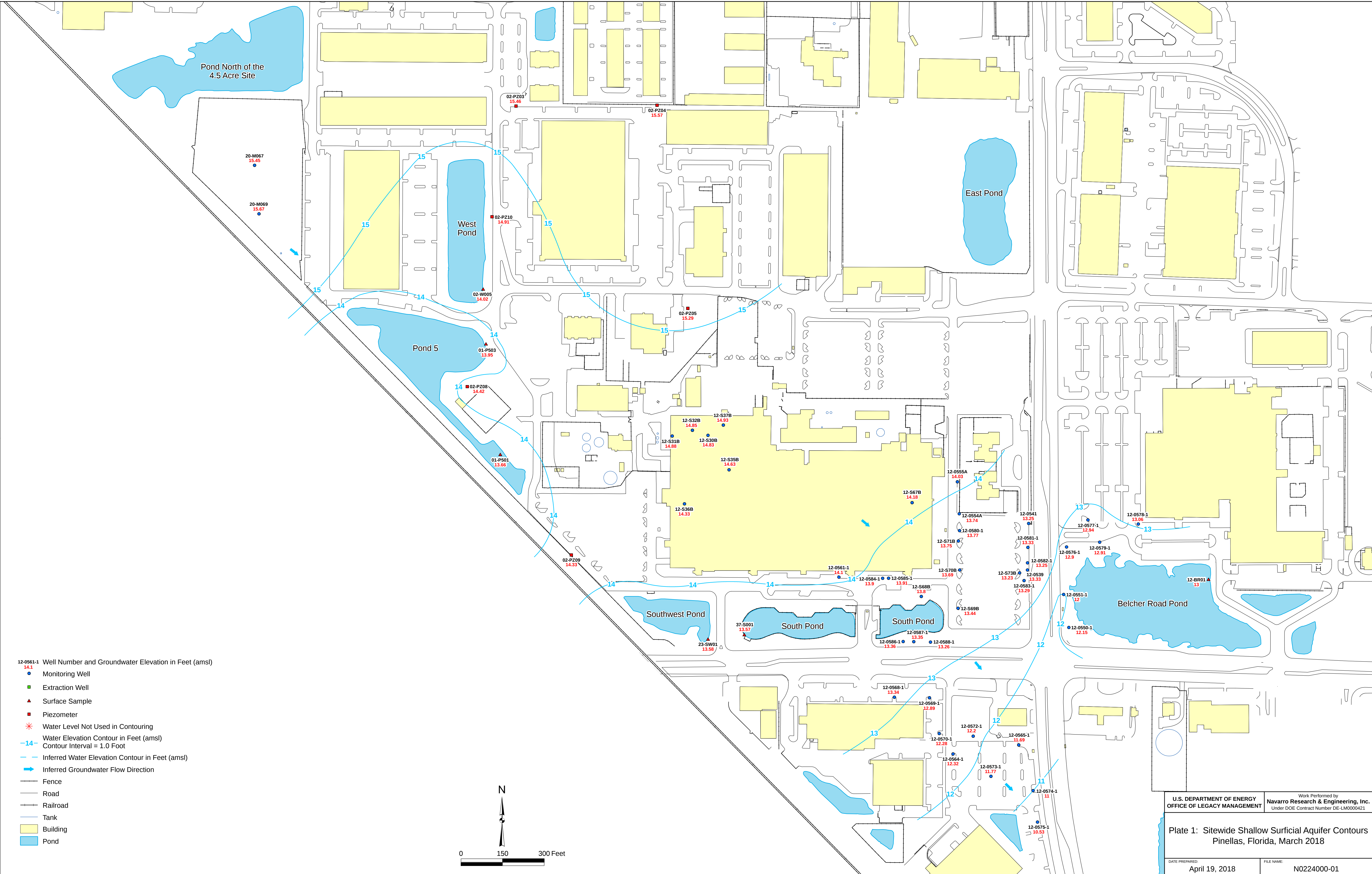
E = analyte exceeded calibration range of the instrument

ft = feet

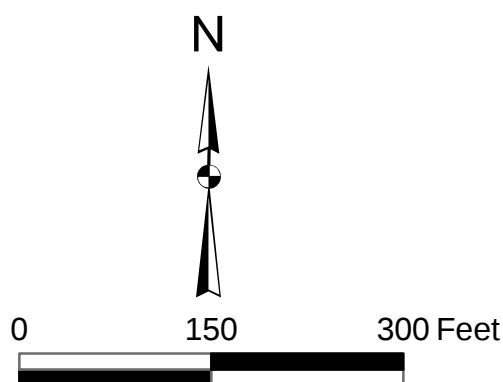
H = missed holding time

J = estimated value

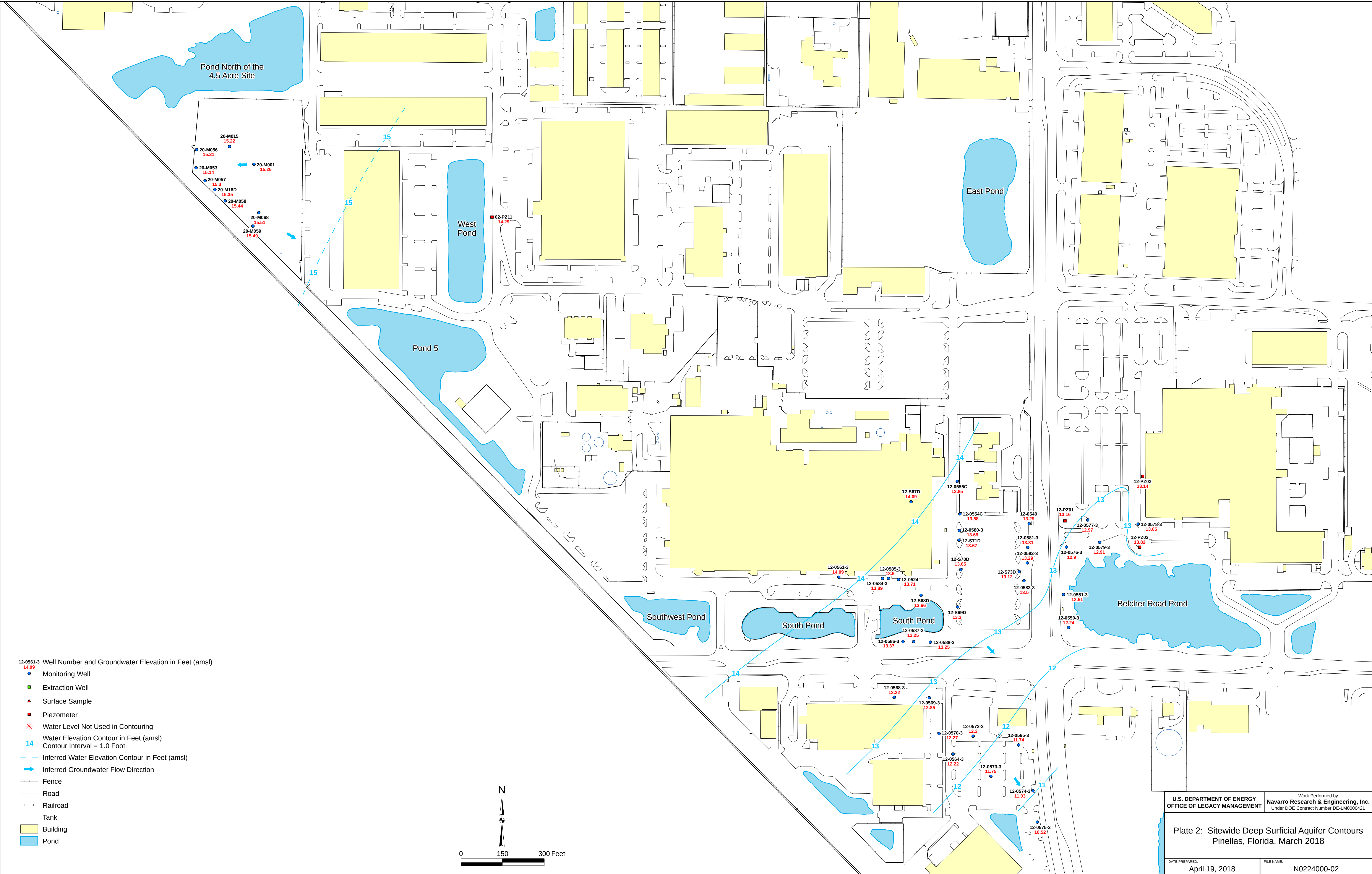
ND = not detected



- 12-0561-1 Well Number and Groundwater Elevation in Feet (amsl)
14.1
- Monitoring Well
- Extraction Well
- Surface Sample
- Piezometer
- Water Level Not Used in Contouring
- Water Elevation Contour in Feet (amsl)
Contour Interval = 1.0 Foot
- Inferred Water Elevation Contour in Feet (amsl)
- Inferred Groundwater Flow Direction
- Fence
- Road
- Railroad
- Tank
- Building
- Pond



U.S. DEPARTMENT OF ENERGY OFFICE OF LEGACY MANAGEMENT		Work Performed by Navarro Research & Engineering, Inc. Under DOE Contract Number DE-LM0000421	
Plate 1: Sitewide Shallow Surficial Aquifer Contours Pinellas, Florida, March 2018			
DATE PREPARED: April 19, 2018		FILE NAME: N0224000-01	



Appendix A

Laboratory Reports

March 2018 Semiannual Monitoring

ANALYTICAL REPORT

Job Number: 280-105992-1

SDG Number: PIN12-01.1801001

Job Description: PINELLAS BLDG 100 MONITORING

For:

Navarro Research and Engineering, Inc
2597 Legacy Way
Grand Junction, CO 81503
Attention: Mr. Steve Donovan



Approved for release.
DiLea R Bindel
Project Manager I
2/12/2018 9:53 AM

DiLea R Bindel, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0173
dilea.bindel@testamericainc.com
02/12/2018

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Pages have been deleted from this laboratory report file to reduce file size. The deleted pages contain raw data and instrument calibrations. If the full laboratory report is needed, contact Scott.Surovchak@lm.doe.gov

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CASE NARRATIVE

Client: Navarro Research and Engineering, Inc.

Project: PINELLAS BLDG 100 MONITORING - PIN12-01.1801001

Report Number: 280-105992-1

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

This report includes reporting limits (RLs) less than TestAmerica Denver's practical quantitation limits. These reporting limits are being used specifically at the client's request to meet the needs of this project. Please note that data are not normally reported to these levels without qualification, since they are inherently less reliable and potentially less defensible than required by the current NELAC standards.

Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 2/1/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

GC/MS VOLATILES - SW846 8260B

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOLATILES - SW846 8260B SIM - 1,4-Dioxane

1,4-Dioxane exceeded the RPD limit for the LCS/LCSD associated with batch 280-404121. The individual LCS/LCSD recoveries were acceptable.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DATA REPORTING QUALIFIERS

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Lab Section	Qualifier	Description
GC/MS VOA	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	*	RPD of the LCS and LCSD exceeds the control limits
	U	Undetected at the Limit of Detection.

SAMPLE SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-105992-1	PIN12-01.1801001.001	Water	01/31/2018 1315	02/01/2018 0900
280-105992-1MS	PIN12-01.1801001.001	Water	01/31/2018 1315	02/01/2018 0900
280-105992-1MSD	PIN12-01.1801001.001	Water	01/31/2018 1315	02/01/2018 0900

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-105992-1	PIN12-01.1801001.001					
Styrene		0.29	J	1.0	ug/L	8260B
Toluene		0.23	J	1.0	ug/L	8260B
1,4-Dioxane		0.39	J *	1.0	ug/L	8260B SIM

METHOD SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Volatile Organic Compounds (GC/MS-SIM)	TAL DEN	SW846 8260B SIM	
Purge and Trap	TAL DEN		SW846 5030B

Lab References:

TAL DEN = TestAmerica Denver

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Method	Analyst	Analyst ID
SW846 8260B	Moan, Matthew R	MRM
SW846 8260B SIM	Moan, Matthew R	MRM

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Client Sample ID: PIN12-01.1801001.001

Lab Sample ID: 280-105992-1
Client Matrix: Water

Date Sampled: 01/31/2018 1315
Date Received: 02/01/2018 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-403825	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H4029.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	02/05/2018 1252			Final Weight/Volume:	20 mL
Prep Date:	02/05/2018 1252				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Client Sample ID: PIN12-01.1801001.001

Lab Sample ID: 280-105992-1
Client Matrix: Water

Date Sampled: 01/31/2018 1315
Date Received: 02/01/2018 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-403825	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H4029.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	02/05/2018 1252			Final Weight/Volume:	20 mL
Prep Date:	02/05/2018 1252				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.29	J	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.23	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
Toluene-d8 (Surr)	104		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Client Sample ID: PIN12-01.1801001.001

Lab Sample ID: 280-105992-1
Client Matrix: Water

Date Sampled: 01/31/2018 1315
Date Received: 02/01/2018 0900

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-404121	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6562.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	02/07/2018 0853			Final Weight/Volume:	20 mL
Prep Date:	02/07/2018 0853				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.39	J *	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	78		70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-105992-1	PIN12-01.1801001.00 1	104	101	104	100
MB 280-403825/18		100	95	104	99
LCS 280-403825/16		101	104	110	101
LCSD 280-403825/17		92	94	101	93
280-105992-1 MS	PIN12-01.1801001.00 1 MS	101	100	110	102
280-105992-1 MSD	PIN12-01.1801001.00 1 MSD	101	98	110	100

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Surrogate Recovery Report

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec
280-105992-1	PIN12-01.1801001.00 1	78
MB 280-404121/5		80
LCS 280-404121/3		87
LCSD 280-404121/4		82
280-105992-1 MS	PIN12-01.1801001.00 1 MS	87
280-105992-1 MSD	PIN12-01.1801001.00 1 MSD	83

Surrogate

Acceptance Limits

DCA = 1,2-Dichloroethane-d4 (Surr)

70-127

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Method Blank - Batch: 280-403825

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 280-403825/18
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/05/2018 1102
Prep Date: 02/05/2018 1102
Leach Date: N/A

Analysis Batch: 280-403825
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_H
Lab File ID: H4024.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Method Blank - Batch: 280-403825

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 280-403825/18
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/05/2018 1102
Prep Date: 02/05/2018 1102
Leach Date: N/A

Analysis Batch: 280-403825
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_H
Lab File ID: H4024.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	70 - 127
Toluene-d8 (Surr)	104	80 - 125
4-Bromofluorobenzene (Surr)	99	78 - 120
Dibromofluoromethane (Surr)	100	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-403825

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 280-403825/16	Analysis Batch: 280-403825	Instrument ID: VMS_H
Client Matrix: Water	Prep Batch: N/A	Lab File ID: H4022.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 02/05/2018 1018	Units: ug/L	Final Weight/Volume: 20 mL
Prep Date: 02/05/2018 1018		20 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 280-403825/17	Analysis Batch: 280-403825	Instrument ID: VMS_H
Client Matrix: Water	Prep Batch: N/A	Lab File ID: H4023.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 02/05/2018 1040	Units: ug/L	Final Weight/Volume: 20 mL
Prep Date: 02/05/2018 1040		20 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	87	82	65 - 135	5	20		
Bromodichloromethane	84	79	65 - 135	6	20		
Carbon tetrachloride	81	76	65 - 135	6	21		
Chlorobenzene	101	93	65 - 135	8	20		
Chloroform	81	77	65 - 135	6	20		
1,3-Dichlorobenzene	95	93	65 - 135	2	20		
1,1-Dichloroethane	82	77	65 - 135	7	21		
trans-1,2-Dichloroethene	88	85	65 - 135	4	24		
1,1-Dichloroethene	86	78	65 - 136	9	20		
1,2-Dichloropropane	88	83	64 - 135	5	20		
Ethylbenzene	102	95	65 - 135	7	20		
Methylene Chloride	87	83	54 - 141	5	26		
Tetrachloroethene	102	95	65 - 135	7	20		
Toluene	87	80	65 - 135	8	20		
1,1,1-Trichloroethane	81	77	65 - 135	5	20		
Trichloroethene	86	79	65 - 135	8	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	94	70 - 127
Toluene-d8 (Surr)	110	101	80 - 125
4-Bromofluorobenzene (Surr)	101	93	78 - 120
Dibromofluoromethane (Surr)	101	92	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-403825

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 280-403825/16 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/05/2018 1018
Prep Date: 02/05/2018 1018
Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-403825/17
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/05/2018 1040
Prep Date: 02/05/2018 1040
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	5.00	5.00	4.33	4.10
Bromodichloromethane	5.00	5.00	4.19	3.94
Carbon tetrachloride	5.00	5.00	4.04	3.79
Chlorobenzene	5.00	5.00	5.03	4.63
Chloroform	5.00	5.00	4.06	3.84
1,3-Dichlorobenzene	5.00	5.00	4.77	4.65
1,1-Dichloroethane	5.00	5.00	4.09	3.83
trans-1,2-Dichloroethene	5.00	5.00	4.41	4.23
1,1-Dichloroethene	5.00	5.00	4.31	3.92
1,2-Dichloropropane	5.00	5.00	4.39	4.17
Ethylbenzene	5.00	5.00	5.08	4.75
Methylene Chloride	5.00	5.00	4.34	4.13
Tetrachloroethene	5.00	5.00	5.09	4.76
Toluene	5.00	5.00	4.33	4.01
1,1,1-Trichloroethane	5.00	5.00	4.06	3.85
Trichloroethene	5.00	5.00	4.29	3.95

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-403825

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-105992-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/05/2018 1314
Prep Date: 02/05/2018 1314
Leach Date: N/A

Analysis Batch: 280-403825
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_H
Lab File ID: H4030.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

MSD Lab Sample ID: 280-105992-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/05/2018 1336
Prep Date: 02/05/2018 1336
Leach Date: N/A

Analysis Batch: 280-403825
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_H
Lab File ID: H4031.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	83	88	65 - 135	5	20		
Bromodichloromethane	81	86	65 - 135	6	20		
Carbon tetrachloride	76	80	65 - 135	5	21		
Chlorobenzene	94	99	65 - 135	6	20		
Chloroform	78	84	65 - 135	8	20		
1,3-Dichlorobenzene	94	95	65 - 135	2	20		
1,1-Dichloroethane	79	82	65 - 135	4	21		
trans-1,2-Dichloroethene	87	91	65 - 135	4	24		
1,1-Dichloroethene	83	87	65 - 136	5	20		
1,2-Dichloropropane	84	87	64 - 135	3	20		
Ethylbenzene	98	101	65 - 135	3	20		
Methylene Chloride	92	94	54 - 141	3	26		
Tetrachloroethene	96	99	65 - 135	3	20		
Toluene	83	88	65 - 135	6	20		
1,1,1-Trichloroethane	77	80	65 - 135	4	20		
Trichloroethene	79	84	65 - 135	6	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	100		98	70 - 127			
Toluene-d8 (Surr)	110		110	80 - 125			
4-Bromofluorobenzene (Surr)	102		100	78 - 120			
Dibromofluoromethane (Surr)	101		101	77 - 120			

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-403825

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-105992-1 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/05/2018 1314
Prep Date: 02/05/2018 1314
Leach Date: N/A

MSD Lab Sample ID: 280-105992-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/05/2018 1336
Prep Date: 02/05/2018 1336
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	0.16	U	5.00	5.00	4.17	4.41
Bromodichloromethane	0.17	U	5.00	5.00	4.04	4.29
Carbon tetrachloride	0.19	U	5.00	5.00	3.78	3.98
Chlorobenzene	0.17	U	5.00	5.00	4.68	4.97
Chloroform	0.16	U	5.00	5.00	3.90	4.21
1,3-Dichlorobenzene	0.13	U	5.00	5.00	4.68	4.77
1,1-Dichloroethane	0.22	U	5.00	5.00	3.93	4.10
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	4.36	4.56
1,1-Dichloroethene	0.23	U	5.00	5.00	4.15	4.35
1,2-Dichloropropane	0.18	U	5.00	5.00	4.21	4.36
Ethylbenzene	0.16	U	5.00	5.00	4.89	5.05
Methylene Chloride	0.32	U	5.00	5.00	4.58	4.71
Tetrachloroethene	0.20	U	5.00	5.00	4.78	4.94
Toluene	0.23	J	5.00	5.00	4.38	4.64
1,1,1-Trichloroethane	0.16	U	5.00	5.00	3.86	4.02
Trichloroethene	0.16	U	5.00	5.00	3.97	4.22

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Method Blank - Batch: 280-404121

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-404121/5	Analysis Batch:	280-404121	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6561.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	02/07/2018 0835	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	02/07/2018 0835				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	80		70 - 127	

Lab Control Sample/

Method: 8260B SIM
Preparation: 5030B

Lab Control Sample Duplicate Recovery Report - Batch: 280-404121

LCS Lab Sample ID:	LCS 280-404121/3	Analysis Batch:	280-404121	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6559.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	02/07/2018 0759	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	02/07/2018 0759				20 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-404121/4	Analysis Batch:	280-404121	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6560.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	02/07/2018 0817	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	02/07/2018 0817				20 mL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,4-Dioxane	73	100	25 - 141	31	20		*
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	87		82		70 - 127		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-404121

Method: 8260B SIM
Preparation: 5030B

LCS Lab Sample ID: LCS 280-404121/3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/07/2018 0759
Prep Date: 02/07/2018 0759
Leach Date: N/A

Units: ug/L

LCSD Lab Sample ID: LCSD 280-404121/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/07/2018 0817
Prep Date: 02/07/2018 0817
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,4-Dioxane	5.00	5.00	3.63	4.98 *

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-404121

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-105992-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/07/2018 1005
Prep Date: 02/07/2018 1005
Leach Date: N/A

Analysis Batch: 280-404121
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_E
Lab File ID: E6566.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
20 mL

MSD Lab Sample ID: 280-105992-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/07/2018 1023
Prep Date: 02/07/2018 1023
Leach Date: N/A

Analysis Batch: 280-404121
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_E
Lab File ID: E6567.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	104	88	25 - 141	16	20		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		87	83			70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-404121**

**Method: 8260B SIM
Preparation: 5030B**

MS Lab Sample ID: 280-105992-1 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/07/2018 1005
Prep Date: 02/07/2018 1005
Leach Date: N/A

MSD Lab Sample ID: 280-105992-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/07/2018 1023
Prep Date: 02/07/2018 1023
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	0.39	J	5.00	5.00	5.57	4.77

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
Sdg Number: PIN12-01.1801001

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-403825					
LCS 280-403825/16	Lab Control Sample	T	Water	8260B	
LCSD 280-403825/17	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-403825/18	Method Blank	T	Water	8260B	
280-105992-1	PIN12-01.1801001.001	T	Water	8260B	
280-105992-1MS	Matrix Spike	T	Water	8260B	
280-105992-1MSD	Matrix Spike Duplicate	T	Water	8260B	
Analysis Batch:280-404121					
LCS 280-404121/3	Lab Control Sample	T	Water	8260B SIM	
LCSD 280-404121/4	Lab Control Sample Duplicate	T	Water	8260B SIM	
MB 280-404121/5	Method Blank	T	Water	8260B SIM	
280-105992-1	PIN12-01.1801001.001	T	Water	8260B SIM	
280-105992-1MS	Matrix Spike	T	Water	8260B SIM	
280-105992-1MSD	Matrix Spike Duplicate	T	Water	8260B SIM	

Report Basis

T = Total

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
SDG: PIN12-01.1801001

Laboratory Chronicle

Lab ID: 280-105992-1

Client ID: PIN12-01.1801001.001

Sample Date/Time: 01/31/2018 13:15 Received Date/Time: 02/01/2018 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-105992-E-1		280-403825		02/05/2018 12:52	1	TAL DEN	MRM
A:8260B	280-105992-E-1		280-403825		02/05/2018 12:52	1	TAL DEN	MRM
P:5030B	280-105992-B-1		280-404121		02/07/2018 08:53	1	TAL DEN	MRM
A:8260B SIM	280-105992-B-1		280-404121		02/07/2018 08:53	1	TAL DEN	MRM

Lab ID: 280-105992-1

Client ID: PIN12-01.1801001.001

Sample Date/Time: 01/31/2018 13:15 Received Date/Time: 02/01/2018 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-105992-D-1 MS		280-403825		02/05/2018 13:14	1	TAL DEN	MRM
A:8260B	280-105992-D-1 MS		280-403825		02/05/2018 13:14	1	TAL DEN	MRM
P:5030B	280-105992-C-1 MS		280-404121		02/07/2018 10:05	1	TAL DEN	MRM
A:8260B SIM	280-105992-C-1 MS		280-404121		02/07/2018 10:05	1	TAL DEN	MRM

Lab ID: 280-105992-1

Client ID: PIN12-01.1801001.001

Sample Date/Time: 01/31/2018 13:15 Received Date/Time: 02/01/2018 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-105992-D-1 MSD		280-403825		02/05/2018 13:36	1	TAL DEN	MRM
A:8260B	280-105992-D-1 MSD		280-403825		02/05/2018 13:36	1	TAL DEN	MRM
P:5030B	280-105992-C-1 MSD		280-404121		02/07/2018 10:23	1	TAL DEN	MRM
A:8260B SIM	280-105992-C-1 MSD		280-404121		02/07/2018 10:23	1	TAL DEN	MRM

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-403825/18		280-403825		02/05/2018 11:02	1	TAL DEN	MRM
A:8260B	MB 280-403825/18		280-403825		02/05/2018 11:02	1	TAL DEN	MRM
P:5030B	MB 280-404121/5		280-404121		02/07/2018 08:35	1	TAL DEN	MRM
A:8260B SIM	MB 280-404121/5		280-404121		02/07/2018 08:35	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
SDG: PIN12-01.1801001

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-403825/16		280-403825		02/05/2018 10:18	1	TAL DEN	MRM
A:8260B	LCS 280-403825/16		280-403825		02/05/2018 10:18	1	TAL DEN	MRM
P:5030B	LCS 280-404121/3		280-404121		02/07/2018 07:59	1	TAL DEN	MRM
A:8260B SIM	LCS 280-404121/3		280-404121		02/07/2018 07:59	1	TAL DEN	MRM

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-403825/17		280-403825		02/05/2018 10:40	1	TAL DEN	MRM
A:8260B	LCSD 280-403825/17		280-403825		02/05/2018 10:40	1	TAL DEN	MRM
P:5030B	LCSD 280-404121/4		280-404121		02/07/2018 08:17	1	TAL DEN	MRM
A:8260B SIM	LCSD 280-404121/4		280-404121		02/07/2018 08:17	1	TAL DEN	MRM

Lab References:

TAL DEN = TestAmerica Denver

Shipping and Receiving Documents

Chain of Custody / Sample Submittal Form

Task Code: PIN12-01.1801001

COC ID: PIN12-01.1801001-COC.1

TURNAROUND TIME: 28

PROJECT INFORMATION

Facility Name: Industrial Drain Leaks Bldg 100
Project Number: 1.101.1.06.509.2.01
Project Name: Pinellas Bldg 100 Monitoring

LABORATORY

Lab Name: TestAmerica Denver
Address: 4955 Yarrow Street
City: Arvada State: CO
Postal Code: 80002
Phone Number: 303-736-0100
PO Number:

SAMPLING / SHIPPING

Shipping Company:
Tracking Number:
Cooler Count:
Date Shipped:

Sampled by: Julian Caballero

Sampler 2:

SAMPLE DETAILS

ANALYSIS REQUESTED

Filtered - F: Field, L: Lab, FL: Field & Lab, N: None

Container
Filtered
Preserv.
ANALYSIS

GLASS 40
ML

GLASS 40 ML

N

N

4 C, HCl

4 C, HCl

ANALYSIS

1,4-Dioxane

VOAS



280-105992 Chain of Custody

X = shared container

Sample ID	Location	Matrix	Date	Time (24hr)	G=Grab C=Comp	QC	# of Cont
PIN12-01.1801001.001	Tubing1	WATER	01-31-18	1315	G		5 not

ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS

RELINQUISHED BY

DATE/TIME

ACCEPTED BY

DATE/TIME

Am P. L.

01-31-18 1730

Erin Edwards
TH-Den

1/31/18 1730
2-1-18 0900

4.1 IZAS to 1 Trans Rev RP 2-48

Login Sample Receipt Checklist

Client: Navarro Research and Engineering, Inc

Job Number: 280-105992-1
SDG Number: PIN12-01.1801001

Login Number: 105992
List Number: 1
Creator: Pottruff, Reed W

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	70 CPM
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 280-106968-1

SDG Number: PIN12-01.1802002

Job Description: PINELLAS BLDG 100 MONITORING

For:

Navarro Research and Engineering, Inc
2597 Legacy Way
Grand Junction, CO 81503
Attention: Mr. Steve Donovan



Approved for release.
DiLea R Bindel
Project Manager I
3/26/2018 2:27 PM

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03/26/2018

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
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Pages have been deleted from this laboratory report file to reduce file size. The deleted pages contain raw data and instrument calibrations. If the full laboratory report is needed, contact Scott.Surovchak@lm.doe.gov

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CASE NARRATIVE

Client: Navarro Research and Engineering, Inc.

Project: PINELLAS BLDG 100 MONITORING - PIN12-01.1802002

Report Number: 280-106968-1

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

This report includes reporting limits (RLs) less than TestAmerica Denver's practical quantitation limits. These reporting limits are being used specifically at the client's request to meet the needs of this project. Please note that data are not normally reported to these levels without qualification, since they are inherently less reliable and potentially less defensible than required by the current NELAC standards.

Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 3/3/2018 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8° C.

GC/MS VOLATILES - SW846 8260B

Due to high concentrations of target analytes, some samples had to be analyzed at a dilution. The reporting limits have been elevated accordingly. To provide the lowest possible detection limits, multiple runs are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOLATILES - SW846 8260B SIM - 1,4-Dioxane

Elevated reporting limits (RL) are provided for the following sample due to insufficient sample provided for analysis: PIN12-01.1802002.102 (2200), PIN12-01.1802002.102 (2200[MS]) and PIN12-01.1802002.102 (2200[MSD]). The sample only had four vials for screening, 8260B, 8260B_SIM + MS/MSD and the first 8260B_SIM analysis was unsuccessful. The RL is 10ug/L instead of 1ug/L.

1,4-Dioxane exceeded the MS/MSD RPD limit for sample PIN12-01.1802002-036 (0574-2) in batch 280-407500. The associated parent sample results have been flagged "N".

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DATA REPORTING QUALIFIERS

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Lab Section	Qualifier	Description
GC/MS VOA	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	*	MS/MSD RPD exceeded the control limit
	U	Undetected at the Limit of Detection.

SAMPLE SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-106968-1	PIN12-01.1802002.101	Water	02/28/2018 1645	03/03/2018 0830
280-106968-1MS	PIN12-01.1802002.101	Water	02/28/2018 1645	03/03/2018 0830
280-106968-1MSD	PIN12-01.1802002.101	Water	02/28/2018 1645	03/03/2018 0830
280-106968-2	PIN12-01.1802002.102	Water	03/01/2018 1330	03/03/2018 0830
280-106968-2MS	PIN12-01.1802002.102	Water	03/01/2018 1330	03/03/2018 0830
280-106968-2MSD	PIN12-01.1802002.102	Water	03/01/2018 1330	03/03/2018 0830
280-106968-3	PIN12-01.1802002.105	Water	02/28/2018 1550	03/03/2018 0830
280-106968-4	PIN12-01.1802002.112	Water	02/28/2018 0800	03/03/2018 0830
280-106968-5	PIN12-01.1802002-018	Water	03/01/2018 0830	03/03/2018 0830
280-106968-6	PIN12-01.1802002-019	Water	03/01/2018 0900	03/03/2018 0830
280-106968-7	PIN12-01.1802002-020	Water	03/01/2018 0930	03/03/2018 0830
280-106968-8	PIN12-01.1802002-030	Water	02/28/2018 1630	03/03/2018 0830
280-106968-9	PIN12-01.1802002-031	Water	02/28/2018 1700	03/03/2018 0830
280-106968-10	PIN12-01.1802002-032	Water	03/01/2018 1015	03/03/2018 0830
280-106968-11	PIN12-01.1802002-033	Water	03/01/2018 1040	03/03/2018 0830
280-106968-12	PIN12-01.1802002-034	Water	03/01/2018 1105	03/03/2018 0830
280-106968-13	PIN12-01.1802002-035	Water	03/01/2018 1310	03/03/2018 0830
280-106968-14	PIN12-01.1802002-036	Water	03/01/2018 1335	03/03/2018 0830
280-106968-15	PIN12-01.1802002-037	Water	03/01/2018 1415	03/03/2018 0830
280-106968-16	PIN12-01.1802002-038	Water	02/28/2018 1610	03/03/2018 0830
280-106968-17	PIN12-01.1802002-039	Water	02/28/2018 1640	03/03/2018 0830

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-106968-1	PIN12-01.1802002.101					
Acetone		11		10	ug/L	8260B
1,1-Dichloroethane		0.23	J	1.0	ug/L	8260B
Toluene		0.85	J	1.0	ug/L	8260B
Vinyl chloride		0.50	J	1.0	ug/L	8260B
1,4-Dioxane		1.5		1.0	ug/L	8260B SIM
280-106968-2	PIN12-01.1802002.102					
Acetone		500		100	ug/L	8260B
2-Butanone (MEK)		170		5.0	ug/L	8260B
cis-1,2-Dichloroethene		1.0		1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.52	J	1.0	ug/L	8260B
2-Hexanone		1.8	J	5.0	ug/L	8260B
Methylene Chloride		0.58	J	1.0	ug/L	8260B
4-Methyl-2-pentanone		1.5	J	5.0	ug/L	8260B
Vinyl chloride		49		1.0	ug/L	8260B
1,4-Dioxane		3.1	J	10	ug/L	8260B SIM
280-106968-3	PIN12-01.1802002.105					
Acetone		14		10	ug/L	8260B
Chloroform		0.30	J	1.0	ug/L	8260B
Methylene Chloride		3.1		1.0	ug/L	8260B
280-106968-4	PIN12-01.1802002.112					
Acetone		13		10	ug/L	8260B
Chloroform		0.32	J	1.0	ug/L	8260B
Methylene Chloride		3.4		1.0	ug/L	8260B
280-106968-5	PIN12-01.1802002-018					
Acetone		6.3	J	10	ug/L	8260B
cis-1,2-Dichloroethene		0.20	J	1.0	ug/L	8260B
Vinyl chloride		0.18	J	1.0	ug/L	8260B
280-106968-6	PIN12-01.1802002-019					
Acetone		7.6	J	10	ug/L	8260B
cis-1,2-Dichloroethene		0.58	J	1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.16	J	1.0	ug/L	8260B
Vinyl chloride		0.33	J	1.0	ug/L	8260B
1,4-Dioxane		0.28	J	1.0	ug/L	8260B SIM

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-106968-7	PIN12-01.1802002-020					
Acetone		10		10	ug/L	8260B
Vinyl chloride		0.10	J	1.0	ug/L	8260B
280-106968-8	PIN12-01.1802002-030					
Acetone		13		10	ug/L	8260B
280-106968-9	PIN12-01.1802002-031					
Acetone		9.0	J	10	ug/L	8260B
Toluene		0.70	J	1.0	ug/L	8260B
Vinyl chloride		0.41	J	1.0	ug/L	8260B
1,4-Dioxane		1.5		1.0	ug/L	8260B SIM
280-106968-10	PIN12-01.1802002-032					
Acetone		8.7	J	10	ug/L	8260B
280-106968-11	PIN12-01.1802002-033					
Acetone		10		10	ug/L	8260B
Vinyl chloride		0.71	J	1.0	ug/L	8260B
1,4-Dioxane		0.74	J	1.0	ug/L	8260B SIM
280-106968-12	PIN12-01.1802002-034					
Acetone		9.5	J	10	ug/L	8260B
1,4-Dioxane		0.62	J	1.0	ug/L	8260B SIM
280-106968-13	PIN12-01.1802002-035					
Acetone		12		10	ug/L	8260B
1,1-Dichloroethane		0.25	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		86		4.0	ug/L	8260B
trans-1,2-Dichloroethene		0.95	J	1.0	ug/L	8260B
1,1-Dichloroethene		3.4		1.0	ug/L	8260B
Vinyl chloride		46		1.0	ug/L	8260B
1,4-Dioxane		2.1		1.0	ug/L	8260B SIM

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-106968-14	PIN12-01.1802002-036					
Acetone		560		40	ug/L	8260B
2-Butanone (MEK)		180		5.0	ug/L	8260B
cis-1,2-Dichloroethene		0.91	J	1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.50	J	1.0	ug/L	8260B
2-Hexanone		1.8	J	5.0	ug/L	8260B
Methylene Chloride		0.66	J	1.0	ug/L	8260B
4-Methyl-2-pentanone		1.5	J	5.0	ug/L	8260B
Vinyl chloride		46		1.0	ug/L	8260B
1,4-Dioxane		2.5		1.0	ug/L	8260B SIM
280-106968-15	PIN12-01.1802002-037					
Acetone		18		10	ug/L	8260B
2-Butanone (MEK)		4.6	J	5.0	ug/L	8260B
cis-1,2-Dichloroethene		0.22	J	1.0	ug/L	8260B
Vinyl chloride		6.6		1.0	ug/L	8260B
1,4-Dioxane		0.60	J	1.0	ug/L	8260B SIM
280-106968-16	PIN12-01.1802002-038					
Acetone		9.2	J	10	ug/L	8260B
Vinyl chloride		0.53	J	1.0	ug/L	8260B
1,4-Dioxane		1.2		1.0	ug/L	8260B SIM
280-106968-17	PIN12-01.1802002-039					
Acetone		13		10	ug/L	8260B
cis-1,2-Dichloroethene		0.25	J	1.0	ug/L	8260B
Vinyl chloride		2.7		1.0	ug/L	8260B
1,4-Dioxane		0.95	J	1.0	ug/L	8260B SIM

METHOD SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Volatile Organic Compounds (GC/MS-SIM)	TAL DEN	SW846 8260B SIM	
Purge and Trap	TAL DEN		SW846 5030B

Lab References:

TAL DEN = TestAmerica Denver

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Method	Analyst	Analyst ID
SW846 8260B	Wickham, Tom A	TAW
SW846 8260B SIM	Moan, Matthew R	MRM

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.101

Lab Sample ID: 280-106968-1
Client Matrix: Water

Date Sampled: 02/28/2018 1645
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9614.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 0955			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 0955				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	11		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.23	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.101

Lab Sample ID: 280-106968-1
Client Matrix: Water

Date Sampled: 02/28/2018 1645
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9614.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 0955			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 0955				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.85	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.50	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 127
Toluene-d8 (Surr)	105		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002**Client Sample ID: PIN12-01.1802002.102**Lab Sample ID: 280-106968-2
Client Matrix: WaterDate Sampled: 03/01/2018 1330
Date Received: 03/03/2018 0830**8260B Volatile Organic Compounds (GC/MS)**

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9617.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1056			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1056				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	170		2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	1.0		0.15	1.0
trans-1,2-Dichloroethene	0.52	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.8	J	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.58	J	0.32	1.0
4-Methyl-2-pentanone	1.5	J	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.102

Lab Sample ID: 280-106968-2
Client Matrix: Water

Date Sampled: 03/01/2018 1330
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9617.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1056			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1056				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	49		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	88		78 - 120
Dibromofluoromethane (Surr)	96		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.102

Lab Sample ID: 280-106968-2
Client Matrix: Water

Date Sampled: 03/01/2018 1330
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9618.D
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1117	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1117				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	500		19	100

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	112		80 - 125
4-Bromofluorobenzene (Surr)	104		78 - 120
Dibromofluoromethane (Surr)	112		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.105

Lab Sample ID: 280-106968-3
Client Matrix: Water

Date Sampled: 02/28/2018 1550
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9612.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 0914			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 0914				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	14		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.30	J	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	3.1		0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.105

Lab Sample ID: 280-106968-3
Client Matrix: Water

Date Sampled: 02/28/2018 1550
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9612.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 0914			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 0914				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	81		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	89		78 - 120
Dibromofluoromethane (Surr)	90		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.112

Lab Sample ID: 280-106968-4
Client Matrix: Water

Date Sampled: 02/28/2018 0800
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9613.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 0934			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 0934				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	13		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.32	J	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	3.4		0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.112

Lab Sample ID: 280-106968-4
Client Matrix: Water

Date Sampled: 02/28/2018 0800
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9613.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 0934			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 0934				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 127
Toluene-d8 (Surr)	103		80 - 125
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	98		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-018

Lab Sample ID: 280-106968-5
Client Matrix: Water

Date Sampled: 03/01/2018 0830
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9619.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1137			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1137				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	6.3	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.20	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-018

Lab Sample ID: 280-106968-5
Client Matrix: Water

Date Sampled: 03/01/2018 0830
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9619.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1137			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1137				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.18	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	90		78 - 120
Dibromofluoromethane (Surr)	96		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-019

Lab Sample ID: 280-106968-6
Client Matrix: Water

Date Sampled: 03/01/2018 0900
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9620.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1158			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1158				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.6	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.58	J	0.15	1.0
trans-1,2-Dichloroethene	0.16	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-019

Lab Sample ID: 280-106968-6
Client Matrix: Water

Date Sampled: 03/01/2018 0900
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9620.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1158			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1158				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.33	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	104		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	107		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-020

Lab Sample ID: 280-106968-7
Client Matrix: Water

Date Sampled: 03/01/2018 0930
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9621.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1218			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1218				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	10		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-020

Lab Sample ID: 280-106968-7
Client Matrix: Water

Date Sampled: 03/01/2018 0930
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9621.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1218			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1218				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 127
Toluene-d8 (Surr)	102		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-030

Lab Sample ID: 280-106968-8
Client Matrix: Water

Date Sampled: 02/28/2018 1630
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9622.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1239			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1239				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	13		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-030

Lab Sample ID: 280-106968-8
Client Matrix: Water

Date Sampled: 02/28/2018 1630
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9622.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1239			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1239				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
Toluene-d8 (Surr)	100		80 - 125
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-031

Lab Sample ID: 280-106968-9
Client Matrix: Water

Date Sampled: 02/28/2018 1700
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9623.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1259			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1259				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	9.0	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-031

Lab Sample ID: 280-106968-9
Client Matrix: Water

Date Sampled: 02/28/2018 1700
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9623.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1259			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1259				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.70	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.41	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 127
Toluene-d8 (Surr)	91		80 - 125
4-Bromofluorobenzene (Surr)	88		78 - 120
Dibromofluoromethane (Surr)	94		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-032

Lab Sample ID: 280-106968-10
Client Matrix: Water

Date Sampled: 03/01/2018 1015
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9624.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1320			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1320				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	8.7	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-032

Lab Sample ID: 280-106968-10
Client Matrix: Water

Date Sampled: 03/01/2018 1015
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9624.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1320			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1320				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	88		78 - 120
Dibromofluoromethane (Surr)	95		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-033

Lab Sample ID: 280-106968-11
Client Matrix: Water

Date Sampled: 03/01/2018 1040
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9625.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1340			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1340				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	10		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-033

Lab Sample ID: 280-106968-11
Client Matrix: Water

Date Sampled: 03/01/2018 1040
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9625.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1340			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1340				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.71	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-034

Lab Sample ID: 280-106968-12
Client Matrix: Water

Date Sampled: 03/01/2018 1105
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9626.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1401			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1401				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	9.5	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-034

Lab Sample ID: 280-106968-12
Client Matrix: Water

Date Sampled: 03/01/2018 1105
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9626.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1401			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1401				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	102		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002**Client Sample ID: PIN12-01.1802002-035**Lab Sample ID: 280-106968-13
Client Matrix: WaterDate Sampled: 03/01/2018 1310
Date Received: 03/03/2018 0830**8260B Volatile Organic Compounds (GC/MS)**

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9627.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1421			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1421				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	12		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.25	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
trans-1,2-Dichloroethene	0.95	J	0.15	1.0
1,1-Dichloroethene	3.4		0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-035

Lab Sample ID: 280-106968-13
Client Matrix: Water

Date Sampled: 03/01/2018 1310
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9627.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1421			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1421				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	46		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
Toluene-d8 (Surr)	108		80 - 125
4-Bromofluorobenzene (Surr)	102		78 - 120
Dibromofluoromethane (Surr)	112		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-035

Lab Sample ID: 280-106968-13
Client Matrix: Water

Date Sampled: 03/01/2018 1310
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9628.D
Dilution:	4.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1442	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1442				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
cis-1,2-Dichloroethene	86		0.60	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 127
Toluene-d8 (Surr)	103		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-036

Lab Sample ID: 280-106968-14
Client Matrix: Water

Date Sampled: 03/01/2018 1335
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9629.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1502			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1502				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	180		2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.91	J	0.15	1.0
trans-1,2-Dichloroethene	0.50	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.8	J	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.66	J	0.32	1.0
4-Methyl-2-pentanone	1.5	J	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-036

Lab Sample ID: 280-106968-14
Client Matrix: Water

Date Sampled: 03/01/2018 1335
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9629.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1502			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1502				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	46		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	87		78 - 120
Dibromofluoromethane (Surr)	95		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-036

Lab Sample ID: 280-106968-14
Client Matrix: Water

Date Sampled: 03/01/2018 1335
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9630.D
Dilution:	4.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1523			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1523				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	560		7.6	40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	107		80 - 125
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-037

Lab Sample ID: 280-106968-15
Client Matrix: Water

Date Sampled: 03/01/2018 1415
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9631.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1543			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1543				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	18		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	4.6	J	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.22	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-037

Lab Sample ID: 280-106968-15
Client Matrix: Water

Date Sampled: 03/01/2018 1415
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9631.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1543			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1543				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	6.6		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Toluene-d8 (Surr)	106		80 - 125
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	107		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-038

Lab Sample ID: 280-106968-16
Client Matrix: Water

Date Sampled: 02/28/2018 1610
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9632.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1604			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1604				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	9.2	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-038

Lab Sample ID: 280-106968-16
Client Matrix: Water

Date Sampled: 02/28/2018 1610
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9632.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1604			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1604				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.53	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 127
Toluene-d8 (Surr)	106		80 - 125
4-Bromofluorobenzene (Surr)	102		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-039

Lab Sample ID: 280-106968-17
Client Matrix: Water

Date Sampled: 02/28/2018 1640
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9633.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1624			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1624				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	13		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.25	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-039

Lab Sample ID: 280-106968-17
Client Matrix: Water

Date Sampled: 02/28/2018 1640
Date Received: 03/03/2018 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407185	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9633.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/08/2018 1624			Final Weight/Volume:	20 mL
Prep Date:	03/08/2018 1624				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	2.7		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Toluene-d8 (Surr)	105		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.101

Lab Sample ID: 280-106968-1
Client Matrix: Water

Date Sampled: 02/28/2018 1645
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-406887	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6817.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/06/2018 1437			Final Weight/Volume:	20 mL
Prep Date:	03/06/2018 1437				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.5		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	89		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.102

Lab Sample ID: 280-106968-2
Client Matrix: Water

Date Sampled: 03/01/2018 1330
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-406887	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6823.D
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/06/2018 1625			Final Weight/Volume:	20 mL
Prep Date:	03/06/2018 1625				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.1	J	2.2	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	87		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-018

Lab Sample ID: 280-106968-5
Client Matrix: Water

Date Sampled: 03/01/2018 0830
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407497	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6883.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/11/2018 1833			Final Weight/Volume:	20 mL
Prep Date:	03/11/2018 1833				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	95		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-019

Lab Sample ID: 280-106968-6
Client Matrix: Water

Date Sampled: 03/01/2018 0900
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407497	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6884.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/11/2018 1851			Final Weight/Volume:	20 mL
Prep Date:	03/11/2018 1851				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.28	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	100		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-020

Lab Sample ID: 280-106968-7
Client Matrix: Water

Date Sampled: 03/01/2018 0930
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407497	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6885.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/11/2018 1909			Final Weight/Volume:	20 mL
Prep Date:	03/11/2018 1909				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	107		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-030

Lab Sample ID: 280-106968-8
Client Matrix: Water

Date Sampled: 02/28/2018 1630
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-406887	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6818.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/06/2018 1455			Final Weight/Volume:	20 mL
Prep Date:	03/06/2018 1455				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-031

Lab Sample ID: 280-106968-9
Client Matrix: Water

Date Sampled: 02/28/2018 1700
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-406887	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6819.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/06/2018 1513			Final Weight/Volume:	20 mL
Prep Date:	03/06/2018 1513				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.5		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	96		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-032

Lab Sample ID: 280-106968-10
Client Matrix: Water

Date Sampled: 03/01/2018 1015
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407497	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6886.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/11/2018 1927			Final Weight/Volume:	20 mL
Prep Date:	03/11/2018 1927				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-033

Lab Sample ID: 280-106968-11
Client Matrix: Water

Date Sampled: 03/01/2018 1040
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407497	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6887.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/11/2018 1945			Final Weight/Volume:	20 mL
Prep Date:	03/11/2018 1945				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.74	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	95		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-033

Lab Sample ID: 280-106968-11
Client Matrix: Water

Date Sampled: 03/01/2018 1040
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407500	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6906.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1034			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1034				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-034

Lab Sample ID: 280-106968-12
Client Matrix: Water

Date Sampled: 03/01/2018 1105
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407500	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6897.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 0752			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 0752				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.62	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	87		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-035

Lab Sample ID: 280-106968-13
Client Matrix: Water

Date Sampled: 03/01/2018 1310
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407500	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6898.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 0810			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 0810				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	2.1		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	92		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-036

Lab Sample ID: 280-106968-14
Client Matrix: Water

Date Sampled: 03/01/2018 1335
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407500	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6899.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 0828			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 0828				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	2.5		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	94		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-037

Lab Sample ID: 280-106968-15
Client Matrix: Water

Date Sampled: 03/01/2018 1415
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407500	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6900.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 0846			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 0846				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.60	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	89		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-038

Lab Sample ID: 280-106968-16
Client Matrix: Water

Date Sampled: 02/28/2018 1610
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-406887	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6820.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/06/2018 1531			Final Weight/Volume:	20 mL
Prep Date:	03/06/2018 1531				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.2		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	92		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-039

Lab Sample ID: 280-106968-17
Client Matrix: Water

Date Sampled: 02/28/2018 1640
Date Received: 03/03/2018 0830

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-406887	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6821.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/06/2018 1549			Final Weight/Volume:	20 mL
Prep Date:	03/06/2018 1549				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.95	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	89		70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-106968-1	PIN12-01.1802002.10 1	102	94	105	100
280-106968-2	PIN12-01.1802002.10 2	96	86	95	88
280-106968-2 DL	PIN12-01.1802002.10 2 DL	112	98	112	104
280-106968-3	PIN12-01.1802002.10 5	90	81	96	89
280-106968-4	PIN12-01.1802002.11 2	98	88	103	95
280-106968-5	PIN12-01.1802002-01 8	96	89	95	90
280-106968-6	PIN12-01.1802002-01 9	107	98	104	100
280-106968-7	PIN12-01.1802002-02 0	105	95	102	97
280-106968-8	PIN12-01.1802002-03 0	101	93	100	96
280-106968-9	PIN12-01.1802002-03 1	94	88	91	88
280-106968-10	PIN12-01.1802002-03 2	95	89	95	88
280-106968-11	PIN12-01.1802002-03 3	100	96	98	92
280-106968-12	PIN12-01.1802002-03 4	103	96	102	97
280-106968-13	PIN12-01.1802002-03 5	112	104	108	102
280-106968-13 DL	PIN12-01.1802002-03 5 DL	105	97	103	97
280-106968-14	PIN12-01.1802002-03 6	95	89	96	87
280-106968-14	PIN12-01.1802002-03 6	106	98	107	99
280-106968-15	PIN12-01.1802002-03 7	107	102	106	101

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-106968-16	PIN12-01.1802002-03 8	106	100	106	102
280-106968-17	PIN12-01.1802002-03 9	105	102	105	100
MB 280-407185/6		104	93	105	99
LCS 280-407185/4		95	84	96	93
280-106968-1 MS	PIN12-01.1802002.10 1 MS	101	92	101	98
280-106968-1 MSD	PIN12-01.1802002.10 1 MSD	107	96	103	102

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec
280-106968-1	PIN12-01.1802002.10 1	89
280-106968-2	PIN12-01.1802002.10 2	87
280-106968-5	PIN12-01.1802002-01 8	95
280-106968-6	PIN12-01.1802002-01 9	100
280-106968-7	PIN12-01.1802002-02 0	107
280-106968-8	PIN12-01.1802002-03 0	86
280-106968-9	PIN12-01.1802002-03 1	96
280-106968-10	PIN12-01.1802002-03 2	102
280-106968-11	PIN12-01.1802002-03 3	95
280-106968-11	PIN12-01.1802002-03 3	95
280-106968-12	PIN12-01.1802002-03 4	87
280-106968-13	PIN12-01.1802002-03 5	92
280-106968-14	PIN12-01.1802002-03 6	94
280-106968-15	PIN12-01.1802002-03 7	89
280-106968-16	PIN12-01.1802002-03 8	92
280-106968-17	PIN12-01.1802002-03 9	89
MB 280-406887/5		98
MB 280-407497/5		86
MB 280-407500/5		96
LCS 280-406887/3		102

Surrogate

DCA = 1,2-Dichloroethane-d4 (Surr)

Acceptance Limits

70-127

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec
LCS 280-407497/3		84
LCS 280-407500/3		95
280-106968-2 MS	PIN12-01.1802002.10 2 MS	91
280-106968-14 MS	PIN12-01.1802002-03 6 MS	94
280-106980-M-4 MS		93
280-106968-2 MSD	PIN12-01.1802002.10 2 MSD	85
280-106968-14 MSD	PIN12-01.1802002-03 6 MSD	105
280-106980-M-4 MSD		89

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407185

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 280-407185/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/08/2018 0833
Prep Date: 03/08/2018 0833
Leach Date: N/A

Analysis Batch: 280-407185
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_MS1
Lab File ID: MS1_9610.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407185

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 280-407185/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/08/2018 0833
Prep Date: 03/08/2018 0833
Leach Date: N/A

Analysis Batch: 280-407185
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_MS1
Lab File ID: MS1_9610.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	70 - 127
Toluene-d8 (Surr)	105	80 - 125
4-Bromofluorobenzene (Surr)	99	78 - 120
Dibromofluoromethane (Surr)	104	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Lab Control Sample - Batch: 280-407185

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 280-407185/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/08/2018 0812
Prep Date: 03/08/2018 0812
Leach Date: N/A

Analysis Batch: 280-407185
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_MS1
Lab File ID: MS1_9609.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	5.00	4.94	99	65 - 135	
Bromodichloromethane	5.00	4.82	96	65 - 135	
Carbon tetrachloride	5.00	4.55	91	65 - 135	
Chlorobenzene	5.00	4.45	89	65 - 135	
Chloroform	5.00	4.66	93	65 - 135	
1,3-Dichlorobenzene	5.00	4.32	86	65 - 135	
1,1-Dichloroethane	5.00	4.97	99	65 - 135	
trans-1,2-Dichloroethene	5.00	4.68	94	65 - 135	
1,1-Dichloroethene	5.00	4.45	89	65 - 136	
1,2-Dichloropropane	5.00	5.01	100	64 - 135	
Ethylbenzene	5.00	4.55	91	65 - 135	
Methylene Chloride	5.00	4.35	87	54 - 141	
Tetrachloroethene	5.00	4.30	86	65 - 135	
Toluene	5.00	4.91	98	65 - 135	
1,1,1-Trichloroethane	5.00	4.61	92	65 - 135	
Trichloroethene	5.00	4.58	92	65 - 135	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	84		70 - 127		
Toluene-d8 (Surr)	96		80 - 125		
4-Bromofluorobenzene (Surr)	93		78 - 120		
Dibromofluoromethane (Surr)	95		77 - 120		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407185

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-106968-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/08/2018 1015
Prep Date: 03/08/2018 1015
Leach Date: N/A

Analysis Batch: 280-407185
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_MS1
Lab File ID: MS1_9615.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

MSD Lab Sample ID: 280-106968-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/08/2018 1036
Prep Date: 03/08/2018 1036
Leach Date: N/A

Analysis Batch: 280-407185
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_MS1
Lab File ID: MS1_9616.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	109	105	65 - 135	4	20		
Bromodichloromethane	104	109	65 - 135	5	20		
Carbon tetrachloride	107	105	65 - 135	2	21		
Chlorobenzene	96	94	65 - 135	2	20		
Chloroform	101	99	65 - 135	2	20		
1,3-Dichlorobenzene	94	90	65 - 135	4	20		
1,1-Dichloroethane	109	105	65 - 135	4	21		
trans-1,2-Dichloroethene	106	102	65 - 135	3	24		
1,1-Dichloroethene	103	97	65 - 136	6	20		
1,2-Dichloropropane	107	106	64 - 135	1	20		
Ethylbenzene	101	98	65 - 135	3	20		
Methylene Chloride	99	98	54 - 141	1	26		
Tetrachloroethene	99	94	65 - 135	5	20		
Toluene	107	102	65 - 135	4	20		
1,1,1-Trichloroethane	107	104	65 - 135	3	20		
Trichloroethene	103	99	65 - 135	4	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	92		96		70 - 127		
Toluene-d8 (Surr)	101		103		80 - 125		
4-Bromofluorobenzene (Surr)	98		102		78 - 120		
Dibromofluoromethane (Surr)	101		107		77 - 120		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407185

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-106968-1 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/08/2018 1015
Prep Date: 03/08/2018 1015
Leach Date: N/A

MSD Lab Sample ID: 280-106968-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/08/2018 1036
Prep Date: 03/08/2018 1036
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	0.16	U	5.00	5.00	5.43	5.24
Bromodichloromethane	0.17	U	5.00	5.00	5.18	5.45
Carbon tetrachloride	0.19	U	5.00	5.00	5.33	5.24
Chlorobenzene	0.17	U	5.00	5.00	4.79	4.72
Chloroform	0.16	U	5.00	5.00	5.04	4.95
1,3-Dichlorobenzene	0.13	U	5.00	5.00	4.70	4.51
1,1-Dichloroethane	0.23	J	5.00	5.00	5.70	5.50
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	5.29	5.11
1,1-Dichloroethene	0.23	U	5.00	5.00	5.16	4.87
1,2-Dichloropropane	0.18	U	5.00	5.00	5.37	5.32
Ethylbenzene	0.16	U	5.00	5.00	5.05	4.92
Methylene Chloride	0.32	U	5.00	5.00	4.94	4.88
Tetrachloroethene	0.20	U	5.00	5.00	4.96	4.70
Toluene	0.85	J	5.00	5.00	6.21	5.97
1,1,1-Trichloroethane	0.16	U	5.00	5.00	5.36	5.18
Trichloroethene	0.16	U	5.00	5.00	5.16	4.97

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-406887

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-406887/5	Analysis Batch:	280-406887	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6795.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/06/2018 0757	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/06/2018 0757				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	98		70 - 127	

Lab Control Sample - Batch: 280-406887

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 280-406887/3	Analysis Batch:	280-406887	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6794.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/06/2018 0739	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/06/2018 0739				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,4-Dioxane	5.00	4.76	95	25 - 141	
Surrogate	% Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	102			70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-406887

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-106968-2	Analysis Batch: 280-406887	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E6824.D
Dilution: 10	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/06/2018 1643		Final Weight/Volume: 20 mL
Prep Date: 03/06/2018 1643		
Leach Date: N/A		

MSD Lab Sample ID: 280-106968-2	Analysis Batch: 280-406887	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E6825.D
Dilution: 10	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/06/2018 1700		Final Weight/Volume: 20 mL
Prep Date: 03/06/2018 1700		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	83	98	25 - 141	16	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	91		85	70 - 127			

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-406887

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-106968-2	Units: ug/L	MSD Lab Sample ID: 280-106968-2
Client Matrix: Water		Client Matrix: Water
Dilution: 10		Dilution: 10
Analysis Date: 03/06/2018 1643		Analysis Date: 03/06/2018 1700
Prep Date: 03/06/2018 1643		Prep Date: 03/06/2018 1700
Leach Date: N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	3.1 J	50.0	50.0	44.4	52.0

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407497

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-407497/5	Analysis Batch:	280-407497	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6870.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/11/2018 1438	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/11/2018 1438				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	86		70 - 127	

Lab Control Sample - Batch: 280-407497

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 280-407497/3	Analysis Batch:	280-407497	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6869.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/11/2018 1420	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/11/2018 1420				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,4-Dioxane	5.00	4.03	81	25 - 141	
Surrogate	% Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	84			70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407497

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-106980-M-4 MS	Analysis Batch: 280-407497	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E6875.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/11/2018 1608		Final Weight/Volume: 20 mL
Prep Date: 03/11/2018 1608		
Leach Date: N/A		

MSD Lab Sample ID: 280-106980-M-4 MSD	Analysis Batch: 280-407497	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E6876.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/11/2018 1627		Final Weight/Volume: 20 mL
Prep Date: 03/11/2018 1627		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	77	71	25 - 141	6	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	93		89	70 - 127			

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407497

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-106980-M-4 MS	Units: ug/L	MSD Lab Sample ID: 280-106980-M-4 MSD
Client Matrix: Water		Client Matrix: Water
Dilution: 1.0		Dilution: 1.0
Analysis Date: 03/11/2018 1608		Analysis Date: 03/11/2018 1627
Prep Date: 03/11/2018 1608		Prep Date: 03/11/2018 1627
Leach Date: N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	1.7	5.00	5.00	5.58	5.26

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407500

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-407500/5	Analysis Batch:	280-407500	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6896.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 0734	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 0734				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	96		70 - 127	

Lab Control Sample - Batch: 280-407500

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 280-407500/3	Analysis Batch:	280-407500	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6895.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 0716	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 0716				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,4-Dioxane	5.00	6.64	133	25 - 141	
Surrogate		% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		95		70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407500

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-106968-14
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1052
Prep Date: 03/12/2018 1052
Leach Date: N/A

Analysis Batch: 280-407500
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_E
Lab File ID: E6907.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
20 mL

MSD Lab Sample ID: 280-106968-14
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1110
Prep Date: 03/12/2018 1110
Leach Date: N/A

Analysis Batch: 280-407500
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_E
Lab File ID: E6908.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	70	111	25 - 141	30	20		*
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	94		105	70 - 127			

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407500

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-106968-14
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1052
Prep Date: 03/12/2018 1052
Leach Date: N/A

Units: ug/L

MSD Lab Sample ID: 280-106968-14
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1110
Prep Date: 03/12/2018 1110
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	2.5	5.00	5.00	5.95	8.03 *

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
Sdg Number: PIN12-01.1802002

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-406887					
LCS 280-406887/3	Lab Control Sample	T	Water	8260B SIM	
MB 280-406887/5	Method Blank	T	Water	8260B SIM	
280-106968-1	PIN12-01.1802002.101	T	Water	8260B SIM	
280-106968-2	PIN12-01.1802002.102	T	Water	8260B SIM	
280-106968-2MS	Matrix Spike	T	Water	8260B SIM	
280-106968-2MSD	Matrix Spike Duplicate	T	Water	8260B SIM	
280-106968-8	PIN12-01.1802002-030	T	Water	8260B SIM	
280-106968-9	PIN12-01.1802002-031	T	Water	8260B SIM	
280-106968-16	PIN12-01.1802002-038	T	Water	8260B SIM	
280-106968-17	PIN12-01.1802002-039	T	Water	8260B SIM	
Analysis Batch:280-407185					
LCS 280-407185/4	Lab Control Sample	T	Water	8260B	
MB 280-407185/6	Method Blank	T	Water	8260B	
280-106968-1	PIN12-01.1802002.101	T	Water	8260B	
280-106968-1MS	Matrix Spike	T	Water	8260B	
280-106968-1MSD	Matrix Spike Duplicate	T	Water	8260B	
280-106968-2	PIN12-01.1802002.102	T	Water	8260B	
280-106968-2DL	PIN12-01.1802002.102	T	Water	8260B	
280-106968-3	PIN12-01.1802002.105	T	Water	8260B	
280-106968-4	PIN12-01.1802002.112	T	Water	8260B	
280-106968-5	PIN12-01.1802002-018	T	Water	8260B	
280-106968-6	PIN12-01.1802002-019	T	Water	8260B	
280-106968-7	PIN12-01.1802002-020	T	Water	8260B	
280-106968-8	PIN12-01.1802002-030	T	Water	8260B	
280-106968-9	PIN12-01.1802002-031	T	Water	8260B	
280-106968-10	PIN12-01.1802002-032	T	Water	8260B	
280-106968-11	PIN12-01.1802002-033	T	Water	8260B	
280-106968-12	PIN12-01.1802002-034	T	Water	8260B	
280-106968-13	PIN12-01.1802002-035	T	Water	8260B	
280-106968-13DL	PIN12-01.1802002-035	T	Water	8260B	
280-106968-14	PIN12-01.1802002-036	T	Water	8260B	
280-106968-15	PIN12-01.1802002-037	T	Water	8260B	
280-106968-16	PIN12-01.1802002-038	T	Water	8260B	
280-106968-17	PIN12-01.1802002-039	T	Water	8260B	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1

Sdg Number: PIN12-01.1802002

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-407497					
LCS 280-407497/3	Lab Control Sample	T	Water	8260B SIM	
MB 280-407497/5	Method Blank	T	Water	8260B SIM	
280-106968-5	PIN12-01.1802002-018	T	Water	8260B SIM	
280-106968-6	PIN12-01.1802002-019	T	Water	8260B SIM	
280-106968-7	PIN12-01.1802002-020	T	Water	8260B SIM	
280-106968-10	PIN12-01.1802002-032	T	Water	8260B SIM	
280-106968-11	PIN12-01.1802002-033	T	Water	8260B SIM	
280-106980-M-4 MS	Matrix Spike	T	Water	8260B SIM	
280-106980-M-4 MSD	Matrix Spike Duplicate	T	Water	8260B SIM	
Analysis Batch:280-407500					
LCS 280-407500/3	Lab Control Sample	T	Water	8260B SIM	
MB 280-407500/5	Method Blank	T	Water	8260B SIM	
280-106968-11	PIN12-01.1802002-033	T	Water	8260B SIM	
280-106968-12	PIN12-01.1802002-034	T	Water	8260B SIM	
280-106968-13	PIN12-01.1802002-035	T	Water	8260B SIM	
280-106968-14	PIN12-01.1802002-036	T	Water	8260B SIM	
280-106968-14MS	Matrix Spike	T	Water	8260B SIM	
280-106968-14MSD	Matrix Spike Duplicate	T	Water	8260B SIM	
280-106968-15	PIN12-01.1802002-037	T	Water	8260B SIM	

Report Basis

T = Total

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-106968-1

Client ID: PIN12-01.1802002.101

Sample Date/Time: 02/28/2018 16:45 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-A-1		280-407185		03/08/2018 09:55	1	TAL DEN	TAW
A:8260B	280-106968-A-1		280-407185		03/08/2018 09:55	1	TAL DEN	TAW
P:5030B	280-106968-D-1		280-406887		03/06/2018 14:37	1	TAL DEN	MRM
A:8260B SIM	280-106968-D-1		280-406887		03/06/2018 14:37	1	TAL DEN	MRM

Lab ID: 280-106968-1

Client ID: PIN12-01.1802002.101

Sample Date/Time: 02/28/2018 16:45 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-C-1 MS		280-407185		03/08/2018 10:15	1	TAL DEN	TAW
A:8260B	280-106968-C-1 MS		280-407185		03/08/2018 10:15	1	TAL DEN	TAW

Lab ID: 280-106968-1

Client ID: PIN12-01.1802002.101

Sample Date/Time: 02/28/2018 16:45 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-C-1 MSD		280-407185		03/08/2018 10:36	1	TAL DEN	TAW
A:8260B	280-106968-C-1 MSD		280-407185		03/08/2018 10:36	1	TAL DEN	TAW

Lab ID: 280-106968-2

Client ID: PIN12-01.1802002.102

Sample Date/Time: 03/01/2018 13:30 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-A-2		280-407185		03/08/2018 10:56	1	TAL DEN	TAW
A:8260B	280-106968-A-2		280-407185		03/08/2018 10:56	1	TAL DEN	TAW
P:5030B	280-106968-A-2	DL	280-407185		03/08/2018 11:17	10	TAL DEN	TAW
A:8260B	280-106968-A-2	DL	280-407185		03/08/2018 11:17	10	TAL DEN	TAW
P:5030B	280-106968-C-2		280-406887		03/06/2018 16:25	10	TAL DEN	MRM
A:8260B SIM	280-106968-C-2		280-406887		03/06/2018 16:25	10	TAL DEN	MRM

Lab ID: 280-106968-2

Client ID: PIN12-01.1802002.102

Sample Date/Time: 03/01/2018 13:30 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-C-2 MS		280-406887		03/06/2018 16:43	10	TAL DEN	MRM
A:8260B SIM	280-106968-C-2 MS		280-406887		03/06/2018 16:43	10	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-106968-2

Client ID: PIN12-01.1802002.102

Sample Date/Time: 03/01/2018 13:30 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-C-2 MSD		280-406887		03/06/2018 17:00	10	TAL DEN	MRM
A:8260B SIM	280-106968-C-2 MSD		280-406887		03/06/2018 17:00	10	TAL DEN	MRM

Lab ID: 280-106968-3

Client ID: PIN12-01.1802002.105

Sample Date/Time: 02/28/2018 15:50 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-A-3		280-407185		03/08/2018 09:14	1	TAL DEN	TAW
A:8260B	280-106968-A-3		280-407185		03/08/2018 09:14	1	TAL DEN	TAW

Lab ID: 280-106968-4

Client ID: PIN12-01.1802002.112

Sample Date/Time: 02/28/2018 08:00 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-B-4		280-407185		03/08/2018 09:34	1	TAL DEN	TAW
A:8260B	280-106968-B-4		280-407185		03/08/2018 09:34	1	TAL DEN	TAW

Lab ID: 280-106968-5

Client ID: PIN12-01.1802002-018

Sample Date/Time: 03/01/2018 08:30 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-C-5		280-407185		03/08/2018 11:37	1	TAL DEN	TAW
A:8260B	280-106968-C-5		280-407185		03/08/2018 11:37	1	TAL DEN	TAW
P:5030B	280-106968-B-5		280-407497		03/11/2018 18:33	1	TAL DEN	MRM
A:8260B SIM	280-106968-B-5		280-407497		03/11/2018 18:33	1	TAL DEN	MRM

Lab ID: 280-106968-6

Client ID: PIN12-01.1802002-019

Sample Date/Time: 03/01/2018 09:00 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-B-6		280-407185		03/08/2018 11:58	1	TAL DEN	TAW
A:8260B	280-106968-B-6		280-407185		03/08/2018 11:58	1	TAL DEN	TAW
P:5030B	280-106968-C-6		280-407497		03/11/2018 18:51	1	TAL DEN	MRM
A:8260B SIM	280-106968-C-6		280-407497		03/11/2018 18:51	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-106968-7

Client ID: PIN12-01.1802002-020

Sample Date/Time: 03/01/2018 09:30 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-D-7		280-407185		03/08/2018 12:18	1	TAL DEN	TAW
A:8260B	280-106968-D-7		280-407185		03/08/2018 12:18	1	TAL DEN	TAW
P:5030B	280-106968-A-7		280-407497		03/11/2018 19:09	1	TAL DEN	MRM
A:8260B SIM	280-106968-A-7		280-407497		03/11/2018 19:09	1	TAL DEN	MRM

Lab ID: 280-106968-8

Client ID: PIN12-01.1802002-030

Sample Date/Time: 02/28/2018 16:30 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-C-8		280-407185		03/08/2018 12:39	1	TAL DEN	TAW
A:8260B	280-106968-C-8		280-407185		03/08/2018 12:39	1	TAL DEN	TAW
P:5030B	280-106968-D-8		280-406887		03/06/2018 14:55	1	TAL DEN	MRM
A:8260B SIM	280-106968-D-8		280-406887		03/06/2018 14:55	1	TAL DEN	MRM

Lab ID: 280-106968-9

Client ID: PIN12-01.1802002-031

Sample Date/Time: 02/28/2018 17:00 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-B-9		280-407185		03/08/2018 12:59	1	TAL DEN	TAW
A:8260B	280-106968-B-9		280-407185		03/08/2018 12:59	1	TAL DEN	TAW
P:5030B	280-106968-D-9		280-406887		03/06/2018 15:13	1	TAL DEN	MRM
A:8260B SIM	280-106968-D-9		280-406887		03/06/2018 15:13	1	TAL DEN	MRM

Lab ID: 280-106968-10

Client ID: PIN12-01.1802002-032

Sample Date/Time: 03/01/2018 10:15 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-B-10		280-407185		03/08/2018 13:20	1	TAL DEN	TAW
A:8260B	280-106968-B-10		280-407185		03/08/2018 13:20	1	TAL DEN	TAW
P:5030B	280-106968-D-10		280-407497		03/11/2018 19:27	1	TAL DEN	MRM
A:8260B SIM	280-106968-D-10		280-407497		03/11/2018 19:27	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-106968-11

Client ID: PIN12-01.1802002-033

Sample Date/Time: 03/01/2018 10:40 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-A-11		280-407185		03/08/2018 13:40	1	TAL DEN	TAW
A:8260B	280-106968-A-11		280-407185		03/08/2018 13:40	1	TAL DEN	TAW
P:5030B	280-106968-D-11		280-407497		03/11/2018 19:45	1	TAL DEN	MRM
A:8260B SIM	280-106968-D-11		280-407497		03/11/2018 19:45	1	TAL DEN	MRM
P:5030B	280-106968-C-11		280-407500		03/12/2018 10:34	1	TAL DEN	MRM
A:8260B SIM	280-106968-C-11		280-407500		03/12/2018 10:34	1	TAL DEN	MRM

Lab ID: 280-106968-12

Client ID: PIN12-01.1802002-034

Sample Date/Time: 03/01/2018 11:05 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-D-12		280-407185		03/08/2018 14:01	1	TAL DEN	TAW
A:8260B	280-106968-D-12		280-407185		03/08/2018 14:01	1	TAL DEN	TAW
P:5030B	280-106968-C-12		280-407500		03/12/2018 07:52	1	TAL DEN	MRM
A:8260B SIM	280-106968-C-12		280-407500		03/12/2018 07:52	1	TAL DEN	MRM

Lab ID: 280-106968-13

Client ID: PIN12-01.1802002-035

Sample Date/Time: 03/01/2018 13:10 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-C-13		280-407185		03/08/2018 14:21	1	TAL DEN	TAW
A:8260B	280-106968-C-13		280-407185		03/08/2018 14:21	1	TAL DEN	TAW
P:5030B	280-106968-C-13	DL	280-407185		03/08/2018 14:42	4	TAL DEN	TAW
A:8260B	280-106968-C-13	DL	280-407185		03/08/2018 14:42	4	TAL DEN	TAW
P:5030B	280-106968-A-13		280-407500		03/12/2018 08:10	1	TAL DEN	MRM
A:8260B SIM	280-106968-A-13		280-407500		03/12/2018 08:10	1	TAL DEN	MRM

Lab ID: 280-106968-14

Client ID: PIN12-01.1802002-036

Sample Date/Time: 03/01/2018 13:35 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-A-14		280-407185		03/08/2018 15:02	1	TAL DEN	TAW
A:8260B	280-106968-A-14		280-407185		03/08/2018 15:02	1	TAL DEN	TAW
P:5030B	280-106968-A-14		280-407185		03/08/2018 15:23	4	TAL DEN	TAW
A:8260B	280-106968-A-14		280-407185		03/08/2018 15:23	4	TAL DEN	TAW
P:5030B	280-106968-C-14		280-407500		03/12/2018 08:28	1	TAL DEN	MRM
A:8260B SIM	280-106968-C-14		280-407500		03/12/2018 08:28	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-106968-14 MS

Client ID: PIN12-01.1802002-036

Sample Date/Time: 03/01/2018 13:35 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-D-14 MS		280-407500		03/12/2018 10:52	1	TAL DEN	MRM
A:8260B SIM	280-106968-D-14 MS		280-407500		03/12/2018 10:52	1	TAL DEN	MRM

Lab ID: 280-106968-14 MSD

Client ID: PIN12-01.1802002-036

Sample Date/Time: 03/01/2018 13:35 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-D-14 MSD		280-407500		03/12/2018 11:10	1	TAL DEN	MRM
A:8260B SIM	280-106968-D-14 MSD		280-407500		03/12/2018 11:10	1	TAL DEN	MRM

Lab ID: 280-106968-15

Client ID: PIN12-01.1802002-037

Sample Date/Time: 03/01/2018 14:15 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-A-15		280-407185		03/08/2018 15:43	1	TAL DEN	TAW
A:8260B	280-106968-A-15		280-407185		03/08/2018 15:43	1	TAL DEN	TAW
P:5030B	280-106968-D-15		280-407500		03/12/2018 08:46	1	TAL DEN	MRM
A:8260B SIM	280-106968-D-15		280-407500		03/12/2018 08:46	1	TAL DEN	MRM

Lab ID: 280-106968-16

Client ID: PIN12-01.1802002-038

Sample Date/Time: 02/28/2018 16:10 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-A-16		280-407185		03/08/2018 16:04	1	TAL DEN	TAW
A:8260B	280-106968-A-16		280-407185		03/08/2018 16:04	1	TAL DEN	TAW
P:5030B	280-106968-D-16		280-406887		03/06/2018 15:31	1	TAL DEN	MRM
A:8260B SIM	280-106968-D-16		280-406887		03/06/2018 15:31	1	TAL DEN	MRM

Lab ID: 280-106968-17

Client ID: PIN12-01.1802002-039

Sample Date/Time: 02/28/2018 16:40 Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106968-B-17		280-407185		03/08/2018 16:24	1	TAL DEN	TAW
A:8260B	280-106968-B-17		280-407185		03/08/2018 16:24	1	TAL DEN	TAW
P:5030B	280-106968-D-17		280-406887		03/06/2018 15:49	1	TAL DEN	MRM
A:8260B SIM	280-106968-D-17		280-406887		03/06/2018 15:49	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1

SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-407185/6		280-407185		03/08/2018 08:33	1	TAL DEN	TAW
A:8260B	MB 280-407185/6		280-407185		03/08/2018 08:33	1	TAL DEN	TAW
P:5030B	MB 280-406887/5		280-406887		03/06/2018 07:57	1	TAL DEN	MRM
A:8260B SIM	MB 280-406887/5		280-406887		03/06/2018 07:57	1	TAL DEN	MRM
P:5030B	MB 280-407497/5		280-407497		03/11/2018 14:38	1	TAL DEN	MRM
A:8260B SIM	MB 280-407497/5		280-407497		03/11/2018 14:38	1	TAL DEN	MRM
P:5030B	MB 280-407500/5		280-407500		03/12/2018 07:34	1	TAL DEN	MRM
A:8260B SIM	MB 280-407500/5		280-407500		03/12/2018 07:34	1	TAL DEN	MRM

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-407185/4		280-407185		03/08/2018 08:12	1	TAL DEN	TAW
A:8260B	LCS 280-407185/4		280-407185		03/08/2018 08:12	1	TAL DEN	TAW
P:5030B	LCS 280-406887/3		280-406887		03/06/2018 07:39	1	TAL DEN	MRM
A:8260B SIM	LCS 280-406887/3		280-406887		03/06/2018 07:39	1	TAL DEN	MRM
P:5030B	LCS 280-407497/3		280-407497		03/11/2018 14:20	1	TAL DEN	MRM
A:8260B SIM	LCS 280-407497/3		280-407497		03/11/2018 14:20	1	TAL DEN	MRM
P:5030B	LCS 280-407500/3		280-407500		03/12/2018 07:16	1	TAL DEN	MRM
A:8260B SIM	LCS 280-407500/3		280-407500		03/12/2018 07:16	1	TAL DEN	MRM

Lab ID: MS

Client ID: N/A

Sample Date/Time: 03/01/2018 10:10

Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106980-M-4 MS		280-407497		03/11/2018 16:08	1	TAL DEN	MRM
A:8260B SIM	280-106980-M-4 MS		280-407497		03/11/2018 16:08	1	TAL DEN	MRM

Lab ID: MSD

Client ID: N/A

Sample Date/Time: 03/01/2018 10:10

Received Date/Time: 03/03/2018 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106980-M-4 MSD		280-407497		03/11/2018 16:27	1	TAL DEN	MRM
A:8260B SIM	280-106980-M-4 MSD		280-407497		03/11/2018 16:27	1	TAL DEN	MRM

Lab References:

TAL DEN = TestAmerica Denver

Shipping and Receiving Documents



0.7 IER 5 to 1 Transfer RF 3-3-18



Chain of Custody / Sample Submittal Form

Task Code: PIN12-01.1802002

COC ID: PIN12-01.1802002-COC.2

TURNAROUND TIME: 28 Days

PROJECT INFORMATION

LABORATORY

SAMPLING / SHIPPING

Facility Name: Industrial Drain Leaks Bldg 100

Lab Name: TestAmerica Denver

Shipping Company:

Project Number: I.101.1.06.509.2.01

Address: 4955 Yarrow Street

Tracking Number:

Project Name: Pinellas Bldg 100 Monitoring

City: Arvada

State: CO

Cooler Count:

Postal Code: 80002

Date Shipped: 03/02/2018

Phone Number: 303-736-0100

Sampled by:

Baer, Tigar, Graham,
Caballero

PO Number: LMCP6283

Sampler 2:

SAMPLE DETAILS

ANALYSIS REQUESTED

GLASS 40 ML

GLASS 40 ML

N

N

4 C, HCl

4 C, HCl

1,4-Dioxane

VOAs

Sample ID

Location

Matrix

Date

Time (24hr)

G=Grab
C=Comp

QC

of
Cont

PIN12-01.1802002-037

0574-3

GW

03/01/2018

14:15

G

4

PIN12-01.1802002-038

0575-1

GW

02/28/2018

16:10

G

4

PIN12-01.1802002-039

0575-2

GW

02/28/2018

16:40

G

4

ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS

REMOVED BY

DATE/TIME

ACCEPTED BY

DATE/TIME

J. Griffin
*Resid*3/2/18 0900
3-2-18 1200*Resid* TADEN3-2-18 1325
3-3-18 0830

Login Sample Receipt Checklist

Client: Navarro Research and Engineering, Inc

Job Number: 280-106968-1
SDG Number: PIN12-01.1802002

Login Number: 106968
List Number: 1
Creator: Pottruff, Reed W

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	70 CPM
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 280-107174-1

SDG Number: PIN12-01.1802002

Job Description: PINELLAS BLDG 100 MONITORING

For:

Navarro Research and Engineering, Inc
2597 Legacy Way
Grand Junction, CO 81503
Attention: Mr. Steve Donovan



Approved for release.
DiLea R Bindel
Project Manager I
3/22/2018 3:36 PM

DiLea R Bindel, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0173
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03/22/2018

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Pages have been deleted from this laboratory report file to reduce file size. The deleted pages contain raw data and instrument calibrations. If the full laboratory report is needed, contact Scott.Surovchak@lm.doe.gov

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CASE NARRATIVE

Client: Navarro Research and Engineering, Inc.

Project: PINELLAS BLDG 100 MONITORING - PIN12-01.1802002

Report Number: 280-107174-1

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

This report includes reporting limits (RLs) less than TestAmerica Denver's practical quantitation limits. These reporting limits are being used specifically at the client's request to meet the needs of this project. Please note that data are not normally reported to these levels without qualification, since they are inherently less reliable and potentially less defensible than required by the current NELAC standards.

Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 3/7/2018 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOLATILES - SW846 8260B

Due to high concentrations of target analytes, some samples had to be analyzed at a dilution. The reporting limits have been elevated accordingly. To provide the lowest possible detection limits, multiple runs are reported.

The following volatile sample was analyzed with significant headspace in the sample container(s): PIN12-01.1802002-068 (0585-2). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Naphthalene was detected in method blank MB 280-407514/6 at a level that was below one half the LOQ. The value should be considered an estimate, and has been flagged "J".

Tetrachloroethene failed the recovery criteria low for the MS associated with 280-407514. In addition, Ethylbenzene and Tetrachloroethene exceeded the MS/MSD RPD limit. The associated sample results have been flagged "N".

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOLATILES - SW846 8260B SIM - 1,4-Dioxane

Due to high concentrations of target analytes, some samples had to be analyzed at a dilution. The reporting limits have been elevated accordingly. To provide the lowest possible detection limits, multiple runs are reported.

The following sample was diluted at 100X dilution due to the nature of the sample matrix: PIN12-01.1802002-081 (S35B). A lesser dilution caused Internal Standard failures. Elevated reporting limits (RLs) are provided.

The following samples in batch 280-407802 required dilutions between 4X-20X due to the abundance of non-target analytes: PIN12-01.1802002-065 (0584-2) and PIN12-01.1802002-068 (0585-2). In order to preserve the integrity of the sample instrumentation and decrease the risk of contamination lesser dilutions could not be performed. Elevated reporting limits (RLs) are provided.

The internal standard (ISTD) response of Fluorobenzene for the following MSD sample in batch 280-407744 was outside acceptance criteria at 40% (limit 50-200%): PIN12-01.1802002.104 (2202). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Due to matrix interference, the internal standard response of Fluorobenzene was outside of acceptance limits at 45% (limit 50-200%) for the following sample associated with batch 280-407802: PIN12-01.1802002.100 (2198). The sample was analyzed twice with similar results.

1,4-Dioxane exceeded the MS/MSD RPD limit for sample PIN12-01.1802002-009 (0554A) in batch 280-407943. The associated parent sample results have been flagged "N".

1,4-Dioxane failed the recovery criteria high for the MSD of sample PIN12-01.1802002-059 (0582-2) in batch 280-408141. The associated parent sample results have been flagged "N".

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DATA REPORTING QUALIFIERS

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Section	Qualifier	Description
GC/MS VOA	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	N	MS, MSD: Spike recovery is outside acceptance limits.
	*	MS/MSD RPD exceeded the control limit
	U	Undetected at the Limit of Detection.

SAMPLE SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-107174-1	PIN12-01.1802002.100	Water	03/03/2018 1205	03/07/2018 1015
280-107174-1MS	PIN12-01.1802002.100	Water	03/03/2018 1205	03/07/2018 1015
280-107174-1MSD	PIN12-01.1802002.100	Water	03/03/2018 1205	03/07/2018 1015
280-107174-2	PIN12-01.1802002.103	Water	03/03/2018 1200	03/07/2018 1015
280-107174-2MS	PIN12-01.1802002.103	Water	03/03/2018 1200	03/07/2018 1015
280-107174-2MSD	PIN12-01.1802002.103	Water	03/03/2018 1200	03/07/2018 1015
280-107174-3	PIN12-01.1802002.104	Water	03/02/2018 1200	03/07/2018 1015
280-107174-4	PIN12-01.1802002.106	Water	03/02/2018 0800	03/07/2018 1015
280-107174-5	PIN12-01.1802002.111	Water	03/02/2018 0800	03/07/2018 1015
280-107174-6	PIN12-01.1802002-001	Water	03/03/2018 1310	03/07/2018 1015
280-107174-7	PIN12-01.1802002-002	Water	03/03/2018 1700	03/07/2018 1015
280-107174-8	PIN12-01.1802002-003	Water	03/02/2018 1510	03/07/2018 1015
280-107174-9	PIN12-01.1802002-004	Water	03/02/2018 1540	03/07/2018 1015
280-107174-10	PIN12-01.1802002-009	Water	03/05/2018 1650	03/07/2018 1015
280-107174-11	PIN12-01.1802002-011	Water	03/05/2018 1710	03/07/2018 1015
280-107174-12	PIN12-01.1802002-012	Water	03/05/2018 1515	03/07/2018 1015
280-107174-13	PIN12-01.1802002-013	Water	03/05/2018 1600	03/07/2018 1015
280-107174-14	PIN12-01.1802002-014	Water	03/05/2018 1535	03/07/2018 1015
280-107174-15	PIN12-01.1802002-015	Water	03/03/2018 0830	03/07/2018 1015
280-107174-16	PIN12-01.1802002-016	Water	03/03/2018 0900	03/07/2018 1015
280-107174-17	PIN12-01.1802002-017	Water	03/03/2018 0940	03/07/2018 1015
280-107174-18	PIN12-01.1802002-021	Water	03/03/2018 0805	03/07/2018 1015
280-107174-19	PIN12-01.1802002-022	Water	03/03/2018 0830	03/07/2018 1015
280-107174-20	PIN12-01.1802002-023	Water	03/03/2018 0855	03/07/2018 1015
280-107174-21	PIN12-01.1802002-024	Water	03/03/2018 0935	03/07/2018 1015
280-107174-22	PIN12-01.1802002-025	Water	03/03/2018 1025	03/07/2018 1015
280-107174-23	PIN12-01.1802002-026	Water	03/03/2018 1125	03/07/2018 1015
280-107174-24	PIN12-01.1802002-027	Water	03/02/2018 0930	03/07/2018 1015
280-107174-25	PIN12-01.1802002-028	Water	03/02/2018 1000	03/07/2018 1015
280-107174-26	PIN12-01.1802002-029	Water	03/02/2018 1025	03/07/2018 1015
280-107174-27	PIN12-01.1802002-043	Water	03/05/2018 1415	03/07/2018 1015
280-107174-28	PIN12-01.1802002-044	Water	03/05/2018 1445	03/07/2018 1015
280-107174-29	PIN12-01.1802002-045	Water	03/05/2018 1515	03/07/2018 1015
280-107174-30	PIN12-01.1802002-049	Water	03/05/2018 1555	03/07/2018 1015
280-107174-31	PIN12-01.1802002-050	Water	03/05/2018 1620	03/07/2018 1015
280-107174-32	PIN12-01.1802002-051	Water	03/05/2018 1650	03/07/2018 1015
280-107174-33	PIN12-01.1802002-055	Water	03/05/2018 1045	03/07/2018 1015
280-107174-34	PIN12-01.1802002-056	Water	03/05/2018 1110	03/07/2018 1015
280-107174-35	PIN12-01.1802002-057	Water	03/05/2018 1315	03/07/2018 1015
280-107174-36	PIN12-01.1802002-058	Water	03/05/2018 0910	03/07/2018 1015
280-107174-37	PIN12-01.1802002-059	Water	03/05/2018 0935	03/07/2018 1015
280-107174-38	PIN12-01.1802002-060	Water	03/05/2018 1010	03/07/2018 1015
280-107174-39	PIN12-01.1802002-061	Water	03/02/2018 1205	03/07/2018 1015
280-107174-40	PIN12-01.1802002-062	Water	03/02/2018 1230	03/07/2018 1015
280-107174-41	PIN12-01.1802002-063	Water	03/02/2018 1320	03/07/2018 1015
280-107174-42	PIN12-01.1802002-064	Water	03/03/2018 1035	03/07/2018 1015
280-107174-43	PIN12-01.1802002-065	Water	03/03/2018 1105	03/07/2018 1015
280-107174-44	PIN12-01.1802002-066	Water	03/03/2018 1205	03/07/2018 1015
280-107174-45	PIN12-01.1802002-067	Water	03/03/2018 1220	03/07/2018 1015
280-107174-46	PIN12-01.1802002-068	Water	03/03/2018 1240	03/07/2018 1015
280-107174-47	PIN12-01.1802002-069	Water	03/03/2018 1345	03/07/2018 1015
280-107174-48	PIN12-01.1802002-079	Water	03/02/2018 1100	03/07/2018 1015

SAMPLE SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-107174-49	PIN12-01.1802002-080	Water	03/02/2018 1145	03/07/2018 1015
280-107174-50	PIN12-01.1802002-081	Water	03/02/2018 1230	03/07/2018 1015
280-107174-51	PIN12-01.1802002-082	Water	03/02/2018 0930	03/07/2018 1015
280-107174-52	PIN12-01.1802002-083	Water	03/02/2018 1010	03/07/2018 1015
280-107174-53	PIN12-01.1802002-084	Water	03/02/2018 0855	03/07/2018 1015
280-107174-54	PIN12-01.1802002-085	Water	03/02/2018 1550	03/07/2018 1015
280-107174-55	PIN12-01.1802002-086	Water	03/02/2018 1630	03/07/2018 1015
280-107174-56	PIN12-01.1802002-088	Water	03/05/2018 0830	03/07/2018 1015
280-107174-57	PIN12-01.1802002-089	Water	03/05/2018 0920	03/07/2018 1015
280-107174-58	PIN12-01.1802002-090	Water	03/05/2018 1110	03/07/2018 1015
280-107174-59	PIN12-01.1802002-091	Water	03/05/2018 1315	03/07/2018 1015
280-107174-60	PIN12-01.1802002-092	Water	03/05/2018 1415	03/07/2018 1015
280-107174-61	PIN12-01.1802002-093	Water	03/05/2018 1335	03/07/2018 1015
280-107174-62	PIN12-01.1802002-097	Water	03/02/2018 1655	03/07/2018 1015
280-107174-63	PIN12-01.1802002-098	Water	03/05/2018 0815	03/07/2018 1015
280-107174-64	PIN12-01.1802002-099	Water	03/02/2018 1715	03/07/2018 1015

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107174-1	PIN12-01.1802002.100					
Acetone		6.4	J	20	ug/L	8260B
Benzene		0.79	J	2.0	ug/L	8260B
cis-1,2-Dichloroethene		270		20	ug/L	8260B
trans-1,2-Dichloroethene		1.8	J	2.0	ug/L	8260B
1,1-Dichloroethene		4.8		2.0	ug/L	8260B
Vinyl chloride		160		20	ug/L	8260B
1,4-Dioxane		1.8		1.0	ug/L	8260B SIM
280-107174-2	PIN12-01.1802002.103					
Acetone		23	J	100	ug/L	8260B
cis-1,2-Dichloroethene		1900		100	ug/L	8260B
trans-1,2-Dichloroethene		13		10	ug/L	8260B
1,1-Dichloroethene		55		10	ug/L	8260B
Methylene Chloride		11		10	ug/L	8260B
Vinyl chloride		670		100	ug/L	8260B
1,4-Dioxane		3.5		1.0	ug/L	8260B SIM
280-107174-3	PIN12-01.1802002.104					
Acetone		5.6	J	10	ug/L	8260B
1,1-Dichloroethane		0.65	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		16		1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.21	J	1.0	ug/L	8260B
Methylene Chloride		0.65	J	1.0	ug/L	8260B
Vinyl chloride		12		1.0	ug/L	8260B
1,4-Dioxane		3.1		1.0	ug/L	8260B SIM
280-107174-4	PIN12-01.1802002.106					
Acetone		17		10	ug/L	8260B
Chloroform		0.29	J	1.0	ug/L	8260B
Methylene Chloride		3.1		1.0	ug/L	8260B
280-107174-5	PIN12-01.1802002.111					
Acetone		16		10	ug/L	8260B
Chloroform		0.33	J	1.0	ug/L	8260B
Methylene Chloride		3.6		1.0	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107174-6	PIN12-01.1802002-001					
Acetone		7.8	J	10	ug/L	8260B
Benzene		0.76	J	1.0	ug/L	8260B
1,1-Dichloroethane		0.28	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		260		10	ug/L	8260B
trans-1,2-Dichloroethene		1.7		1.0	ug/L	8260B
1,1-Dichloroethene		5.0		1.0	ug/L	8260B
Methylene Chloride		0.67	J	1.0	ug/L	8260B
Vinyl chloride		150		10	ug/L	8260B
1,4-Dioxane		2.1		1.0	ug/L	8260B SIM
280-107174-7	PIN12-01.1802002-002					
Acetone		8.6	J	10	ug/L	8260B
cis-1,2-Dichloroethene		5.6		1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.17	J	1.0	ug/L	8260B
Methylene Chloride		0.61	J	1.0	ug/L	8260B
Trichloroethene		1.9		1.0	ug/L	8260B
Vinyl chloride		1.9		1.0	ug/L	8260B
1,4-Dioxane		5.1		1.0	ug/L	8260B SIM
280-107174-8	PIN12-01.1802002-003					
Acetone		8.2	J	10	ug/L	8260B
trans-1,2-Dichloroethene		0.20	J	1.0	ug/L	8260B
Methylene Chloride		0.67	J	1.0	ug/L	8260B
Vinyl chloride		1.8		1.0	ug/L	8260B
1,4-Dioxane		1.1		1.0	ug/L	8260B SIM
280-107174-9	PIN12-01.1802002-004					
Acetone		10		10	ug/L	8260B
1,1-Dichloroethane		2.1		1.0	ug/L	8260B
trans-1,2-Dichloroethene		4.1		1.0	ug/L	8260B
Methylene Chloride		0.42	J	1.0	ug/L	8260B
Toluene		1.8		1.0	ug/L	8260B
Vinyl chloride		17		1.0	ug/L	8260B
1,4-Dioxane		45		10	ug/L	8260B SIM
280-107174-10	PIN12-01.1802002-009					
Acetone		7.8	J	10	ug/L	8260B
Methylene Chloride		0.46	J	1.0	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107174-11	PIN12-01.1802002-011					
Acetone		8.3	J	10	ug/L	8260B
Chloroethane		1.1		1.0	ug/L	8260B
1,1-Dichloroethane		58		1.0	ug/L	8260B
cis-1,2-Dichloroethene		1.9		1.0	ug/L	8260B
trans-1,2-Dichloroethene		2.4		1.0	ug/L	8260B
Methylene Chloride		0.45	J	1.0	ug/L	8260B
Vinyl chloride		51		1.0	ug/L	8260B
1,4-Dioxane		120		20	ug/L	8260B SIM
280-107174-12	PIN12-01.1802002-012					
Acetone		12		10	ug/L	8260B
Methylene Chloride		0.58	J	1.0	ug/L	8260B
280-107174-13	PIN12-01.1802002-013					
Acetone		12		10	ug/L	8260B
Methylene Chloride		0.58	J	1.0	ug/L	8260B
280-107174-14	PIN12-01.1802002-014					
Acetone		14		10	ug/L	8260B
1,1-Dichloroethane		0.29	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		1.0		1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.28	J	1.0	ug/L	8260B
Methylene Chloride		0.54	J	1.0	ug/L	8260B
1,4-Dioxane		0.62	J	1.0	ug/L	8260B SIM
280-107174-15	PIN12-01.1802002-015					
Acetone		6.4	J	10	ug/L	8260B
Methylene Chloride		0.61	J	1.0	ug/L	8260B
280-107174-16	PIN12-01.1802002-016					
Acetone		7.7	J	10	ug/L	8260B
280-107174-17	PIN12-01.1802002-017					
Acetone		11		10	ug/L	8260B
1,4-Dioxane		0.46	J	1.0	ug/L	8260B SIM
280-107174-18	PIN12-01.1802002-021					
Acetone		6.1	J	10	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107174-19	PIN12-01.1802002-022					
Acetone		12		10	ug/L	8260B
1,4-Dioxane		0.35	J	1.0	ug/L	8260B SIM
280-107174-20	PIN12-01.1802002-023					
Acetone		6.6	J	10	ug/L	8260B
280-107174-22	PIN12-01.1802002-025					
Acetone		18		10	ug/L	8260B
2-Butanone (MEK)		4.3	J	5.0	ug/L	8260B
cis-1,2-Dichloroethene		0.66	J	1.0	ug/L	8260B
Vinyl chloride		2.1		1.0	ug/L	8260B
1,4-Dioxane		2.8		1.0	ug/L	8260B SIM
280-107174-23	PIN12-01.1802002-026					
Toluene		0.28	J	1.0	ug/L	8260B
Vinyl chloride		1.1		1.0	ug/L	8260B
1,4-Dioxane		0.92	J	1.0	ug/L	8260B SIM
280-107174-24	PIN12-01.1802002-027					
1,4-Dioxane		0.24	J	1.0	ug/L	8260B SIM
280-107174-25	PIN12-01.1802002-028					
Vinyl chloride		1.2		1.0	ug/L	8260B
1,4-Dioxane		1.6		1.0	ug/L	8260B SIM
280-107174-26	PIN12-01.1802002-029					
Vinyl chloride		1.9		1.0	ug/L	8260B
1,4-Dioxane		0.85	J	1.0	ug/L	8260B SIM
280-107174-27	PIN12-01.1802002-043					
1,4-Dioxane		0.30	J	1.0	ug/L	8260B SIM
280-107174-28	PIN12-01.1802002-044					
Acetone		4.6	J	10	ug/L	8260B
1,4-Dioxane		0.24	J	1.0	ug/L	8260B SIM

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107174-29 Acetone	PIN12-01.1802002-045	7.0	J	10	ug/L	8260B
280-107174-30 Acetone	PIN12-01.1802002-049	8.3	J	10	ug/L	8260B
280-107174-31 Acetone	PIN12-01.1802002-050	5.3	J	10	ug/L	8260B
280-107174-32 Acetone	PIN12-01.1802002-051	5.9	J	10	ug/L	8260B
280-107174-33 Acetone Vinyl chloride 1,4-Dioxane	PIN12-01.1802002-055	7.0 0.28 0.37	J J J	10 1.0 1.0	ug/L ug/L ug/L	8260B 8260B 8260B SIM
280-107174-34 Acetone Chloroethane 1,1-Dichloroethane cis-1,2-Dichloroethene trans-1,2-Dichloroethene Toluene Vinyl chloride 1,4-Dioxane	PIN12-01.1802002-056	5.5 1.3 30 6.3 4.5 0.25 76 270	J J	10 1.0 1.0 1.0 1.0 1.0 4.0 20	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B SIM
280-107174-35 Acetone 1,1-Dichloroethane cis-1,2-Dichloroethene Vinyl chloride 1,4-Dioxane	PIN12-01.1802002-057	6.4 2.1 0.74 2.5 3.6	J J	10 1.0 1.0 1.0 1.0	ug/L ug/L ug/L ug/L ug/L	8260B 8260B 8260B 8260B 8260B SIM

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107174-36	PIN12-01.1802002-058					
Acetone		7.8	J	10	ug/L	8260B
cis-1,2-Dichloroethene		0.26	J	1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.15	J	1.0	ug/L	8260B
Vinyl chloride		1.8		1.0	ug/L	8260B
1,4-Dioxane		1.1		1.0	ug/L	8260B SIM
280-107174-37	PIN12-01.1802002-059					
Acetone		5.5	J	10	ug/L	8260B
1,1-Dichloroethane		4.8		1.0	ug/L	8260B
cis-1,2-Dichloroethene		0.41	J	1.0	ug/L	8260B
trans-1,2-Dichloroethene		7.7		1.0	ug/L	8260B
Toluene		0.21	J	1.0	ug/L	8260B
Vinyl chloride		47		1.0	ug/L	8260B
1,4-Dioxane		47		5.0	ug/L	8260B SIM
280-107174-38	PIN12-01.1802002-060					
Acetone		6.2	J	10	ug/L	8260B
1,1-Dichloroethane		1.5		1.0	ug/L	8260B
cis-1,2-Dichloroethene		0.41	J	1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.40	J	1.0	ug/L	8260B
Vinyl chloride		2.5		1.0	ug/L	8260B
1,4-Dioxane		18		1.0	ug/L	8260B SIM
280-107174-39	PIN12-01.1802002-061					
Acetone		11		10	ug/L	8260B
Toluene		0.29	J	1.0	ug/L	8260B
Vinyl chloride		1.8		1.0	ug/L	8260B
1,4-Dioxane		0.34	J	1.0	ug/L	8260B SIM
280-107174-40	PIN12-01.1802002-062					
Acetone		11		10	ug/L	8260B
1,1-Dichloroethane		1.3		1.0	ug/L	8260B
cis-1,2-Dichloroethene		2.7		1.0	ug/L	8260B
trans-1,2-Dichloroethene		1.9		1.0	ug/L	8260B
Vinyl chloride		7.5		1.0	ug/L	8260B
1,4-Dioxane		3.8		1.0	ug/L	8260B SIM
280-107174-41	PIN12-01.1802002-063					
Acetone		7.5	J	10	ug/L	8260B
1,4-Dioxane		0.35	J	1.0	ug/L	8260B SIM

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107174-42	PIN12-01.1802002-064					
Acetone		4.5	J	10	ug/L	8260B
Vinyl chloride		1.5		1.0	ug/L	8260B
1,4-Dioxane		2.1		1.0	ug/L	8260B SIM
280-107174-43	PIN12-01.1802002-065					
cis-1,2-Dichloroethene		2000		50	ug/L	8260B
trans-1,2-Dichloroethene		15		5.0	ug/L	8260B
1,1-Dichloroethene		70		5.0	ug/L	8260B
Vinyl chloride		590		50	ug/L	8260B
1,4-Dioxane		3.3	J	4.0	ug/L	8260B SIM
280-107174-44	PIN12-01.1802002-066					
Acetone		140		10	ug/L	8260B
2-Butanone (MEK)		390		10	ug/L	8260B
Carbon disulfide		0.47	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		0.25	J	1.0	ug/L	8260B
Ethylbenzene		0.17	J	1.0	ug/L	8260B
Methylene Chloride		0.33	J	1.0	ug/L	8260B
4-Methyl-2-pentanone		2.4	J	5.0	ug/L	8260B
1,4-Dioxane		2.6		1.0	ug/L	8260B SIM
280-107174-45	PIN12-01.1802002-067					
Acetone		4.5	J	10	ug/L	8260B
trans-1,2-Dichloroethene		0.26	J	1.0	ug/L	8260B
Vinyl chloride		1.1		1.0	ug/L	8260B
1,4-Dioxane		6.6		1.0	ug/L	8260B SIM
280-107174-46	PIN12-01.1802002-068					
cis-1,2-Dichloroethene		9000		400	ug/L	8260B
trans-1,2-Dichloroethene		73		40	ug/L	8260B
1,1-Dichloroethene		530		40	ug/L	8260B
Trichloroethene		1600		40	ug/L	8260B
Vinyl chloride		2300		400	ug/L	8260B
1,4-Dioxane		9.5	J	20	ug/L	8260B SIM

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107174-47	PIN12-01.1802002-069					
Acetone		15		10	ug/L	8260B
Benzene		0.22	J	1.0	ug/L	8260B
2-Butanone (MEK)		2.9	J	5.0	ug/L	8260B
cis-1,2-Dichloroethene		1.0		1.0	ug/L	8260B
trans-1,2-Dichloroethene		1.1		1.0	ug/L	8260B
Toluene		0.54	J	1.0	ug/L	8260B
Trichloroethene		0.94	J	1.0	ug/L	8260B
Vinyl chloride		0.84	J	1.0	ug/L	8260B
1,4-Dioxane		3.7		1.0	ug/L	8260B SIM
280-107174-48	PIN12-01.1802002-079					
Acetone		5.0	J	10	ug/L	8260B
1,1-Dichloroethane		0.45	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		41		1.0	ug/L	8260B
trans-1,2-Dichloroethene		7.1		1.0	ug/L	8260B
1,1-Dichloroethene		0.51	J	1.0	ug/L	8260B
Methylene Chloride		0.48	J	1.0	ug/L	8260B
Trichloroethene		9.8		1.0	ug/L	8260B
Vinyl chloride		37		1.0	ug/L	8260B
280-107174-49	PIN12-01.1802002-080					
cis-1,2-Dichloroethene		730		40	ug/L	8260B
trans-1,2-Dichloroethene		62		4.0	ug/L	8260B
1,1-Dichloroethene		30		4.0	ug/L	8260B
Methylene Chloride		3.2	J	4.0	ug/L	8260B
Trichloroethene		130		4.0	ug/L	8260B
Vinyl chloride		100		4.0	ug/L	8260B
280-107174-50	PIN12-01.1802002-081					
cis-1,2-Dichloroethene		17000		1000	ug/L	8260B
trans-1,2-Dichloroethene		1800		100	ug/L	8260B
1,1-Dichloroethene		290		100	ug/L	8260B
Methylene Chloride		32	J	100	ug/L	8260B
Trichloroethene		16000		1000	ug/L	8260B
Vinyl chloride		4600		100	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107174-51	PIN12-01.1802002-082					
Acetone		9.9	J	10	ug/L	8260B
1,1-Dichloroethane		19		1.0	ug/L	8260B
cis-1,2-Dichloroethene		8.2		1.0	ug/L	8260B
trans-1,2-Dichloroethene		3.3		1.0	ug/L	8260B
Methylene Chloride		0.42	J	1.0	ug/L	8260B
Vinyl chloride		150		10	ug/L	8260B
1,4-Dioxane		71		10	ug/L	8260B SIM
280-107174-52	PIN12-01.1802002-083					
Acetone		13		10	ug/L	8260B
2-Butanone (MEK)		4.7	J	5.0	ug/L	8260B
1,1-Dichloroethane		0.86	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		0.29	J	1.0	ug/L	8260B
trans-1,2-Dichloroethene		7.5		1.0	ug/L	8260B
Toluene		0.21	J	1.0	ug/L	8260B
Vinyl chloride		29		1.0	ug/L	8260B
1,4-Dioxane		1.9		1.0	ug/L	8260B SIM
280-107174-53	PIN12-01.1802002-084					
Acetone		9.5	J	10	ug/L	8260B
1,1-Dichloroethane		1.4		1.0	ug/L	8260B
cis-1,2-Dichloroethene		1.6		1.0	ug/L	8260B
trans-1,2-Dichloroethene		2.0		1.0	ug/L	8260B
Toluene		0.22	J	1.0	ug/L	8260B
Vinyl chloride		8.8		1.0	ug/L	8260B
1,4-Dioxane		3.1		1.0	ug/L	8260B SIM
280-107174-54	PIN12-01.1802002-085					
Acetone		10		10	ug/L	8260B
cis-1,2-Dichloroethene		0.36	J	1.0	ug/L	8260B
Vinyl chloride		0.52	J	1.0	ug/L	8260B
280-107174-55	PIN12-01.1802002-086					
Acetone		7.4	J	10	ug/L	8260B
1,1-Dichloroethane		0.82	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		15		1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.34	J	1.0	ug/L	8260B
Vinyl chloride		13		1.0	ug/L	8260B
1,4-Dioxane		3.4		1.0	ug/L	8260B SIM

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107174-56	PIN12-01.1802002-088					
Acetone		8.4	J	10	ug/L	8260B
1,4-Dioxane		0.28	J	1.0	ug/L	8260B SIM
280-107174-57	PIN12-01.1802002-089					
Acetone		23		10	ug/L	8260B
cis-1,2-Dichloroethene		0.67	J	1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.18	J	1.0	ug/L	8260B
Vinyl chloride		0.44	J	1.0	ug/L	8260B
1,4-Dioxane		1.8		1.0	ug/L	8260B SIM
280-107174-58	PIN12-01.1802002-090					
Acetone		41		10	ug/L	8260B
cis-1,2-Dichloroethene		0.41	J	1.0	ug/L	8260B
Vinyl chloride		0.43	J	1.0	ug/L	8260B
1,4-Dioxane		0.28	J	1.0	ug/L	8260B SIM
280-107174-59	PIN12-01.1802002-091					
Acetone		10		10	ug/L	8260B
cis-1,2-Dichloroethene		11		1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.36	J	1.0	ug/L	8260B
Vinyl chloride		3.0		1.0	ug/L	8260B
1,4-Dioxane		0.43	J	1.0	ug/L	8260B SIM
280-107174-60	PIN12-01.1802002-092					
Acetone		4.1	J	10	ug/L	8260B
1,1-Dichloroethane		1.3		1.0	ug/L	8260B
cis-1,2-Dichloroethene		1.9		1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.60	J	1.0	ug/L	8260B
Vinyl chloride		4.9		1.0	ug/L	8260B
1,4-Dioxane		17		1.0	ug/L	8260B SIM
280-107174-61	PIN12-01.1802002-093					
Acetone		6.0	J	10	ug/L	8260B
Chloroethane		0.47	J	1.0	ug/L	8260B
1,1-Dichloroethane		4.6		1.0	ug/L	8260B
cis-1,2-Dichloroethene		11		1.0	ug/L	8260B
trans-1,2-Dichloroethene		4.1		1.0	ug/L	8260B
1,1-Dichloroethene		0.26	J	1.0	ug/L	8260B
Vinyl chloride		8.9		1.0	ug/L	8260B
1,4-Dioxane		18		1.0	ug/L	8260B SIM

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107174-62	PIN12-01.1802002-097					
Acetone		7.1	J	10	ug/L	8260B
Vinyl chloride		0.59	J	1.0	ug/L	8260B
280-107174-63	PIN12-01.1802002-098					
Acetone		6.4	J	10	ug/L	8260B
1,1-Dichloroethane		0.87	J	1.0	ug/L	8260B
trans-1,2-Dichloroethene		2.1		1.0	ug/L	8260B
Vinyl chloride		11		1.0	ug/L	8260B
1,4-Dioxane		5.7		1.0	ug/L	8260B SIM
280-107174-64	PIN12-01.1802002-099					
Acetone		6.0	J	10	ug/L	8260B
trans-1,2-Dichloroethene		0.18	J	1.0	ug/L	8260B
Vinyl chloride		0.43	J	1.0	ug/L	8260B
1,4-Dioxane		1.2		1.0	ug/L	8260B SIM

METHOD SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Volatile Organic Compounds (GC/MS-SIM)	TAL DEN	SW846 8260B SIM	
Purge and Trap	TAL DEN		SW846 5030B

Lab References:

TAL DEN = TestAmerica Denver

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method	Analyst	Analyst ID
SW846 8260B	Dobransky, Michael E	MD
SW846 8260B	Seifert, Judy L	JLS
SW846 8260B	Wickham, Tom A	TAW
SW846 8260B SIM	Meier, Greg P	GPM
SW846 8260B SIM	Moan, Matthew R	MRM

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.100

Lab Sample ID: 280-107174-1
Client Matrix: Water

Date Sampled: 03/03/2018 1205
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9758.D
Dilution:	2.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1105			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1105				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	6.4	J	3.8	20
Benzene	0.79	J	0.32	2.0
Bromobenzene	0.34	U	0.34	2.0
Bromochloromethane	0.20	U	0.20	2.0
Bromodichloromethane	0.34	U	0.34	2.0
Bromoform	0.38	U	0.38	2.0
Bromomethane	0.42	U	0.42	2.0
2-Butanone (MEK)	4.0	U	4.0	10
n-Butylbenzene	0.64	U	0.64	2.0
sec-Butylbenzene	0.34	U	0.34	2.0
tert-Butylbenzene	0.32	U	0.32	2.0
Carbon disulfide	0.90	U	0.90	2.0
Carbon tetrachloride	0.38	U	0.38	2.0
Chlorobenzene	0.34	U	0.34	2.0
Dibromochloromethane	0.34	U	0.34	2.0
Chloroethane	0.82	U	0.82	2.0
Chloroform	0.32	U	0.32	2.0
Chloromethane	0.60	U	0.60	2.0
2-Chlorotoluene	0.34	U	0.34	2.0
4-Chlorotoluene	0.42	U	0.42	2.0
1,2-Dibromo-3-Chloropropane	0.94	U	0.94	2.0
Dibromomethane	0.34	U	0.34	2.0
1,2-Dichlorobenzene	0.30	U	0.30	2.0
1,3-Dichlorobenzene	0.26	U	0.26	2.0
1,4-Dichlorobenzene	0.32	U	0.32	2.0
Dichlorodifluoromethane	0.62	U	0.62	2.0
1,1-Dichloroethane	0.44	U	0.44	2.0
1,2-Dichloroethane	0.26	U	0.26	2.0
trans-1,2-Dichloroethene	1.8	J	0.30	2.0
1,1-Dichloroethene	4.8		0.46	2.0
1,2-Dichloropropane	0.36	U	0.36	2.0
1,3-Dichloropropane	0.44	U	0.44	2.0
2,2-Dichloropropane	0.36	U	0.36	2.0
cis-1,3-Dichloropropene	0.32	U	0.32	2.0
trans-1,3-Dichloropropene	0.38	U	0.38	2.0
1,1-Dichloropropene	0.38	U	0.38	2.0
Ethylbenzene	0.32	U	0.32	2.0
Hexachlorobutadiene	0.72	U	0.72	2.0
2-Hexanone	3.4	U	3.4	10
Isopropylbenzene	0.38	U	0.38	2.0
4-Isopropyltoluene	0.40	U	0.40	2.0
Methylene Chloride	0.64	U	0.64	2.0
4-Methyl-2-pentanone	2.0	U	2.0	10
Naphthalene	0.44	U	0.44	2.0
n-Propylbenzene	0.32	U	0.32	2.0
Styrene	0.34	U	0.34	2.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.100

Lab Sample ID: 280-107174-1
Client Matrix: Water

Date Sampled: 03/03/2018 1205
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9758.D
Dilution:	2.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1105			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1105				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.42	U	0.42	2.0
1,1,2,2-Tetrachloroethane	0.42	U	0.42	2.0
Tetrachloroethene	0.40	U	0.40	2.0
Toluene	0.34	U	0.34	2.0
1,2,3-Trichlorobenzene	0.42	U	0.42	2.0
1,2,4-Trichlorobenzene	0.42	U	0.42	2.0
1,1,1-Trichloroethane	0.32	U	0.32	2.0
1,1,2-Trichloroethane	0.54	U	0.54	2.0
Trichloroethene	0.32	U	0.32	2.0
Trichlorofluoromethane	0.58	U	0.58	2.0
1,2,3-Trichloropropane	0.66	U	0.66	2.0
1,2,4-Trimethylbenzene	0.30	U	0.30	2.0
1,3,5-Trimethylbenzene	0.32	U	0.32	2.0
Xylenes, Total	0.38	U	0.38	2.0
1,2-Dibromoethane	0.36	U	0.36	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	96		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.100

Lab Sample ID: 280-107174-1
Client Matrix: Water

Date Sampled: 03/03/2018 1205
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9759.D
Dilution:	20			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1125	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1125				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
cis-1,2-Dichloroethene	270		3.0	20
Vinyl chloride	160		2.0	20

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	108		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.103

Lab Sample ID: 280-107174-2
Client Matrix: Water

Date Sampled: 03/03/2018 1200
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9762.D
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1226			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1226				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	23	J	19	100
Benzene	1.6	U	1.6	10
Bromobenzene	1.7	U	1.7	10
Bromochloromethane	1.0	U	1.0	10
Bromodichloromethane	1.7	U	1.7	10
Bromoform	1.9	U	1.9	10
Bromomethane	2.1	U	2.1	10
2-Butanone (MEK)	20	U	20	50
n-Butylbenzene	3.2	U	3.2	10
sec-Butylbenzene	1.7	U	1.7	10
tert-Butylbenzene	1.6	U	1.6	10
Carbon disulfide	4.5	U	4.5	10
Carbon tetrachloride	1.9	U	1.9	10
Chlorobenzene	1.7	U	1.7	10
Dibromochloromethane	1.7	U	1.7	10
Chloroethane	4.1	U	4.1	10
Chloroform	1.6	U	1.6	10
Chloromethane	3.0	U	3.0	10
2-Chlorotoluene	1.7	U	1.7	10
4-Chlorotoluene	2.1	U	2.1	10
1,2-Dibromo-3-Chloropropane	4.7	U	4.7	10
Dibromomethane	1.7	U	1.7	10
1,2-Dichlorobenzene	1.5	U	1.5	10
1,3-Dichlorobenzene	1.3	U	1.3	10
1,4-Dichlorobenzene	1.6	U	1.6	10
Dichlorodifluoromethane	3.1	U	3.1	10
1,1-Dichloroethane	2.2	U	2.2	10
1,2-Dichloroethane	1.3	U	1.3	10
trans-1,2-Dichloroethene	13		1.5	10
1,1-Dichloroethene	55		2.3	10
1,2-Dichloropropane	1.8	U	1.8	10
1,3-Dichloropropane	2.2	U	2.2	10
2,2-Dichloropropane	1.8	U	1.8	10
cis-1,3-Dichloropropene	1.6	U	1.6	10
trans-1,3-Dichloropropene	1.9	U	1.9	10
1,1-Dichloropropene	1.9	U	1.9	10
Ethylbenzene	1.6	U	1.6	10
Hexachlorobutadiene	3.6	U	3.6	10
2-Hexanone	17	U	17	50
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	2.0	U	2.0	10
Methylene Chloride	11		3.2	10
4-Methyl-2-pentanone	9.8	U	9.8	50
Naphthalene	2.2	U	2.2	10
n-Propylbenzene	1.6	U	1.6	10
Styrene	1.7	U	1.7	10

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.103

Lab Sample ID: 280-107174-2
Client Matrix: Water

Date Sampled: 03/03/2018 1200
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9762.D
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1226			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1226				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	2.1	U	2.1	10
1,1,2,2-Tetrachloroethane	2.1	U	2.1	10
Tetrachloroethene	2.0	U	2.0	10
Toluene	1.7	U	1.7	10
1,2,3-Trichlorobenzene	2.1	U	2.1	10
1,2,4-Trichlorobenzene	2.1	U	2.1	10
1,1,1-Trichloroethane	1.6	U	1.6	10
1,1,2-Trichloroethane	2.7	U	2.7	10
Trichloroethene	1.6	U	1.6	10
Trichlorofluoromethane	2.9	U	2.9	10
1,2,3-Trichloropropane	3.3	U	3.3	10
1,2,4-Trimethylbenzene	1.5	U	1.5	10
1,3,5-Trimethylbenzene	1.6	U	1.6	10
Xylenes, Total	1.9	U	1.9	10
1,2-Dibromoethane	1.8	U	1.8	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
Toluene-d8 (Surr)	109		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.103

Lab Sample ID: 280-107174-2
Client Matrix: Water

Date Sampled: 03/03/2018 1200
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9763.D
Dilution:	100			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1247	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1247				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
cis-1,2-Dichloroethene	1900		15	100
Vinyl chloride	670		10	100

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 127
Toluene-d8 (Surr)	107		80 - 125
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.104

Lab Sample ID: 280-107174-3
Client Matrix: Water

Date Sampled: 03/02/2018 1200
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9764.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1307			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1307				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	5.6	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.65	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	16		0.15	1.0
trans-1,2-Dichloroethene	0.21	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.65	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.104

Lab Sample ID: 280-107174-3
Client Matrix: Water

Date Sampled: 03/02/2018 1200
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9764.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1307			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1307				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	12		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 127
Toluene-d8 (Surr)	101		80 - 125
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.106

Lab Sample ID: 280-107174-4
Client Matrix: Water

Date Sampled: 03/02/2018 0800
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9756.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1024			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1024				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	17		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.29	J	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	3.1		0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.106

Lab Sample ID: 280-107174-4
Client Matrix: Water

Date Sampled: 03/02/2018 0800
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9756.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1024			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1024				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	81		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	89		78 - 120
Dibromofluoromethane (Surr)	94		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.111

Lab Sample ID: 280-107174-5
Client Matrix: Water

Date Sampled: 03/02/2018 0800
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9757.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1044			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1044				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	16		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.33	J	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	3.6		0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.111

Lab Sample ID: 280-107174-5
Client Matrix: Water

Date Sampled: 03/02/2018 0800
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9757.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1044			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1044				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 127
Toluene-d8 (Surr)	103		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	99		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002**Client Sample ID: PIN12-01.1802002-001**Lab Sample ID: 280-107174-6
Client Matrix: WaterDate Sampled: 03/03/2018 1310
Date Received: 03/07/2018 1015**8260B Volatile Organic Compounds (GC/MS)**

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9765.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1327			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1327				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.8	J	1.9	10
Benzene	0.76	J	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.28	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
trans-1,2-Dichloroethene	1.7		0.15	1.0
1,1-Dichloroethene	5.0		0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.67	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-001

Lab Sample ID: 280-107174-6
Client Matrix: Water

Date Sampled: 03/03/2018 1310
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9765.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1327			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1327				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 127
Toluene-d8 (Surr)	104		80 - 125
4-Bromofluorobenzene (Surr)	103		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-001

Lab Sample ID: 280-107174-6
Client Matrix: Water

Date Sampled: 03/03/2018 1310
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9766.D
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1348	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1348				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
cis-1,2-Dichloroethene	260		1.5	10
Vinyl chloride	150		1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 127
Toluene-d8 (Surr)	103		80 - 125
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-002

Lab Sample ID: 280-107174-7
Client Matrix: Water

Date Sampled: 03/03/2018 1700
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9767.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1408			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1408				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	8.6	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	5.6		0.15	1.0
trans-1,2-Dichloroethene	0.17	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.61	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-002

Lab Sample ID: 280-107174-7
Client Matrix: Water

Date Sampled: 03/03/2018 1700
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9767.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1408			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1408				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	1.9		0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	1.9		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 127
Toluene-d8 (Surr)	104		80 - 125
4-Bromofluorobenzene (Surr)	105		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-003

Lab Sample ID: 280-107174-8
Client Matrix: Water

Date Sampled: 03/02/2018 1510
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9768.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1429			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1429				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	8.2	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.20	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.67	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-003

Lab Sample ID: 280-107174-8
Client Matrix: Water

Date Sampled: 03/02/2018 1510
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9768.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1429			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1429				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	1.8		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
Toluene-d8 (Surr)	101		80 - 125
4-Bromofluorobenzene (Surr)	104		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-004

Lab Sample ID: 280-107174-9
Client Matrix: Water

Date Sampled: 03/02/2018 1540
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9769.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1449			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1449				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	10		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	2.1		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	4.1		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.42	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-004

Lab Sample ID: 280-107174-9
Client Matrix: Water

Date Sampled: 03/02/2018 1540
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9769.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1449			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1449				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	1.8		0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	17		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
Toluene-d8 (Surr)	100		80 - 125
4-Bromofluorobenzene (Surr)	102		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-009

Lab Sample ID: 280-107174-10
Client Matrix: Water

Date Sampled: 03/05/2018 1650
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9770.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1509			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1509				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.8	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.46	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-009

Lab Sample ID: 280-107174-10
Client Matrix: Water

Date Sampled: 03/05/2018 1650
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9770.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1509			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1509				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
Toluene-d8 (Surr)	102		80 - 125
4-Bromofluorobenzene (Surr)	102		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-011

Lab Sample ID: 280-107174-11
Client Matrix: Water

Date Sampled: 03/05/2018 1710
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9771.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1530			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1530				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	8.3	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	1.1		0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	58		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	1.9		0.15	1.0
trans-1,2-Dichloroethene	2.4		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.45	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-011

Lab Sample ID: 280-107174-11
Client Matrix: Water

Date Sampled: 03/05/2018 1710
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9771.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1530			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1530				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	51		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	94		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-012

Lab Sample ID: 280-107174-12
Client Matrix: Water

Date Sampled: 03/05/2018 1515
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9773.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1611			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1611				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	12		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.58	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-012

Lab Sample ID: 280-107174-12
Client Matrix: Water

Date Sampled: 03/05/2018 1515
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9773.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1611			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1611				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	111		80 - 125
4-Bromofluorobenzene (Surr)	110		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-013

Lab Sample ID: 280-107174-13
Client Matrix: Water

Date Sampled: 03/05/2018 1600
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9774.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1631			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1631				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	12		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.58	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-013

Lab Sample ID: 280-107174-13
Client Matrix: Water

Date Sampled: 03/05/2018 1600
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9774.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1631			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1631				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	108		80 - 125
4-Bromofluorobenzene (Surr)	108		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-014

Lab Sample ID: 280-107174-14
Client Matrix: Water

Date Sampled: 03/05/2018 1535
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9775.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1651			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1651				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	14		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.29	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	1.0		0.15	1.0
trans-1,2-Dichloroethene	0.28	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.54	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-014

Lab Sample ID: 280-107174-14
Client Matrix: Water

Date Sampled: 03/05/2018 1535
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9775.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1651			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1651				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	106		80 - 125
4-Bromofluorobenzene (Surr)	108		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-015

Lab Sample ID: 280-107174-15
Client Matrix: Water

Date Sampled: 03/03/2018 0830
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9776.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1712			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1712				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	6.4	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.61	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-015

Lab Sample ID: 280-107174-15
Client Matrix: Water

Date Sampled: 03/03/2018 0830
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9776.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1712			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1712				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 127
Toluene-d8 (Surr)	112		80 - 125
4-Bromofluorobenzene (Surr)	111		78 - 120
Dibromofluoromethane (Surr)	107		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-016

Lab Sample ID: 280-107174-16
Client Matrix: Water

Date Sampled: 03/03/2018 0900
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9777.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1732			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1732				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.7	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-016

Lab Sample ID: 280-107174-16
Client Matrix: Water

Date Sampled: 03/03/2018 0900
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9777.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1732			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1732				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	98		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-017

Lab Sample ID: 280-107174-17
Client Matrix: Water

Date Sampled: 03/03/2018 0940
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9778.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1753			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1753				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	11		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-017

Lab Sample ID: 280-107174-17
Client Matrix: Water

Date Sampled: 03/03/2018 0940
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9778.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1753			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1753				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
Toluene-d8 (Surr)	109		80 - 125
4-Bromofluorobenzene (Surr)	109		78 - 120
Dibromofluoromethane (Surr)	109		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-021

Lab Sample ID: 280-107174-18
Client Matrix: Water

Date Sampled: 03/03/2018 0805
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9779.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1813			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1813				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	6.1	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-021

Lab Sample ID: 280-107174-18
Client Matrix: Water

Date Sampled: 03/03/2018 0805
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9779.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1813			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1813				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	111		80 - 125
4-Bromofluorobenzene (Surr)	110		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-022

Lab Sample ID: 280-107174-19
Client Matrix: Water

Date Sampled: 03/03/2018 0830
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9780.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1833			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1833				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	12		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-022

Lab Sample ID: 280-107174-19
Client Matrix: Water

Date Sampled: 03/03/2018 0830
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9780.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1833			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1833				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	106		80 - 125
4-Bromofluorobenzene (Surr)	109		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-023

Lab Sample ID: 280-107174-20
Client Matrix: Water

Date Sampled: 03/03/2018 0855
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9781.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1854			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1854				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	6.6	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-023

Lab Sample ID: 280-107174-20
Client Matrix: Water

Date Sampled: 03/03/2018 0855
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS1_9781.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1854			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1854				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	91		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-024

Lab Sample ID: 280-107174-21
Client Matrix: Water

Date Sampled: 03/03/2018 0935
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1949.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1804			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1804				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-024

Lab Sample ID: 280-107174-21
Client Matrix: Water

Date Sampled: 03/03/2018 0935
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1949.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1804			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1804				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	102		78 - 120
Dibromofluoromethane (Surr)	94		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-025

Lab Sample ID: 280-107174-22
Client Matrix: Water

Date Sampled: 03/03/2018 1025
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1950.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1825			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1825				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	18		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	4.3	J	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.66	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-025

Lab Sample ID: 280-107174-22
Client Matrix: Water

Date Sampled: 03/03/2018 1025
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1950.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1825			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1825				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	2.1		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	93		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-026

Lab Sample ID: 280-107174-23
Client Matrix: Water

Date Sampled: 03/03/2018 1125
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1951.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1845			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1845				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-026

Lab Sample ID: 280-107174-23
Client Matrix: Water

Date Sampled: 03/03/2018 1125
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1951.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1845			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1845				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.28	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	1.1		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 127
Toluene-d8 (Surr)	102		80 - 125
4-Bromofluorobenzene (Surr)	90		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-027

Lab Sample ID: 280-107174-24
Client Matrix: Water

Date Sampled: 03/02/2018 0930
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1952.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1906			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1906				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-027

Lab Sample ID: 280-107174-24
Client Matrix: Water

Date Sampled: 03/02/2018 0930
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1952.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1906			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1906				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 127
Toluene-d8 (Surr)	111		80 - 125
4-Bromofluorobenzene (Surr)	89		78 - 120
Dibromofluoromethane (Surr)	88		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-028

Lab Sample ID: 280-107174-25
Client Matrix: Water

Date Sampled: 03/02/2018 1000
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1953.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1926			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1926				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-028

Lab Sample ID: 280-107174-25
Client Matrix: Water

Date Sampled: 03/02/2018 1000
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1953.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1926			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1926				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	1.2		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	110		80 - 125
4-Bromofluorobenzene (Surr)	86		78 - 120
Dibromofluoromethane (Surr)	92		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-029

Lab Sample ID: 280-107174-26
Client Matrix: Water

Date Sampled: 03/02/2018 1025
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1954.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1947			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1947				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-029

Lab Sample ID: 280-107174-26
Client Matrix: Water

Date Sampled: 03/02/2018 1025
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407514	Instrument ID:	VMS_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q1954.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1947			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1947				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	1.9		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	106		78 - 120
Dibromofluoromethane (Surr)	88		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-043

Lab Sample ID: 280-107174-27
Client Matrix: Water

Date Sampled: 03/05/2018 1415
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7240.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0912			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0912				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-043

Lab Sample ID: 280-107174-27
Client Matrix: Water

Date Sampled: 03/05/2018 1415
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7240.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0912			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0912				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	80		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	81		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-044

Lab Sample ID: 280-107174-28
Client Matrix: Water

Date Sampled: 03/05/2018 1445
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7254.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1404			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1404				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	4.6	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-044

Lab Sample ID: 280-107174-28
Client Matrix: Water

Date Sampled: 03/05/2018 1445
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7254.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1404			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1404				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-045

Lab Sample ID: 280-107174-29
Client Matrix: Water

Date Sampled: 03/05/2018 1515
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7255.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1425			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1425				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.0	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-045

Lab Sample ID: 280-107174-29
Client Matrix: Water

Date Sampled: 03/05/2018 1515
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7255.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1425			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1425				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	92		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-049

Lab Sample ID: 280-107174-30
Client Matrix: Water

Date Sampled: 03/05/2018 1555
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7258.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1528			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1528				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	8.3	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-049

Lab Sample ID: 280-107174-30
Client Matrix: Water

Date Sampled: 03/05/2018 1555
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7258.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1528			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1528				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	105		78 - 120
Dibromofluoromethane (Surr)	97		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-050

Lab Sample ID: 280-107174-31
Client Matrix: Water

Date Sampled: 03/05/2018 1620
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7259.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1549			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1549				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	5.3	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-050

Lab Sample ID: 280-107174-31
Client Matrix: Water

Date Sampled: 03/05/2018 1620
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7259.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1549			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1549				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	93		80 - 125
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-051

Lab Sample ID: 280-107174-32
Client Matrix: Water

Date Sampled: 03/05/2018 1650
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7260.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1610			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1610				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	5.9	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-051

Lab Sample ID: 280-107174-32
Client Matrix: Water

Date Sampled: 03/05/2018 1650
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7260.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1610			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1610				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	92		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	90		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-055

Lab Sample ID: 280-107174-33
Client Matrix: Water

Date Sampled: 03/05/2018 1045
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7261.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1632			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1632				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.0	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-055

Lab Sample ID: 280-107174-33
Client Matrix: Water

Date Sampled: 03/05/2018 1045
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7261.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1632			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1632				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.28	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	93		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	88		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-056

Lab Sample ID: 280-107174-34
Client Matrix: Water

Date Sampled: 03/05/2018 1110
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7241.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0933			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0933				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	5.5	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	1.3		0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	30		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	6.3		0.15	1.0
trans-1,2-Dichloroethene	4.5		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-056

Lab Sample ID: 280-107174-34
Client Matrix: Water

Date Sampled: 03/05/2018 1110
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7241.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0933			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0933				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.25	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	87		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-056

Lab Sample ID: 280-107174-34
Client Matrix: Water

Date Sampled: 03/05/2018 1110
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7265.D
Dilution:	4.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1756	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1756				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Vinyl chloride	76		0.40	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	93		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-057

Lab Sample ID: 280-107174-35
Client Matrix: Water

Date Sampled: 03/05/2018 1315
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7262.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1653			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1653				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	6.4	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	2.1		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.74	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-057

Lab Sample ID: 280-107174-35
Client Matrix: Water

Date Sampled: 03/05/2018 1315
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7262.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1653			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1653				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	2.5		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	93		80 - 125
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-058

Lab Sample ID: 280-107174-36
Client Matrix: Water

Date Sampled: 03/05/2018 0910
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7263.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1714			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1714				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.8	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.26	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-058

Lab Sample ID: 280-107174-36
Client Matrix: Water

Date Sampled: 03/05/2018 0910
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7263.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1714			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1714				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	1.8		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Toluene-d8 (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	91		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-059

Lab Sample ID: 280-107174-37
Client Matrix: Water

Date Sampled: 03/05/2018 0935
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7243.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1014			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1014				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	5.5	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	4.8		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.41	J	0.15	1.0
trans-1,2-Dichloroethene	7.7		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-059

Lab Sample ID: 280-107174-37
Client Matrix: Water

Date Sampled: 03/05/2018 0935
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7243.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1014			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1014				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.21	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	47		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	84		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-060

Lab Sample ID: 280-107174-38
Client Matrix: Water

Date Sampled: 03/05/2018 1010
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7264.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1735			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1735				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	6.2	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	1.5		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.41	J	0.15	1.0
trans-1,2-Dichloroethene	0.40	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-060

Lab Sample ID: 280-107174-38
Client Matrix: Water

Date Sampled: 03/05/2018 1010
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7264.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1735			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1735				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	2.5		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	88		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-061

Lab Sample ID: 280-107174-39
Client Matrix: Water

Date Sampled: 03/02/2018 1205
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7184.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1410			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1410				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	11		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-061

Lab Sample ID: 280-107174-39
Client Matrix: Water

Date Sampled: 03/02/2018 1205
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7184.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1410			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1410				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.29	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	1.8		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-062

Lab Sample ID: 280-107174-40
Client Matrix: Water

Date Sampled: 03/02/2018 1230
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7185.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1431			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1431				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	11		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	1.3		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	2.7		0.15	1.0
trans-1,2-Dichloroethene	1.9		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-062

Lab Sample ID: 280-107174-40
Client Matrix: Water

Date Sampled: 03/02/2018 1230
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7185.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1431			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1431				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	7.5		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-063

Lab Sample ID: 280-107174-41
Client Matrix: Water

Date Sampled: 03/02/2018 1320
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7186.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1453			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1453				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.5	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-063

Lab Sample ID: 280-107174-41
Client Matrix: Water

Date Sampled: 03/02/2018 1320
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7186.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1453			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1453				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	87		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-064

Lab Sample ID: 280-107174-42
Client Matrix: Water

Date Sampled: 03/03/2018 1035
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7247.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1524			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1524				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	4.5	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-064

Lab Sample ID: 280-107174-42
Client Matrix: Water

Date Sampled: 03/03/2018 1035
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7247.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1524			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1524				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	1.5		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002**Client Sample ID: PIN12-01.1802002-065**Lab Sample ID: 280-107174-43
Client Matrix: WaterDate Sampled: 03/03/2018 1105
Date Received: 03/07/2018 1015**8260B Volatile Organic Compounds (GC/MS)**

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7228.D
Dilution:	5.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0908			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0908				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	9.5	U	9.5	50
Benzene	0.80	U	0.80	5.0
Bromobenzene	0.85	U	0.85	5.0
Bromochloromethane	0.50	U	0.50	5.0
Bromodichloromethane	0.85	U	0.85	5.0
Bromoform	0.95	U	0.95	5.0
Bromomethane	1.1	U	1.1	5.0
2-Butanone (MEK)	10	U	10	25
n-Butylbenzene	1.6	U	1.6	5.0
sec-Butylbenzene	0.85	U	0.85	5.0
tert-Butylbenzene	0.80	U	0.80	5.0
Carbon disulfide	2.3	U	2.3	5.0
Carbon tetrachloride	0.95	U	0.95	5.0
Chlorobenzene	0.85	U	0.85	5.0
Dibromochloromethane	0.85	U	0.85	5.0
Chloroethane	2.1	U	2.1	5.0
Chloroform	0.80	U	0.80	5.0
Chloromethane	1.5	U	1.5	5.0
2-Chlorotoluene	0.85	U	0.85	5.0
4-Chlorotoluene	1.1	U	1.1	5.0
1,2-Dibromo-3-Chloropropane	2.4	U	2.4	5.0
Dibromomethane	0.85	U	0.85	5.0
1,2-Dichlorobenzene	0.75	U	0.75	5.0
1,3-Dichlorobenzene	0.65	U	0.65	5.0
1,4-Dichlorobenzene	0.80	U	0.80	5.0
Dichlorodifluoromethane	1.6	U	1.6	5.0
1,1-Dichloroethane	1.1	U	1.1	5.0
1,2-Dichloroethane	0.65	U	0.65	5.0
trans-1,2-Dichloroethene	15		0.75	5.0
1,1-Dichloroethene	70		1.2	5.0
1,2-Dichloropropane	0.90	U	0.90	5.0
1,3-Dichloropropane	1.1	U	1.1	5.0
2,2-Dichloropropane	0.90	U	0.90	5.0
cis-1,3-Dichloropropene	0.80	U	0.80	5.0
trans-1,3-Dichloropropene	0.95	U	0.95	5.0
1,1-Dichloropropene	0.95	U	0.95	5.0
Ethylbenzene	0.80	U	0.80	5.0
Hexachlorobutadiene	1.8	U	1.8	5.0
2-Hexanone	8.5	U	8.5	25
Isopropylbenzene	0.95	U	0.95	5.0
4-Isopropyltoluene	1.0	U	1.0	5.0
Methylene Chloride	1.6	U	1.6	5.0
4-Methyl-2-pentanone	4.9	U	4.9	25
Naphthalene	1.1	U	1.1	5.0
n-Propylbenzene	0.80	U	0.80	5.0
Styrene	0.85	U	0.85	5.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-065

Lab Sample ID: 280-107174-43
Client Matrix: Water

Date Sampled: 03/03/2018 1105
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7228.D
Dilution:	5.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0908			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0908				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	1.1	U	1.1	5.0
1,1,2,2-Tetrachloroethane	1.1	U	1.1	5.0
Tetrachloroethene	1.0	U	1.0	5.0
Toluene	0.85	U	0.85	5.0
1,2,3-Trichlorobenzene	1.1	U	1.1	5.0
1,2,4-Trichlorobenzene	1.1	U	1.1	5.0
1,1,1-Trichloroethane	0.80	U	0.80	5.0
1,1,2-Trichloroethane	1.4	U	1.4	5.0
Trichloroethene	0.80	U	0.80	5.0
Trichlorofluoromethane	1.5	U	1.5	5.0
1,2,3-Trichloropropane	1.7	U	1.7	5.0
1,2,4-Trimethylbenzene	0.75	U	0.75	5.0
1,3,5-Trimethylbenzene	0.80	U	0.80	5.0
Xylenes, Total	0.95	U	0.95	5.0
1,2-Dibromoethane	0.90	U	0.90	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	104		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	109		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-065

Lab Sample ID: 280-107174-43
Client Matrix: Water

Date Sampled: 03/03/2018 1105
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7253.D
Dilution:	50			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1718	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1718				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
cis-1,2-Dichloroethene	2000		7.5	50
Vinyl chloride	590		5.0	50

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 127
Toluene-d8 (Surr)	101		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	113		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-066

Lab Sample ID: 280-107174-44
Client Matrix: Water

Date Sampled: 03/03/2018 1205
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7226.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0827			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0827				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	140		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.47	J	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.25	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.17	J	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.33	J	0.32	1.0
4-Methyl-2-pentanone	2.4	J	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-066

Lab Sample ID: 280-107174-44
Client Matrix: Water

Date Sampled: 03/03/2018 1205
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7226.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0827			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0827				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	103		80 - 125
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-066

Lab Sample ID: 280-107174-44
Client Matrix: Water

Date Sampled: 03/03/2018 1205
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7254.D
Dilution:	2.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1737	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1737				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
2-Butanone (MEK)	390		4.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	113		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-067

Lab Sample ID: 280-107174-45
Client Matrix: Water

Date Sampled: 03/03/2018 1220
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7248.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1543			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1543				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	4.5	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.26	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-067

Lab Sample ID: 280-107174-45
Client Matrix: Water

Date Sampled: 03/03/2018 1220
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7248.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1543			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1543				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	1.1		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	107		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002**Client Sample ID: PIN12-01.1802002-068**Lab Sample ID: 280-107174-46
Client Matrix: WaterDate Sampled: 03/03/2018 1240
Date Received: 03/07/2018 1015**8260B Volatile Organic Compounds (GC/MS)**

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7229.D
Dilution:	40			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0938			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0938				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	76	U	76	400
Benzene	6.4	U	6.4	40
Bromobenzene	6.8	U	6.8	40
Bromochloromethane	4.0	U	4.0	40
Bromodichloromethane	6.8	U	6.8	40
Bromoform	7.6	U	7.6	40
Bromomethane	8.4	U	8.4	40
2-Butanone (MEK)	80	U	80	200
n-Butylbenzene	13	U	13	40
sec-Butylbenzene	6.8	U	6.8	40
tert-Butylbenzene	6.4	U	6.4	40
Carbon disulfide	18	U	18	40
Carbon tetrachloride	7.6	U	7.6	40
Chlorobenzene	6.8	U	6.8	40
Dibromochloromethane	6.8	U	6.8	40
Chloroethane	16	U	16	40
Chloroform	6.4	U	6.4	40
Chloromethane	12	U	12	40
2-Chlorotoluene	6.8	U	6.8	40
4-Chlorotoluene	8.4	U	8.4	40
1,2-Dibromo-3-Chloropropane	19	U	19	40
Dibromomethane	6.8	U	6.8	40
1,2-Dichlorobenzene	6.0	U	6.0	40
1,3-Dichlorobenzene	5.2	U	5.2	40
1,4-Dichlorobenzene	6.4	U	6.4	40
Dichlorodifluoromethane	12	U	12	40
1,1-Dichloroethane	8.8	U	8.8	40
1,2-Dichloroethane	5.2	U	5.2	40
trans-1,2-Dichloroethene	73		6.0	40
1,1-Dichloroethene	530		9.2	40
1,2-Dichloropropane	7.2	U	7.2	40
1,3-Dichloropropane	8.8	U	8.8	40
2,2-Dichloropropane	7.2	U	7.2	40
cis-1,3-Dichloropropene	6.4	U	6.4	40
trans-1,3-Dichloropropene	7.6	U	7.6	40
1,1-Dichloropropene	7.6	U	7.6	40
Ethylbenzene	6.4	U	6.4	40
Hexachlorobutadiene	14	U	14	40
2-Hexanone	68	U	68	200
Isopropylbenzene	7.6	U	7.6	40
4-Isopropyltoluene	8.0	U	8.0	40
Methylene Chloride	13	U	13	40
4-Methyl-2-pentanone	39	U	39	200
Naphthalene	8.8	U	8.8	40
n-Propylbenzene	6.4	U	6.4	40
Styrene	6.8	U	6.8	40

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-068

Lab Sample ID: 280-107174-46
Client Matrix: Water

Date Sampled: 03/03/2018 1240
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7229.D
Dilution:	40			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0938			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0938				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	8.4	U	8.4	40
1,1,2,2-Tetrachloroethane	8.4	U	8.4	40
Tetrachloroethene	8.0	U	8.0	40
Toluene	6.8	U	6.8	40
1,2,3-Trichlorobenzene	8.4	U	8.4	40
1,2,4-Trichlorobenzene	8.4	U	8.4	40
1,1,1-Trichloroethane	6.4	U	6.4	40
1,1,2-Trichloroethane	11	U	11	40
Trichloroethene	1600		6.4	40
Trichlorofluoromethane	12	U	12	40
1,2,3-Trichloropropane	13	U	13	40
1,2,4-Trimethylbenzene	6.0	U	6.0	40
1,3,5-Trimethylbenzene	6.4	U	6.4	40
Xylenes, Total	7.6	U	7.6	40
1,2-Dibromoethane	7.2	U	7.2	40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 127
Toluene-d8 (Surr)	105		80 - 125
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	109		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-068

Lab Sample ID: 280-107174-46
Client Matrix: Water

Date Sampled: 03/03/2018 1240
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7255.D
Dilution:	400			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1756	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1756				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
cis-1,2-Dichloroethene	9000		60	400
Vinyl chloride	2300		40	400

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 127
Toluene-d8 (Surr)	103		80 - 125
4-Bromofluorobenzene (Surr)	90		78 - 120
Dibromofluoromethane (Surr)	113		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-069

Lab Sample ID: 280-107174-47
Client Matrix: Water

Date Sampled: 03/03/2018 1345
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7249.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1602			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1602				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	15		1.9	10
Benzene	0.22	J	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.9	J	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	1.0		0.15	1.0
trans-1,2-Dichloroethene	1.1		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-069

Lab Sample ID: 280-107174-47
Client Matrix: Water

Date Sampled: 03/03/2018 1345
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7249.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1602			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1602				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.54	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.94	J	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.84	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	89		78 - 120
Dibromofluoromethane (Surr)	109		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-079

Lab Sample ID: 280-107174-48
Client Matrix: Water

Date Sampled: 03/02/2018 1100
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7175.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1100			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1100				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	5.0	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.45	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	41		0.15	1.0
trans-1,2-Dichloroethene	7.1		0.15	1.0
1,1-Dichloroethene	0.51	J	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.48	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-079

Lab Sample ID: 280-107174-48
Client Matrix: Water

Date Sampled: 03/02/2018 1100
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7175.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1100			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1100				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	9.8		0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	37		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	86		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-080

Lab Sample ID: 280-107174-49
Client Matrix: Water

Date Sampled: 03/02/2018 1145
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7176.D
Dilution:	4.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1121			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1121				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.6	U	7.6	40
Benzene	0.64	U	0.64	4.0
Bromobenzene	0.68	U	0.68	4.0
Bromochloromethane	0.40	U	0.40	4.0
Bromodichloromethane	0.68	U	0.68	4.0
Bromoform	0.76	U	0.76	4.0
Bromomethane	0.84	U	0.84	4.0
2-Butanone (MEK)	8.0	U	8.0	20
n-Butylbenzene	1.3	U	1.3	4.0
sec-Butylbenzene	0.68	U	0.68	4.0
tert-Butylbenzene	0.64	U	0.64	4.0
Carbon disulfide	1.8	U	1.8	4.0
Carbon tetrachloride	0.76	U	0.76	4.0
Chlorobenzene	0.68	U	0.68	4.0
Dibromochloromethane	0.68	U	0.68	4.0
Chloroethane	1.6	U	1.6	4.0
Chloroform	0.64	U	0.64	4.0
Chloromethane	1.2	U	1.2	4.0
2-Chlorotoluene	0.68	U	0.68	4.0
4-Chlorotoluene	0.84	U	0.84	4.0
1,2-Dibromo-3-Chloropropane	1.9	U	1.9	4.0
Dibromomethane	0.68	U	0.68	4.0
1,2-Dichlorobenzene	0.60	U	0.60	4.0
1,3-Dichlorobenzene	0.52	U	0.52	4.0
1,4-Dichlorobenzene	0.64	U	0.64	4.0
Dichlorodifluoromethane	1.2	U	1.2	4.0
1,1-Dichloroethane	0.88	U	0.88	4.0
1,2-Dichloroethane	0.52	U	0.52	4.0
trans-1,2-Dichloroethene	62		0.60	4.0
1,1-Dichloroethene	30		0.92	4.0
1,2-Dichloropropane	0.72	U	0.72	4.0
1,3-Dichloropropane	0.88	U	0.88	4.0
2,2-Dichloropropane	0.72	U	0.72	4.0
cis-1,3-Dichloropropene	0.64	U	0.64	4.0
trans-1,3-Dichloropropene	0.76	U	0.76	4.0
1,1-Dichloropropene	0.76	U	0.76	4.0
Ethylbenzene	0.64	U	0.64	4.0
Hexachlorobutadiene	1.4	U	1.4	4.0
2-Hexanone	6.8	U	6.8	20
Isopropylbenzene	0.76	U	0.76	4.0
4-Isopropyltoluene	0.80	U	0.80	4.0
Methylene Chloride	3.2	J	1.3	4.0
4-Methyl-2-pentanone	3.9	U	3.9	20
Naphthalene	0.88	U	0.88	4.0
n-Propylbenzene	0.64	U	0.64	4.0
Styrene	0.68	U	0.68	4.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-080

Lab Sample ID: 280-107174-49
Client Matrix: Water

Date Sampled: 03/02/2018 1145
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7176.D
Dilution:	4.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1121			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1121				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.84	U	0.84	4.0
1,1,2,2-Tetrachloroethane	0.84	U	0.84	4.0
Tetrachloroethene	0.80	U	0.80	4.0
Toluene	0.68	U	0.68	4.0
1,2,3-Trichlorobenzene	0.84	U	0.84	4.0
1,2,4-Trichlorobenzene	0.84	U	0.84	4.0
1,1,1-Trichloroethane	0.64	U	0.64	4.0
1,1,2-Trichloroethane	1.1	U	1.1	4.0
Trichloroethene	130		0.64	4.0
Trichlorofluoromethane	1.2	U	1.2	4.0
1,2,3-Trichloropropane	1.3	U	1.3	4.0
1,2,4-Trimethylbenzene	0.60	U	0.60	4.0
1,3,5-Trimethylbenzene	0.64	U	0.64	4.0
Vinyl chloride	100		0.40	4.0
Xylenes, Total	0.76	U	0.76	4.0
1,2-Dibromoethane	0.72	U	0.72	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	104		78 - 120
Dibromofluoromethane (Surr)	87		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-080

Lab Sample ID: 280-107174-49
Client Matrix: Water

Date Sampled: 03/02/2018 1145
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7193.D
Dilution:	40			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1720	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1720				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
cis-1,2-Dichloroethene	730		6.0	40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Toluene-d8 (Surr)	103		80 - 125
4-Bromofluorobenzene (Surr)	110		78 - 120
Dibromofluoromethane (Surr)	93		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-081

Lab Sample ID: 280-107174-50
Client Matrix: Water

Date Sampled: 03/02/2018 1230
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7177.D
Dilution:	100			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1142			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1142				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	190	U	190	1000
Benzene	16	U	16	100
Bromobenzene	17	U	17	100
Bromochloromethane	10	U	10	100
Bromodichloromethane	17	U	17	100
Bromoform	19	U	19	100
Bromomethane	21	U	21	100
2-Butanone (MEK)	200	U	200	500
n-Butylbenzene	32	U	32	100
sec-Butylbenzene	17	U	17	100
tert-Butylbenzene	16	U	16	100
Carbon disulfide	45	U	45	100
Carbon tetrachloride	19	U	19	100
Chlorobenzene	17	U	17	100
Dibromochloromethane	17	U	17	100
Chloroethane	41	U	41	100
Chloroform	16	U	16	100
Chloromethane	30	U	30	100
2-Chlorotoluene	17	U	17	100
4-Chlorotoluene	21	U	21	100
1,2-Dibromo-3-Chloropropane	47	U	47	100
Dibromomethane	17	U	17	100
1,2-Dichlorobenzene	15	U	15	100
1,3-Dichlorobenzene	13	U	13	100
1,4-Dichlorobenzene	16	U	16	100
Dichlorodifluoromethane	31	U	31	100
1,1-Dichloroethane	22	U	22	100
1,2-Dichloroethane	13	U	13	100
trans-1,2-Dichloroethene	1800		15	100
1,1-Dichloroethene	290		23	100
1,2-Dichloropropane	18	U	18	100
1,3-Dichloropropane	22	U	22	100
2,2-Dichloropropane	18	U	18	100
cis-1,3-Dichloropropene	16	U	16	100
trans-1,3-Dichloropropene	19	U	19	100
1,1-Dichloropropene	19	U	19	100
Ethylbenzene	16	U	16	100
Hexachlorobutadiene	36	U	36	100
2-Hexanone	170	U	170	500
Isopropylbenzene	19	U	19	100
4-Isopropyltoluene	20	U	20	100
Methylene Chloride	32	J	32	100
4-Methyl-2-pentanone	98	U	98	500
Naphthalene	22	U	22	100
n-Propylbenzene	16	U	16	100
Styrene	17	U	17	100

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-081

Lab Sample ID: 280-107174-50
Client Matrix: Water

Date Sampled: 03/02/2018 1230
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7177.D
Dilution:	100			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1142			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1142				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	21	U	21	100
1,1,2,2-Tetrachloroethane	21	U	21	100
Tetrachloroethene	20	U	20	100
Toluene	17	U	17	100
1,2,3-Trichlorobenzene	21	U	21	100
1,2,4-Trichlorobenzene	21	U	21	100
1,1,1-Trichloroethane	16	U	16	100
1,1,2-Trichloroethane	27	U	27	100
Trichlorofluoromethane	29	U	29	100
1,2,3-Trichloropropane	33	U	33	100
1,2,4-Trimethylbenzene	15	U	15	100
1,3,5-Trimethylbenzene	16	U	16	100
Vinyl chloride	4600		10	100
Xylenes, Total	19	U	19	100
1,2-Dibromoethane	18	U	18	100

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	88		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-081

Lab Sample ID: 280-107174-50
Client Matrix: Water

Date Sampled: 03/02/2018 1230
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7194.D
Dilution:	1000			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1741	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1741				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
cis-1,2-Dichloroethene	17000		150	1000
Trichloroethene	16000		160	1000

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	102		78 - 120
Dibromofluoromethane (Surr)	90		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-082

Lab Sample ID: 280-107174-51
Client Matrix: Water

Date Sampled: 03/02/2018 0930
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7178.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1204			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1204				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	9.9	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	19		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	8.2		0.15	1.0
trans-1,2-Dichloroethene	3.3		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.42	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-082

Lab Sample ID: 280-107174-51
Client Matrix: Water

Date Sampled: 03/02/2018 0930
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7178.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1204			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1204				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	87		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-082

Lab Sample ID: 280-107174-51
Client Matrix: Water

Date Sampled: 03/02/2018 0930
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7195.D
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1802	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1802				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Vinyl chloride	150		1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	103		78 - 120
Dibromofluoromethane (Surr)	94		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-083

Lab Sample ID: 280-107174-52
Client Matrix: Water

Date Sampled: 03/02/2018 1010
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7187.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1514			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1514				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	13		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	4.7	J	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.86	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.29	J	0.15	1.0
trans-1,2-Dichloroethene	7.5		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-083

Lab Sample ID: 280-107174-52
Client Matrix: Water

Date Sampled: 03/02/2018 1010
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7187.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1514			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1514				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.21	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	29		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-084

Lab Sample ID: 280-107174-53
Client Matrix: Water

Date Sampled: 03/02/2018 0855
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7188.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1535			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1535				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	9.5	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	1.4		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	1.6		0.15	1.0
trans-1,2-Dichloroethene	2.0		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-084

Lab Sample ID: 280-107174-53
Client Matrix: Water

Date Sampled: 03/02/2018 0855
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7188.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1535			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1535				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	8.8		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	103		78 - 120
Dibromofluoromethane (Surr)	91		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-085

Lab Sample ID: 280-107174-54
Client Matrix: Water

Date Sampled: 03/02/2018 1550
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7189.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1556			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1556				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	10		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.36	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-085

Lab Sample ID: 280-107174-54
Client Matrix: Water

Date Sampled: 03/02/2018 1550
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7189.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1556			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1556				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.52	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	90		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-086

Lab Sample ID: 280-107174-55
Client Matrix: Water

Date Sampled: 03/02/2018 1630
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7190.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1617			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1617				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.4	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.82	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	15		0.15	1.0
trans-1,2-Dichloroethene	0.34	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-086

Lab Sample ID: 280-107174-55
Client Matrix: Water

Date Sampled: 03/02/2018 1630
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7190.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1617			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1617				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	13		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	102		78 - 120
Dibromofluoromethane (Surr)	90		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-088

Lab Sample ID: 280-107174-56
Client Matrix: Water

Date Sampled: 03/05/2018 0830
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7250.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1621			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1621				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	8.4	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-088

Lab Sample ID: 280-107174-56
Client Matrix: Water

Date Sampled: 03/05/2018 0830
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7250.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1621			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1621				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 127
Toluene-d8 (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	81		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-089

Lab Sample ID: 280-107174-57
Client Matrix: Water

Date Sampled: 03/05/2018 0920
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7251.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1640			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1640				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	23		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.67	J	0.15	1.0
trans-1,2-Dichloroethene	0.18	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-089

Lab Sample ID: 280-107174-57
Client Matrix: Water

Date Sampled: 03/05/2018 0920
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7251.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1640			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1640				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.44	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	109		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-090

Lab Sample ID: 280-107174-58
Client Matrix: Water

Date Sampled: 03/05/2018 1110
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7252.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1659			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1659				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	41		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.41	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-090

Lab Sample ID: 280-107174-58
Client Matrix: Water

Date Sampled: 03/05/2018 1110
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7252.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1659			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1659				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.43	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	109		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-091

Lab Sample ID: 280-107174-59
Client Matrix: Water

Date Sampled: 03/05/2018 1315
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407810	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7301.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1045			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1045				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	10		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	11		0.15	1.0
trans-1,2-Dichloroethene	0.36	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-091

Lab Sample ID: 280-107174-59
Client Matrix: Water

Date Sampled: 03/05/2018 1315
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407810	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7301.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1045			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1045				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	3.0		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	101		80 - 125
4-Bromofluorobenzene (Surr)	88		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-092

Lab Sample ID: 280-107174-60
Client Matrix: Water

Date Sampled: 03/05/2018 1415
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407810	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7302.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1104			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1104				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	4.1	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	1.3		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	1.9		0.15	1.0
trans-1,2-Dichloroethene	0.60	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-092

Lab Sample ID: 280-107174-60
Client Matrix: Water

Date Sampled: 03/05/2018 1415
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407810	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7302.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1104			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1104				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	4.9		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	85		78 - 120
Dibromofluoromethane (Surr)	99		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-093

Lab Sample ID: 280-107174-61
Client Matrix: Water

Date Sampled: 03/05/2018 1335
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407810	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7303.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1123			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1123				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	6.0	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.47	J	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	4.6		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	11		0.15	1.0
trans-1,2-Dichloroethene	4.1		0.15	1.0
1,1-Dichloroethene	0.26	J	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-093

Lab Sample ID: 280-107174-61
Client Matrix: Water

Date Sampled: 03/05/2018 1335
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407810	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7303.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1123			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1123				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	8.9		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	87		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-097

Lab Sample ID: 280-107174-62
Client Matrix: Water

Date Sampled: 03/02/2018 1655
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7191.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1638			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1638				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.1	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-097

Lab Sample ID: 280-107174-62
Client Matrix: Water

Date Sampled: 03/02/2018 1655
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7191.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1638			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1638				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.59	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	104		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-098

Lab Sample ID: 280-107174-63
Client Matrix: Water

Date Sampled: 03/05/2018 0815
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407810	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7304.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1142			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1142				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	6.4	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.87	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	2.1		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-098

Lab Sample ID: 280-107174-63
Client Matrix: Water

Date Sampled: 03/05/2018 0815
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407810	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7304.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1142			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1142				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	11		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	88		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-099

Lab Sample ID: 280-107174-64
Client Matrix: Water

Date Sampled: 03/02/2018 1715
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7192.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1659			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1659				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	6.0	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.18	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-099

Lab Sample ID: 280-107174-64
Client Matrix: Water

Date Sampled: 03/02/2018 1715
Date Received: 03/07/2018 1015

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407503	Instrument ID:	VMS_MS9
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	MS9_7192.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 1659			Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 1659				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.43	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Toluene-d8 (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.100

Lab Sample ID: 280-107174-1
Client Matrix: Water

Date Sampled: 03/03/2018 1205
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407802	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7018.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1413			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1413				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.8		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	117		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.103

Lab Sample ID: 280-107174-2
Client Matrix: Water

Date Sampled: 03/03/2018 1200
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7023.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1530			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1530				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.5		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	113		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.104

Lab Sample ID: 280-107174-3
Client Matrix: Water

Date Sampled: 03/02/2018 1200
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6963.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1510			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1510				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.1		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	93		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-001

Lab Sample ID: 280-107174-6
Client Matrix: Water

Date Sampled: 03/03/2018 1310
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7024.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1548			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1548				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	2.1		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	117		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-002

Lab Sample ID: 280-107174-7
Client Matrix: Water

Date Sampled: 03/03/2018 1700
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7026.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1624			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1624				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	5.1		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	116		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-003

Lab Sample ID: 280-107174-8
Client Matrix: Water

Date Sampled: 03/02/2018 1510
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6969.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1658			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1658				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.1		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	100		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-004

Lab Sample ID: 280-107174-9
Client Matrix: Water

Date Sampled: 03/02/2018 1540
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407802	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7007.D
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1054			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1054				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	45		2.2	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	107		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-009

Lab Sample ID: 280-107174-10
Client Matrix: Water

Date Sampled: 03/05/2018 1650
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7056.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 0916			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 0916				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-011

Lab Sample ID: 280-107174-11
Client Matrix: Water

Date Sampled: 03/05/2018 1710
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7057.D
Dilution:	20			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 0934			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 0934				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	120		4.4	20
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	98		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-012

Lab Sample ID: 280-107174-12
Client Matrix: Water

Date Sampled: 03/05/2018 1515
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7058.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 0952			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 0952				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	102		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-013

Lab Sample ID: 280-107174-13
Client Matrix: Water

Date Sampled: 03/05/2018 1600
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7059.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1010			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1010				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	109		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-014

Lab Sample ID: 280-107174-14
Client Matrix: Water

Date Sampled: 03/05/2018 1535
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7060.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1028			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1028				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.62	J	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-015

Lab Sample ID: 280-107174-15
Client Matrix: Water

Date Sampled: 03/03/2018 0830
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7029.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1718			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1718				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-016

Lab Sample ID: 280-107174-16
Client Matrix: Water

Date Sampled: 03/03/2018 0900
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7030.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1737			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1737				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-017

Lab Sample ID: 280-107174-17
Client Matrix: Water

Date Sampled: 03/03/2018 0940
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7031.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1755			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1755				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.46	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	108		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-021

Lab Sample ID: 280-107174-18
Client Matrix: Water

Date Sampled: 03/03/2018 0805
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7032.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1813			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1813				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	110		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-022

Lab Sample ID: 280-107174-19
Client Matrix: Water

Date Sampled: 03/03/2018 0830
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7033.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1831			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1831				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.35	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	125		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-023

Lab Sample ID: 280-107174-20
Client Matrix: Water

Date Sampled: 03/03/2018 0855
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7034.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1849			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1849				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	115		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-024

Lab Sample ID: 280-107174-21
Client Matrix: Water

Date Sampled: 03/03/2018 0935
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7035.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1907			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1907				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	121		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-025

Lab Sample ID: 280-107174-22
Client Matrix: Water

Date Sampled: 03/03/2018 1025
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7036.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1925			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1925				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	2.8		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	118		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-026

Lab Sample ID: 280-107174-23
Client Matrix: Water

Date Sampled: 03/03/2018 1125
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7037.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1943			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1943				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.92	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	119		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-027

Lab Sample ID: 280-107174-24
Client Matrix: Water

Date Sampled: 03/02/2018 0930
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6971.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1734			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1734				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.24	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	96		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-028

Lab Sample ID: 280-107174-25
Client Matrix: Water

Date Sampled: 03/02/2018 1000
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6972.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1752			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1752				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.6		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	100		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-029

Lab Sample ID: 280-107174-26
Client Matrix: Water

Date Sampled: 03/02/2018 1025
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6973.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1810			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1810				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.85	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	97		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-043

Lab Sample ID: 280-107174-27
Client Matrix: Water

Date Sampled: 03/05/2018 1415
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7063.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1122			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1122				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.30	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	108		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-044

Lab Sample ID: 280-107174-28
Client Matrix: Water

Date Sampled: 03/05/2018 1445
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7064.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1140			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1140				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.24	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	113		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-045

Lab Sample ID: 280-107174-29
Client Matrix: Water

Date Sampled: 03/05/2018 1515
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7065.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1158			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1158				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	123		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-049

Lab Sample ID: 280-107174-30
Client Matrix: Water

Date Sampled: 03/05/2018 1555
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7066.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1216			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1216				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	122		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-050

Lab Sample ID: 280-107174-31
Client Matrix: Water

Date Sampled: 03/05/2018 1620
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7067.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1234			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1234				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	123		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-051

Lab Sample ID: 280-107174-32
Client Matrix: Water

Date Sampled: 03/05/2018 1650
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7068.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1252			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1252				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-055

Lab Sample ID: 280-107174-33
Client Matrix: Water

Date Sampled: 03/05/2018 1045
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7062.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1508			Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1508				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.37	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	115		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-056

Lab Sample ID: 280-107174-34
Client Matrix: Water

Date Sampled: 03/05/2018 1110
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7063.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1526			Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1526				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-056

Lab Sample ID: 280-107174-34
Client Matrix: Water

Date Sampled: 03/05/2018 1110
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7070.D
Dilution:	20			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1346			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1346				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	270		4.4	20
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	119		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-057

Lab Sample ID: 280-107174-35
Client Matrix: Water

Date Sampled: 03/05/2018 1315
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7064.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1544			Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1544				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.6		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	112		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-058

Lab Sample ID: 280-107174-36
Client Matrix: Water

Date Sampled: 03/05/2018 0910
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7065.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1602			Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1602				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.1		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	116		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-059

Lab Sample ID: 280-107174-37
Client Matrix: Water

Date Sampled: 03/05/2018 0935
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7059.D
Dilution:	5.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1414			Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1414				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	47		1.1	5.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	120		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-060

Lab Sample ID: 280-107174-38
Client Matrix: Water

Date Sampled: 03/05/2018 1010
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7074.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1628			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1628				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	18		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	110		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-061

Lab Sample ID: 280-107174-39
Client Matrix: Water

Date Sampled: 03/02/2018 1205
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6974.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1828			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1828				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.34	J	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-062

Lab Sample ID: 280-107174-40
Client Matrix: Water

Date Sampled: 03/02/2018 1230
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6975.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1846			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1846				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.8		0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-063

Lab Sample ID: 280-107174-41
Client Matrix: Water

Date Sampled: 03/02/2018 1320
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6976.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1904			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1904				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.35	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	105		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-064

Lab Sample ID: 280-107174-42
Client Matrix: Water

Date Sampled: 03/03/2018 1035
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7038.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 2001			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 2001				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	2.1		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	113		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-065

Lab Sample ID: 280-107174-43
Client Matrix: Water

Date Sampled: 03/03/2018 1105
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7039.D
Dilution:	4.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 2019			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 2019				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.3	J	0.88	4.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	109		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-066

Lab Sample ID: 280-107174-44
Client Matrix: Water

Date Sampled: 03/03/2018 1205
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7040.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 2037			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 2037				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	2.6		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	117		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-067

Lab Sample ID: 280-107174-45
Client Matrix: Water

Date Sampled: 03/03/2018 1220
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7041.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 2055			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 2055				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	6.6		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	107		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-068

Lab Sample ID: 280-107174-46
Client Matrix: Water

Date Sampled: 03/03/2018 1240
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7042.D
Dilution:	20			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 2113			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 2113				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	9.5	J	4.4	20
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	105		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-069

Lab Sample ID: 280-107174-47
Client Matrix: Water

Date Sampled: 03/03/2018 1345
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7043.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 2131			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 2131				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.7		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	110		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-079

Lab Sample ID: 280-107174-48
Client Matrix: Water

Date Sampled: 03/02/2018 1100
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407802	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7008.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1112			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1112				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-080

Lab Sample ID: 280-107174-49
Client Matrix: Water

Date Sampled: 03/02/2018 1145
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407802	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7009.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1130			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1130				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-081

Lab Sample ID: 280-107174-50
Client Matrix: Water

Date Sampled: 03/02/2018 1230
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407802	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7010.D
Dilution:	100			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1148			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1148				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	22	U	22	100
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	106		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-082

Lab Sample ID: 280-107174-51
Client Matrix: Water

Date Sampled: 03/02/2018 0930
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407802	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7015.D
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1315			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1315				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	71		2.2	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	114		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-083

Lab Sample ID: 280-107174-52
Client Matrix: Water

Date Sampled: 03/02/2018 1010
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6981.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2034			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2034				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.9		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	96		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-084

Lab Sample ID: 280-107174-53
Client Matrix: Water

Date Sampled: 03/02/2018 0855
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6982.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2052			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2052				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.1		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	99		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-085

Lab Sample ID: 280-107174-54
Client Matrix: Water

Date Sampled: 03/02/2018 1550
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6983.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2110			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2110				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	98		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-086

Lab Sample ID: 280-107174-55
Client Matrix: Water

Date Sampled: 03/02/2018 1630
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E6984.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2128			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2128				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.4		0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-088

Lab Sample ID: 280-107174-56
Client Matrix: Water

Date Sampled: 03/05/2018 0830
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8034.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 1706			Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 1706				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.28	J	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-089

Lab Sample ID: 280-107174-57
Client Matrix: Water

Date Sampled: 03/05/2018 0920
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7076.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1712			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1712				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.8		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	106		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-090

Lab Sample ID: 280-107174-58
Client Matrix: Water

Date Sampled: 03/05/2018 1110
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7077.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 1730			Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 1730				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.28	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	110		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-091

Lab Sample ID: 280-107174-59
Client Matrix: Water

Date Sampled: 03/05/2018 1315
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7067.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1713			Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1713				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.43	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	112		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-092

Lab Sample ID: 280-107174-60
Client Matrix: Water

Date Sampled: 03/05/2018 1415
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7068.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1731			Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1731				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	17		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	109		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-093

Lab Sample ID: 280-107174-61
Client Matrix: Water

Date Sampled: 03/05/2018 1335
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7069.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1749			Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1749				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	18		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	106		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-097

Lab Sample ID: 280-107174-62
Client Matrix: Water

Date Sampled: 03/02/2018 1655
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7044.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 2149			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 2149				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	107		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-098

Lab Sample ID: 280-107174-63
Client Matrix: Water

Date Sampled: 03/05/2018 0815
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7070.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1807			Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1807				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	5.7		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	110		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-099

Lab Sample ID: 280-107174-64
Client Matrix: Water

Date Sampled: 03/02/2018 1715
Date Received: 03/07/2018 1015

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E7045.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 2207			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 2207				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.2		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	104		70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-107174-1	PIN12-01.1802002.10 0	96	86	98	98
280-107174-1 DL	PIN12-01.1802002.10 0 DL	103	91	108	97
280-107174-2	PIN12-01.1802002.10 3	104	93	109	100
280-107174-2 DL	PIN12-01.1802002.10 3 DL	105	94	107	99
280-107174-3	PIN12-01.1802002.10 4	100	92	101	101
280-107174-4	PIN12-01.1802002.10 6	94	81	99	89
280-107174-5	PIN12-01.1802002.11 1	99	88	103	97
280-107174-6	PIN12-01.1802002-00 1	104	97	104	103
280-107174-6 DL	PIN12-01.1802002-00 1 DL	105	95	103	99
280-107174-7	PIN12-01.1802002-00 2	104	95	104	105
280-107174-8	PIN12-01.1802002-00 3	100	93	101	104
280-107174-9	PIN12-01.1802002-00 4	101	93	100	102
280-107174-10	PIN12-01.1802002-00 9	101	93	102	102
280-107174-11	PIN12-01.1802002-01 1	94	89	96	97
280-107174-12	PIN12-01.1802002-01 2	106	99	111	110
280-107174-13	PIN12-01.1802002-01 3	103	98	108	108
280-107174-14	PIN12-01.1802002-01 4	101	96	106	108
280-107174-15	PIN12-01.1802002-01 5	107	100	112	111

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-107174-16	PIN12-01.1802002-01 6	98	91	98	101
280-107174-17	PIN12-01.1802002-01 7	109	104	109	109
280-107174-18	PIN12-01.1802002-02 1	105	99	111	110
280-107174-19	PIN12-01.1802002-02 2	104	99	106	109
280-107174-20	PIN12-01.1802002-02 3	91	87	95	96
280-107174-21	PIN12-01.1802002-02 4	94	98	98	102
280-107174-22	PIN12-01.1802002-02 5	93	98	97	98
280-107174-23	PIN12-01.1802002-02 6	89	97	102	90
280-107174-24	PIN12-01.1802002-02 7	88	90	111	89
280-107174-25	PIN12-01.1802002-02 8	92	96	110	86
280-107174-26	PIN12-01.1802002-02 9	88	94	98	106
280-107174-27	PIN12-01.1802002-04 3	81	80	98	99
280-107174-28	PIN12-01.1802002-04 4	89	92	96	99
280-107174-29	PIN12-01.1802002-04 5	92	98	99	101
280-107174-30	PIN12-01.1802002-04 9	97	106	99	105
280-107174-31	PIN12-01.1802002-05 0	89	96	93	98
280-107174-32	PIN12-01.1802002-05 1	90	98	92	97
280-107174-33	PIN12-01.1802002-05 5	88	98	93	97

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-107174-34	PIN12-01.1802002-05 6	87	86	99	100
280-107174-34 DL	PIN12-01.1802002-05 6 DL	93	101	98	100
280-107174-35	PIN12-01.1802002-05 7	89	99	93	99
280-107174-36	PIN12-01.1802002-05 8	91	102	94	100
280-107174-37	PIN12-01.1802002-05 9	84	86	96	97
280-107174-38	PIN12-01.1802002-06 0	88	99	96	98
280-107174-39	PIN12-01.1802002-06 1	89	96	96	101
280-107174-40	PIN12-01.1802002-06 2	89	99	98	101
280-107174-41	PIN12-01.1802002-06 3	87	98	95	98
280-107174-42	PIN12-01.1802002-06 4	106	99	99	94
280-107174-43	PIN12-01.1802002-06 5	109	98	104	94
280-107174-43 DL	PIN12-01.1802002-06 5 DL	113	108	101	94
280-107174-44	PIN12-01.1802002-06 6	104	96	103	92
280-107174-44 DL	PIN12-01.1802002-06 6 DL	113	112	99	93
280-107174-45	PIN12-01.1802002-06 7	107	103	98	93
280-107174-46	PIN12-01.1802002-06 8	109	100	105	92
280-107174-46 DL	PIN12-01.1802002-06 8 DL	113	108	103	90
280-107174-47	PIN12-01.1802002-06 9	109	106	98	89

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-107174-48	PIN12-01.1802002-079	86	84	99	100
280-107174-49	PIN12-01.1802002-080	87	87	99	104
280-107174-49 DL	PIN12-01.1802002-080 DL	93	102	103	110
280-107174-50	PIN12-01.1802002-081	88	86	99	101
280-107174-50 DL	PIN12-01.1802002-081 DL	90	98	95	102
280-107174-51	PIN12-01.1802002-082	87	90	97	100
280-107174-51 DL	PIN12-01.1802002-082 DL	94	101	97	103
280-107174-52	PIN12-01.1802002-083	89	96	97	99
280-107174-53	PIN12-01.1802002-084	91	100	98	103
280-107174-54	PIN12-01.1802002-085	90	98	96	100
280-107174-55	PIN12-01.1802002-086	90	97	95	102
280-107174-56	PIN12-01.1802002-088	101	95	94	81
280-107174-57	PIN12-01.1802002-089	109	105	97	94
280-107174-58	PIN12-01.1802002-090	109	108	99	94
280-107174-59	PIN12-01.1802002-091	102	99	101	88
280-107174-60	PIN12-01.1802002-092	99	98	94	85
280-107174-61	PIN12-01.1802002-093	103	101	97	87
280-107174-62	PIN12-01.1802002-097	89	101	96	104

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-107174-63	PIN12-01.1802002-09 8	106	107	96	88
280-107174-64	PIN12-01.1802002-09 9	89	102	94	99
MB 280-407503/6		84	79	98	100
MB 280-407514/6		98	99	101	116
MB 280-407518/6		103	93	109	107
MB 280-407637/6		97	102	103	105
MB 280-407638/6		107	100	102	93
MB 280-407810/6		97	94	93	84
LCS 280-407503/4		82	80	101	100
LCS 280-407514/4		98	103	114	109
LCS 280-407518/4		94	83	100	95
LCS 280-407637/4		87	87	101	102
LCS 280-407638/4		104	99	98	88
LCS 280-407810/4		100	97	97	85
LCSD 280-407503/5		82	78	96	93
LCSD 280-407514/5		94	96	99	113
280-107174-1 MS	PIN12-01.1802002.10 0 MS	104	95	107	104
280-106956-B-10 MS		88	91	98	98
280-107062-A-4 MS		92	98	108	97
280-107123-B-8 MS		85	94	97	101
580-75480-E-8 MS		101	90	95	86
280-107165-D-4 MS		102	103	95	84
280-107174-1 MSD	PIN12-01.1802002.10 0 MSD	93	86	95	92
280-106956-B-10 MSD		89	94	102	102
280-107062-A-4 MSD		93	96	106	93
280-107123-B-8 MSD		89	95	101	100
580-75480-D-8 MSD		104	95	100	89

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-107165-D-4 MSD		103	102	97	84

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec
280-107174-1	PIN12-01.1802002.10 0	117
280-107174-2	PIN12-01.1802002.10 3	113
280-107174-3	PIN12-01.1802002.10 4	93
280-107174-6	PIN12-01.1802002-00 1	117
280-107174-7	PIN12-01.1802002-00 2	116
280-107174-8	PIN12-01.1802002-00 3	100
280-107174-9	PIN12-01.1802002-00 4	107
280-107174-10	PIN12-01.1802002-00 9	100
280-107174-11	PIN12-01.1802002-01 1	98
280-107174-12	PIN12-01.1802002-01 2	102
280-107174-13	PIN12-01.1802002-01 3	109
280-107174-14	PIN12-01.1802002-01 4	106
280-107174-15	PIN12-01.1802002-01 5	106
280-107174-16	PIN12-01.1802002-01 6	118
280-107174-17	PIN12-01.1802002-01 7	108
280-107174-18	PIN12-01.1802002-02 1	110
280-107174-19	PIN12-01.1802002-02 2	125
280-107174-20	PIN12-01.1802002-02 3	115

Surrogate

DCA = 1,2-Dichloroethane-d4 (Surr)

Acceptance Limits

70-127

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec
280-107174-21	PIN12-01.1802002-02 4	121
280-107174-22	PIN12-01.1802002-02 5	118
280-107174-23	PIN12-01.1802002-02 6	119
280-107174-24	PIN12-01.1802002-02 7	96
280-107174-25	PIN12-01.1802002-02 8	100
280-107174-26	PIN12-01.1802002-02 9	97
280-107174-27	PIN12-01.1802002-04 3	108
280-107174-28	PIN12-01.1802002-04 4	113
280-107174-29	PIN12-01.1802002-04 5	123
280-107174-30	PIN12-01.1802002-04 9	122
280-107174-31	PIN12-01.1802002-05 0	123
280-107174-32	PIN12-01.1802002-05 1	119
280-107174-33	PIN12-01.1802002-05 5	115
280-107174-34	PIN12-01.1802002-05 6	119
280-107174-34	PIN12-01.1802002-05 6	112
280-107174-35	PIN12-01.1802002-05 7	112
280-107174-36	PIN12-01.1802002-05 8	116
280-107174-37	PIN12-01.1802002-05 9	120

Surrogate

DCA = 1,2-Dichloroethane-d4 (Surr)

Acceptance Limits

70-127

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec
280-107174-38	PIN12-01.1802002-06 0	110
280-107174-39	PIN12-01.1802002-06 1	109
280-107174-40	PIN12-01.1802002-06 2	101
280-107174-41	PIN12-01.1802002-06 3	105
280-107174-42	PIN12-01.1802002-06 4	113
280-107174-43	PIN12-01.1802002-06 5	109
280-107174-44	PIN12-01.1802002-06 6	117
280-107174-45	PIN12-01.1802002-06 7	107
280-107174-46	PIN12-01.1802002-06 8	105
280-107174-47	PIN12-01.1802002-06 9	110
280-107174-48	PIN12-01.1802002-07 9	110
280-107174-49	PIN12-01.1802002-08 0	109
280-107174-50	PIN12-01.1802002-08 1	106
280-107174-51	PIN12-01.1802002-08 2	114
280-107174-52	PIN12-01.1802002-08 3	96
280-107174-53	PIN12-01.1802002-08 4	99
280-107174-54	PIN12-01.1802002-08 5	98
280-107174-55	PIN12-01.1802002-08 6	97

Surrogate

DCA = 1,2-Dichloroethane-d4 (Surr)

Acceptance Limits

70-127

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec
280-107174-56	PIN12-01.1802002-08 8	110
280-107174-57	PIN12-01.1802002-08 9	106
280-107174-58	PIN12-01.1802002-09 0	110
280-107174-59	PIN12-01.1802002-09 1	112
280-107174-60	PIN12-01.1802002-09 2	109
280-107174-61	PIN12-01.1802002-09 3	106
280-107174-62	PIN12-01.1802002-09 7	107
280-107174-63	PIN12-01.1802002-09 8	110
280-107174-64	PIN12-01.1802002-09 9	104
MB 280-407744/5		94
MB 280-407802/5		109
MB 280-407880/5		119
MB 280-407943/5		93
MB 280-408141/5		117
MB 280-408256/5		104
LCS 280-407744/3		94
LCS 280-407802/3		104
LCS 280-407880/3		112
LCS 280-407943/3		91
LCS 280-408141/3		115
LCS 280-408256/3		110
LCSD 280-407802/4		100
LCSD 280-407943/4		100
LCSD 280-408141/4		120

Surrogate

DCA = 1,2-Dichloroethane-d4 (Surr)

Acceptance Limits

70-127

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec
280-107174-2 MS	PIN12-01.1802002.10 3 MS	118
280-107174-3 MS	PIN12-01.1802002.10 4 MS	97
280-107174-10 MS	PIN12-01.1802002-00 9 MS	108
280-107174-37 MS	PIN12-01.1802002-05 9 MS	117
280-107174-51 MS	PIN12-01.1802002-08 2 MS	102
280-107263-C-4 MS		114
280-107174-2 MSD	PIN12-01.1802002.10 3 MSD	126
280-107174-3 MSD	PIN12-01.1802002.10 4 MSD	115
280-107174-10 MSD	PIN12-01.1802002-00 9 MSD	105
280-107174-37 MSD	PIN12-01.1802002-05 9 MSD	113
280-107174-51 MSD	PIN12-01.1802002-08 2 MSD	118
280-107263-C-4 MSD		118

Surrogate

DCA = 1,2-Dichloroethane-d4 (Surr)

Acceptance Limits

70-127

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407503

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 280-407503/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 0935
Prep Date: 03/12/2018 0935
Leach Date: N/A

Analysis Batch: 280-407503
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_MS9
Lab File ID: MS9_7171.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407503

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-407503/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 0935
Prep Date: 03/12/2018 0935
Leach Date: N/A

Analysis Batch: 280-407503
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_MS9
Lab File ID: MS9_7171.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	79	70 - 127
Toluene-d8 (Surr)	98	80 - 125
4-Bromofluorobenzene (Surr)	100	78 - 120
Dibromofluoromethane (Surr)	84	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-407503

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 280-407503/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 0907
Prep Date: 03/12/2018 0907
Leach Date: N/A

Analysis Batch: 280-407503
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_MS9
Lab File ID: MS9_7170.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
5 mL

LCSD Lab Sample ID: LCSD 280-407503/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 0957
Prep Date: 03/12/2018 0957
Leach Date: N/A

Analysis Batch: 280-407503
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_MS9
Lab File ID: MS9_7172.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	110	110	65 - 135	0	20		
Bromodichloromethane	94	96	65 - 135	2	20		
Carbon tetrachloride	95	101	65 - 135	6	21		
Chlorobenzene	98	98	65 - 135	0	20		
Chloroform	92	95	65 - 135	3	20		
1,3-Dichlorobenzene	92	95	65 - 135	3	20		
1,1-Dichloroethane	94	96	65 - 135	2	21		
trans-1,2-Dichloroethene	96	98	65 - 135	2	24		
1,1-Dichloroethene	101	100	65 - 136	1	20		
1,2-Dichloropropane	97	94	64 - 135	4	20		
Ethylbenzene	98	102	65 - 135	3	20		
Methylene Chloride	94	98	54 - 141	4	26		
Tetrachloroethene	97	101	65 - 135	4	20		
Toluene	98	99	65 - 135	1	20		
1,1,1-Trichloroethane	93	96	65 - 135	3	20		
Trichloroethene	92	96	65 - 135	3	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	80		78		70 - 127		
Toluene-d8 (Surr)	101		96		80 - 125		
4-Bromofluorobenzene (Surr)	100		93		78 - 120		
Dibromofluoromethane (Surr)	82		82		77 - 120		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-407503

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 280-407503/4 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 0907
Prep Date: 03/12/2018 0907
Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-407503/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 0957
Prep Date: 03/12/2018 0957
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	5.00	5.00	5.49	5.49
Bromodichloromethane	5.00	5.00	4.72	4.81
Carbon tetrachloride	5.00	5.00	4.76	5.05
Chlorobenzene	5.00	5.00	4.90	4.92
Chloroform	5.00	5.00	4.60	4.73
1,3-Dichlorobenzene	5.00	5.00	4.61	4.74
1,1-Dichloroethane	5.00	5.00	4.71	4.82
trans-1,2-Dichloroethene	5.00	5.00	4.81	4.89
1,1-Dichloroethene	5.00	5.00	5.04	4.98
1,2-Dichloropropane	5.00	5.00	4.87	4.70
Ethylbenzene	5.00	5.00	4.92	5.08
Methylene Chloride	5.00	5.00	4.69	4.90
Tetrachloroethene	5.00	5.00	4.84	5.05
Toluene	5.00	5.00	4.88	4.94
1,1,1-Trichloroethane	5.00	5.00	4.67	4.81
Trichloroethene	5.00	5.00	4.62	4.78

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407503

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-106956-B-10 MS	Analysis Batch: 280-407503	Instrument ID: VMS_MS9
Client Matrix: Water	Prep Batch: N/A	Lab File ID: MS9_7179.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/12/2018 1225		Final Weight/Volume: 20 mL
Prep Date: 03/12/2018 1225		5 mL
Leach Date: N/A		

MSD Lab Sample ID: 280-106956-B-10 MSD	Analysis Batch: 280-407503	Instrument ID: VMS_MS9
Client Matrix: Water	Prep Batch: N/A	Lab File ID: MS9_7180.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/12/2018 1246		Final Weight/Volume: 20 mL
Prep Date: 03/12/2018 1246		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	96	111	65 - 135	15	20		
Bromodichloromethane	92	101	65 - 135	9	20		
Carbon tetrachloride	94	108	65 - 135	14	21		
Chlorobenzene	85	99	65 - 135	15	20		
Chloroform	87	101	65 - 135	15	20		
1,3-Dichlorobenzene	83	94	65 - 135	12	20		
1,1-Dichloroethane	88	98	65 - 135	12	21		
trans-1,2-Dichloroethene	84	95	65 - 135	11	24		
1,1-Dichloroethene	85	97	65 - 136	13	20		
1,2-Dichloropropane	86	98	64 - 135	14	20		
Ethylbenzene	84	98	65 - 135	15	20		
Methylene Chloride	97	119	54 - 141	20	26		
Tetrachloroethene	84	98	65 - 135	15	20		
Toluene	89	99	65 - 135	10	20		
1,1,1-Trichloroethane	92	101	65 - 135	9	20		
Trichloroethene	87	94	65 - 135	8	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	91		94	70 - 127			
Toluene-d8 (Surr)	98		102	80 - 125			
4-Bromofluorobenzene (Surr)	98		102	78 - 120			
Dibromofluoromethane (Surr)	88		89	77 - 120			

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407503

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-106956-B-10 MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1225
Prep Date: 03/12/2018 1225
Leach Date: N/A

MSD Lab Sample ID: 280-106956-B-10 MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1246
Prep Date: 03/12/2018 1246
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	0.16	U	5.00	5.00	4.78	5.53
Bromodichloromethane	0.17	U	5.00	5.00	4.62	5.06
Carbon tetrachloride	0.19	U	5.00	5.00	4.68	5.38
Chlorobenzene	0.17	U	5.00	5.00	4.24	4.94
Chloroform	0.16	U	5.00	5.00	4.37	5.06
1,3-Dichlorobenzene	0.13	U	5.00	5.00	4.14	4.69
1,1-Dichloroethane	0.22	U	5.00	5.00	4.39	4.92
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	4.22	4.73
1,1-Dichloroethene	0.23	U	5.00	5.00	4.26	4.87
1,2-Dichloropropane	0.18	U	5.00	5.00	4.28	4.92
Ethylbenzene	0.16	U	5.00	5.00	4.22	4.92
Methylene Chloride	0.32	U	5.00	5.00	4.85	5.93
Tetrachloroethene	0.20	U	5.00	5.00	4.22	4.89
Toluene	0.17	U	5.00	5.00	4.47	4.93
1,1,1-Trichloroethane	0.16	U	5.00	5.00	4.59	5.03
Trichloroethene	0.16	U	5.00	5.00	4.33	4.69

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407514

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 280-407514/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1112
Prep Date: 03/12/2018 1112
Leach Date: N/A

Analysis Batch: 280-407514
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_Q
Lab File ID: Q1929.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.239	J	0.22	1.0

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407514

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 280-407514/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1112
Prep Date: 03/12/2018 1112
Leach Date: N/A

Analysis Batch: 280-407514
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_Q
Lab File ID: Q1929.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	70 - 127
Toluene-d8 (Surr)	101	80 - 125
4-Bromofluorobenzene (Surr)	116	78 - 120
Dibromofluoromethane (Surr)	98	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-407514

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 280-407514/4	Analysis Batch: 280-407514	Instrument ID: VMS_Q
Client Matrix: Water	Prep Batch: N/A	Lab File ID: Q1928.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/12/2018 1051	Units: ug/L	Final Weight/Volume: 20 mL
Prep Date: 03/12/2018 1051		20 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 280-407514/5	Analysis Batch: 280-407514	Instrument ID: VMS_Q
Client Matrix: Water	Prep Batch: N/A	Lab File ID: Q1930.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/12/2018 1132	Units: ug/L	Final Weight/Volume: 20 mL
Prep Date: 03/12/2018 1132		20 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	108	103	65 - 135	5	20		
Bromodichloromethane	107	103	65 - 135	5	20		
Carbon tetrachloride	103	105	65 - 135	2	21		
Chlorobenzene	103	97	65 - 135	7	20		
Chloroform	107	101	65 - 135	5	20		
1,3-Dichlorobenzene	103	97	65 - 135	7	20		
1,1-Dichloroethane	103	100	65 - 135	2	21		
trans-1,2-Dichloroethene	103	107	65 - 135	4	24		
1,1-Dichloroethene	96	102	65 - 136	6	20		
1,2-Dichloropropane	106	104	64 - 135	2	20		
Ethylbenzene	108	102	65 - 135	6	20		
Methylene Chloride	79	89	54 - 141	11	26		
Tetrachloroethene	107	95	65 - 135	12	20		
Toluene	106	110	65 - 135	3	20		
1,1,1-Trichloroethane	105	107	65 - 135	1	20		
Trichloroethene	106	101	65 - 135	5	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	96	70 - 127
Toluene-d8 (Surr)	114	99	80 - 125
4-Bromofluorobenzene (Surr)	109	113	78 - 120
Dibromofluoromethane (Surr)	98	94	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-407514

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 280-407514/4 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1051
Prep Date: 03/12/2018 1051
Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-407514/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1132
Prep Date: 03/12/2018 1132
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	5.00	5.00	5.41	5.13
Bromodichloromethane	5.00	5.00	5.37	5.13
Carbon tetrachloride	5.00	5.00	5.14	5.27
Chlorobenzene	5.00	5.00	5.16	4.83
Chloroform	5.00	5.00	5.34	5.06
1,3-Dichlorobenzene	5.00	5.00	5.17	4.83
1,1-Dichloroethane	5.00	5.00	5.14	5.02
trans-1,2-Dichloroethene	5.00	5.00	5.14	5.33
1,1-Dichloroethene	5.00	5.00	4.79	5.09
1,2-Dichloropropane	5.00	5.00	5.30	5.19
Ethylbenzene	5.00	5.00	5.42	5.08
Methylene Chloride	5.00	5.00	3.95	4.43
Tetrachloroethene	5.00	5.00	5.34	4.75
Toluene	5.00	5.00	5.32	5.48
1,1,1-Trichloroethane	5.00	5.00	5.26	5.33
Trichloroethene	5.00	5.00	5.32	5.05

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407514

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-107062-A-4 MS	Analysis Batch: 280-407514	Instrument ID: VMS_Q
Client Matrix: Water	Prep Batch: N/A	Lab File ID: Q1946.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/12/2018 1702		Final Weight/Volume: 20 mL
Prep Date: 03/12/2018 1702		
Leach Date: N/A		

MSD Lab Sample ID: 280-107062-A-4 MSD	Analysis Batch: 280-407514	Instrument ID: VMS_Q
Client Matrix: Water	Prep Batch: N/A	Lab File ID: Q1947.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/12/2018 1723		Final Weight/Volume: 20 mL
Prep Date: 03/12/2018 1723		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	96	102	65 - 135	5	20		
Bromodichloromethane	93	95	65 - 135	2	20		
Carbon tetrachloride	91	99	65 - 135	8	21		
Chlorobenzene	80	89	65 - 135	11	20		
Chloroform	96	98	65 - 135	2	20		
1,3-Dichlorobenzene	70	83	65 - 135	17	20		
1,1-Dichloroethane	98	102	65 - 135	4	21		
trans-1,2-Dichloroethene	98	101	65 - 135	4	24		
1,1-Dichloroethene	97	101	65 - 136	4	20		
1,2-Dichloropropane	100	99	64 - 135	1	20		
Ethylbenzene	67	90	65 - 135	30	20		*
Methylene Chloride	90	85	54 - 141	6	26		
Tetrachloroethene	64	91	65 - 135	35	20	N	*
Toluene	82	94	65 - 135	13	20		
1,1,1-Trichloroethane	95	102	65 - 135	7	20		
Trichloroethene	106	117	65 - 135	9	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	96	70 - 127
Toluene-d8 (Surr)	108	106	80 - 125
4-Bromofluorobenzene (Surr)	97	93	78 - 120
Dibromofluoromethane (Surr)	92	93	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407514

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-107062-A-4 MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1702
Prep Date: 03/12/2018 1702
Leach Date: N/A

MSD Lab Sample ID: 280-107062-A-4 MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 1723
Prep Date: 03/12/2018 1723
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Benzene	0.16	U	5.00	5.00	4.82	5.08	
Bromodichloromethane	0.17	U	5.00	5.00	4.65	4.73	
Carbon tetrachloride	0.19	U	5.00	5.00	4.54	4.93	
Chlorobenzene	0.17	U	5.00	5.00	4.00	4.46	
Chloroform	0.16	U	5.00	5.00	4.82	4.90	
1,3-Dichlorobenzene	0.13	U	5.00	5.00	3.48	4.15	
1,1-Dichloroethane	0.22	U	5.00	5.00	4.90	5.08	
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	4.88	5.06	
1,1-Dichloroethene	0.23	U	5.00	5.00	4.86	5.07	
1,2-Dichloropropane	0.18	U	5.00	5.00	4.99	4.94	
Ethylbenzene	0.16	U	5.00	5.00	3.33	4.52	*
Methylene Chloride	0.32	U	5.00	5.00	4.50	4.25	
Tetrachloroethene	0.20	U	5.00	5.00	3.21	4.56	*
Toluene	0.17	U	5.00	5.00	4.10	4.69	
1,1,1-Trichloroethane	0.16	U	5.00	5.00	4.76	5.11	
Trichloroethene	0.70	J	5.00	5.00	6.02	6.57	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407518

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-407518/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 0911
Prep Date: 03/12/2018 0911
Leach Date: N/A

Analysis Batch: 280-407518
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_MS1
Lab File ID: MS1_9754.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407518

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 280-407518/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/12/2018 0911
Prep Date: 03/12/2018 0911
Leach Date: N/A

Analysis Batch: 280-407518
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_MS1
Lab File ID: MS1_9754.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	70 - 127
Toluene-d8 (Surr)	109	80 - 125
4-Bromofluorobenzene (Surr)	107	78 - 120
Dibromofluoromethane (Surr)	103	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Control Sample - Batch: 280-407518

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-407518/4	Analysis Batch:	280-407518	Instrument ID:	VMS_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS1_9753.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/12/2018 0851	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/12/2018 0851				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	5.00	4.79	96	65 - 135	
Bromodichloromethane	5.00	4.80	96	65 - 135	
Carbon tetrachloride	5.00	4.45	89	65 - 135	
Chlorobenzene	5.00	4.59	92	65 - 135	
Chloroform	5.00	4.59	92	65 - 135	
1,3-Dichlorobenzene	5.00	4.45	89	65 - 135	
1,1-Dichloroethane	5.00	4.96	99	65 - 135	
trans-1,2-Dichloroethene	5.00	4.58	92	65 - 135	
1,1-Dichloroethene	5.00	4.29	86	65 - 136	
1,2-Dichloropropane	5.00	4.82	96	64 - 135	
Ethylbenzene	5.00	4.69	94	65 - 135	
Methylene Chloride	5.00	4.31	86	54 - 141	
Tetrachloroethene	5.00	4.32	86	65 - 135	
Toluene	5.00	4.82	96	65 - 135	
1,1,1-Trichloroethane	5.00	4.49	90	65 - 135	
Trichloroethene	5.00	4.36	87	65 - 135	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	83		70 - 127		
Toluene-d8 (Surr)	100		80 - 125		
4-Bromofluorobenzene (Surr)	95		78 - 120		
Dibromofluoromethane (Surr)	94		77 - 120		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407518

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-107174-1
Client Matrix: Water
Dilution: 2.0
Analysis Date: 03/12/2018 1145
Prep Date: 03/12/2018 1145
Leach Date: N/A

Analysis Batch: 280-407518
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_MS1
Lab File ID: MS1_9760.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

MSD Lab Sample ID: 280-107174-1
Client Matrix: Water
Dilution: 2.0
Analysis Date: 03/12/2018 1206
Prep Date: 03/12/2018 1206
Leach Date: N/A

Analysis Batch: 280-407518
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_MS1
Lab File ID: MS1_9761.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	110	104	65 - 135	5	20		
Bromodichloromethane	107	104	65 - 135	3	20		
Carbon tetrachloride	108	103	65 - 135	4	21		
Chlorobenzene	103	98	65 - 135	5	20		
Chloroform	104	99	65 - 135	5	20		
1,3-Dichlorobenzene	100	95	65 - 135	5	20		
1,1-Dichloroethane	114	110	65 - 135	4	21		
trans-1,2-Dichloroethene	109	103	65 - 135	5	24		
1,1-Dichloroethene	107	100	65 - 136	4	20		
1,2-Dichloropropane	109	106	64 - 135	3	20		
Ethylbenzene	106	101	65 - 135	5	20		
Methylene Chloride	112	107	54 - 141	4	26		
Tetrachloroethene	102	95	65 - 135	7	20		
Toluene	111	105	65 - 135	5	20		
1,1,1-Trichloroethane	105	102	65 - 135	3	20		
Trichloroethene	99	95	65 - 135	4	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	95		86	70 - 127			
Toluene-d8 (Surr)	107		95	80 - 125			
4-Bromofluorobenzene (Surr)	104		92	78 - 120			
Dibromofluoromethane (Surr)	104		93	77 - 120			

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407518

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-107174-1 Units: ug/L
Client Matrix: Water
Dilution: 2.0
Analysis Date: 03/12/2018 1145
Prep Date: 03/12/2018 1145
Leach Date: N/A

MSD Lab Sample ID: 280-107174-1
Client Matrix: Water
Dilution: 2.0
Analysis Date: 03/12/2018 1206
Prep Date: 03/12/2018 1206
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	0.79	J	10.0	10.0	11.7	11.2
Bromodichloromethane	0.34	U	10.0	10.0	10.7	10.4
Carbon tetrachloride	0.38	U	10.0	10.0	10.8	10.3
Chlorobenzene	0.34	U	10.0	10.0	10.3	9.75
Chloroform	0.32	U	10.0	10.0	10.4	9.92
1,3-Dichlorobenzene	0.26	U	10.0	10.0	9.98	9.52
1,1-Dichloroethane	0.44	U	10.0	10.0	11.4	11.0
trans-1,2-Dichloroethene	1.8	J	10.0	10.0	12.6	12.0
1,1-Dichloroethene	4.8		10.0	10.0	15.5	14.8
1,2-Dichloropropane	0.36	U	10.0	10.0	10.9	10.6
Ethylbenzene	0.32	U	10.0	10.0	10.6	10.1
Methylene Chloride	0.64	U	10.0	10.0	11.2	10.7
Tetrachloroethene	0.40	U	10.0	10.0	10.2	9.54
Toluene	0.34	U	10.0	10.0	11.1	10.5
1,1,1-Trichloroethane	0.32	U	10.0	10.0	10.5	10.2
Trichloroethene	0.32	U	10.0	10.0	9.88	9.54

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407637

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-407637/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 1446
Prep Date: 03/13/2018 1446
Leach Date: N/A

Analysis Batch: 280-407637
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_MS9
Lab File ID: MS9_7256.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407637

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 280-407637/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 1446
Prep Date: 03/13/2018 1446
Leach Date: N/A

Analysis Batch: 280-407637
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_MS9
Lab File ID: MS9_7256.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	70 - 127
Toluene-d8 (Surr)	103	80 - 125
4-Bromofluorobenzene (Surr)	105	78 - 120
Dibromofluoromethane (Surr)	97	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Control Sample - Batch: 280-407637

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-407637/4	Analysis Batch:	280-407637	Instrument ID:	VMS_MS9
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	MS9_7237.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0801	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0801				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	5.00	5.99	120	65 - 135	
Bromodichloromethane	5.00	5.39	108	65 - 135	
Carbon tetrachloride	5.00	5.72	114	65 - 135	
Chlorobenzene	5.00	5.32	106	65 - 135	
Chloroform	5.00	5.24	105	65 - 135	
1,3-Dichlorobenzene	5.00	5.17	103	65 - 135	
1,1-Dichloroethane	5.00	5.26	105	65 - 135	
trans-1,2-Dichloroethene	5.00	5.22	104	65 - 135	
1,1-Dichloroethene	5.00	5.31	106	65 - 136	
1,2-Dichloropropane	5.00	5.20	104	64 - 135	
Ethylbenzene	5.00	5.28	106	65 - 135	
Methylene Chloride	5.00	5.31	106	54 - 141	
Tetrachloroethene	5.00	5.37	107	65 - 135	
Toluene	5.00	5.44	109	65 - 135	
1,1,1-Trichloroethane	5.00	5.43	109	65 - 135	
Trichloroethene	5.00	5.34	107	65 - 135	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	87		70 - 127		
Toluene-d8 (Surr)	101		80 - 125		
4-Bromofluorobenzene (Surr)	102		78 - 120		
Dibromofluoromethane (Surr)	87		77 - 120		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407637

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-107123-B-8 MS	Analysis Batch: 280-407637	Instrument ID: VMS_MS9
Client Matrix: Water	Prep Batch: N/A	Lab File ID: MS9_7244.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/13/2018 1035		Final Weight/Volume: 20 mL
Prep Date: 03/13/2018 1035		5 mL
Leach Date: N/A		

MSD Lab Sample ID: 280-107123-B-8 MSD	Analysis Batch: 280-407637	Instrument ID: VMS_MS9
Client Matrix: Water	Prep Batch: N/A	Lab File ID: MS9_7245.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/13/2018 1056		Final Weight/Volume: 20 mL
Prep Date: 03/13/2018 1056		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	106	113	65 - 135	5	20		
Bromodichloromethane	98	109	65 - 135	11	20		
Carbon tetrachloride	114	114	65 - 135	0	21		
Chlorobenzene	104	105	65 - 135	1	20		
Chloroform	101	107	65 - 135	7	20		
1,3-Dichlorobenzene	100	102	65 - 135	2	20		
1,1-Dichloroethane	100	102	65 - 135	3	21		
trans-1,2-Dichloroethene	96	104	65 - 135	8	24		
1,1-Dichloroethene	102	105	65 - 136	3	20		
1,2-Dichloropropane	99	103	64 - 135	4	20		
Ethylbenzene	105	107	65 - 135	2	20		
Methylene Chloride	98	106	54 - 141	8	26		
Tetrachloroethene	105	108	65 - 135	3	20		
Toluene	104	108	65 - 135	3	20		
1,1,1-Trichloroethane	106	108	65 - 135	2	20		
Trichloroethene	101	104	65 - 135	3	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	94		95	70 - 127			
Toluene-d8 (Surr)	97		101	80 - 125			
4-Bromofluorobenzene (Surr)	101		100	78 - 120			
Dibromofluoromethane (Surr)	85		89	77 - 120			

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407637

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-107123-B-8 MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 1035
Prep Date: 03/13/2018 1035
Leach Date: N/A

MSD Lab Sample ID: 280-107123-B-8 MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 1056
Prep Date: 03/13/2018 1056
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	1.1		5.00	5.00	6.35	6.69
Bromodichloromethane	0.17	U	5.00	5.00	4.89	5.46
Carbon tetrachloride	0.19	U	5.00	5.00	5.71	5.69
Chlorobenzene	0.17	U	5.00	5.00	5.19	5.24
Chloroform	0.16	U	5.00	5.00	5.03	5.37
1,3-Dichlorobenzene	0.13	U	5.00	5.00	4.98	5.09
1,1-Dichloroethane	0.22	U	5.00	5.00	4.98	5.12
trans-1,2-Dichloroethene	0.18	J	5.00	5.00	4.99	5.39
1,1-Dichloroethene	0.23	U	5.00	5.00	5.09	5.23
1,2-Dichloropropane	0.18	U	5.00	5.00	4.93	5.13
Ethylbenzene	0.16	U	5.00	5.00	5.23	5.34
Methylene Chloride	0.32	U	5.00	5.00	4.88	5.29
Tetrachloroethene	0.20	U	5.00	5.00	5.25	5.41
Toluene	0.17	U	5.00	5.00	5.22	5.40
1,1,1-Trichloroethane	0.16	U	5.00	5.00	5.28	5.41
Trichloroethene	0.16	U	5.00	5.00	5.04	5.19

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407638

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-407638/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 0737
Prep Date: 03/13/2018 0737
Leach Date: N/A

Analysis Batch: 280-407638
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_R1
Lab File ID: R7224.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407638

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-407638/6	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R7224.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0737	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0737				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	70 - 127
Toluene-d8 (Surr)	102	80 - 125
4-Bromofluorobenzene (Surr)	93	78 - 120
Dibromofluoromethane (Surr)	107	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Control Sample - Batch: 280-407638

Method: 8260B

Preparation: 5030B

Lab Sample ID:	LCS 280-407638/4	Analysis Batch:	280-407638	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R7223.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 0718	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 0718				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	5.00	4.71	94	65 - 135	
Bromodichloromethane	5.00	4.51	90	65 - 135	
Carbon tetrachloride	5.00	4.94	99	65 - 135	
Chlorobenzene	5.00	4.40	88	65 - 135	
Chloroform	5.00	4.68	94	65 - 135	
1,3-Dichlorobenzene	5.00	4.36	87	65 - 135	
1,1-Dichloroethane	5.00	4.65	93	65 - 135	
trans-1,2-Dichloroethene	5.00	4.83	97	65 - 135	
1,1-Dichloroethene	5.00	4.64	93	65 - 136	
1,2-Dichloropropane	5.00	4.50	90	64 - 135	
Ethylbenzene	5.00	4.49	90	65 - 135	
Methylene Chloride	5.00	4.76	95	54 - 141	
Tetrachloroethene	5.00	4.69	94	65 - 135	
Toluene	5.00	4.67	93	65 - 135	
1,1,1-Trichloroethane	5.00	4.96	99	65 - 135	
Trichloroethene	5.00	4.64	93	65 - 135	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	99		70 - 127		
Toluene-d8 (Surr)	98		80 - 125		
4-Bromofluorobenzene (Surr)	88		78 - 120		
Dibromofluoromethane (Surr)	104		77 - 120		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407638

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 580-75480-E-8 MS	Analysis Batch: 280-407638	Instrument ID: VMS_R1
Client Matrix: Water	Prep Batch: N/A	Lab File ID: R7234.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/13/2018 1115		Final Weight/Volume: 20 mL
Prep Date: 03/13/2018 1115		20 mL
Leach Date: N/A		

MSD Lab Sample ID: 580-75480-D-8 MSD	Analysis Batch: 280-407638	Instrument ID: VMS_R1
Client Matrix: Water	Prep Batch: N/A	Lab File ID: R7235.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/13/2018 1134		Final Weight/Volume: 20 mL
Prep Date: 03/13/2018 1134		20 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	97	101	65 - 135	4	20		
Bromodichloromethane	92	96	65 - 135	5	20		
Carbon tetrachloride	102	105	65 - 135	3	21		
Chlorobenzene	92	96	65 - 135	4	20		
Chloroform	94	99	65 - 135	5	20		
1,3-Dichlorobenzene	90	95	65 - 135	5	20		
1,1-Dichloroethane	95	98	65 - 135	4	21		
trans-1,2-Dichloroethene	101	105	65 - 135	4	24		
1,1-Dichloroethene	97	100	65 - 136	3	20		
1,2-Dichloropropane	92	96	64 - 135	5	20		
Ethylbenzene	93	97	65 - 135	4	20		
Methylene Chloride	93	98	54 - 141	5	26		
Tetrachloroethene	96	100	65 - 135	4	20		
Toluene	97	100	65 - 135	4	20		
1,1,1-Trichloroethane	101	102	65 - 135	2	20		
Trichloroethene	95	98	65 - 135	4	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	90		95	70 - 127			
Toluene-d8 (Surr)	95		100	80 - 125			
4-Bromofluorobenzene (Surr)	86		89	78 - 120			
Dibromofluoromethane (Surr)	101		104	77 - 120			

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407638

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 580-75480-E-8 MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 1115
Prep Date: 03/13/2018 1115
Leach Date: N/A

MSD Lab Sample ID: 580-75480-D-8 MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 1134
Prep Date: 03/13/2018 1134
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	0.16	U	5.00	5.00	4.84	5.04
Bromodichloromethane	0.17	U	5.00	5.00	4.59	4.81
Carbon tetrachloride	0.19	U	5.00	5.00	5.09	5.25
Chlorobenzene	0.17	U	5.00	5.00	4.58	4.78
Chloroform	0.16	U	5.00	5.00	4.71	4.95
1,3-Dichlorobenzene	0.13	U	5.00	5.00	4.52	4.74
1,1-Dichloroethane	0.22	U	5.00	5.00	4.74	4.92
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	5.04	5.23
1,1-Dichloroethene	0.23	U	5.00	5.00	4.85	4.98
1,2-Dichloropropane	0.18	U	5.00	5.00	4.59	4.82
Ethylbenzene	0.16	U	5.00	5.00	4.67	4.86
Methylene Chloride	0.32	U	5.00	5.00	4.67	4.90
Tetrachloroethene	0.20	U	5.00	5.00	4.82	5.01
Toluene	0.17	U	5.00	5.00	4.83	5.02
1,1,1-Trichloroethane	0.16	U	5.00	5.00	5.03	5.12
Trichloroethene	0.16	U	5.00	5.00	4.73	4.92

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407810

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 280-407810/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/14/2018 0928
Prep Date: 03/14/2018 0928
Leach Date: N/A

Analysis Batch: 280-407810
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_R1
Lab File ID: R7297.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407810

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-407810/6	Analysis Batch:	280-407810	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R7297.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0928	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0928				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	70 - 127
Toluene-d8 (Surr)	93	80 - 125
4-Bromofluorobenzene (Surr)	84	78 - 120
Dibromofluoromethane (Surr)	97	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Lab Control Sample - Batch: 280-407810

Method: 8260B

Preparation: 5030B

Lab Sample ID:	LCS 280-407810/4	Analysis Batch:	280-407810	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R7296.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0909	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0909				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	5.00	4.39	88	65 - 135	
Bromodichloromethane	5.00	4.36	87	65 - 135	
Carbon tetrachloride	5.00	4.84	97	65 - 135	
Chlorobenzene	5.00	4.39	88	65 - 135	
Chloroform	5.00	4.52	90	65 - 135	
1,3-Dichlorobenzene	5.00	4.37	87	65 - 135	
1,1-Dichloroethane	5.00	4.41	88	65 - 135	
trans-1,2-Dichloroethene	5.00	4.55	91	65 - 135	
1,1-Dichloroethene	5.00	4.31	86	65 - 136	
1,2-Dichloropropane	5.00	4.19	84	64 - 135	
Ethylbenzene	5.00	4.36	87	65 - 135	
Methylene Chloride	5.00	4.44	89	54 - 141	
Tetrachloroethene	5.00	4.56	91	65 - 135	
Toluene	5.00	4.42	88	65 - 135	
1,1,1-Trichloroethane	5.00	4.77	95	65 - 135	
Trichloroethene	5.00	4.29	86	65 - 135	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	97		70 - 127		
Toluene-d8 (Surr)	97		80 - 125		
4-Bromofluorobenzene (Surr)	85		78 - 120		
Dibromofluoromethane (Surr)	100		77 - 120		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-407810**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 280-107165-D-4 MS	Analysis Batch: 280-407810	Instrument ID: VMS_R1
Client Matrix: Water	Prep Batch: N/A	Lab File ID: R7305.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/14/2018 1202		Final Weight/Volume: 20 mL
Prep Date: 03/14/2018 1202		
Leach Date: N/A		

MSD Lab Sample ID: 280-107165-D-4 MSD	Analysis Batch: 280-407810	Instrument ID: VMS_R1
Client Matrix: Water	Prep Batch: N/A	Lab File ID: R7306.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/14/2018 1221		Final Weight/Volume: 20 mL
Prep Date: 03/14/2018 1221		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	96	101	65 - 135	6	20		
Bromodichloromethane	100	105	65 - 135	5	20		
Carbon tetrachloride	114	117	65 - 135	2	21		
Chlorobenzene	96	101	65 - 135	5	20		
Chloroform	102	106	65 - 135	3	20		
1,3-Dichlorobenzene	96	102	65 - 135	6	20		
1,1-Dichloroethane	97	101	65 - 135	4	21		
trans-1,2-Dichloroethene	100	104	65 - 135	4	24		
1,1-Dichloroethene	95	100	65 - 136	5	20		
1,2-Dichloropropane	93	97	64 - 135	4	20		
Ethylbenzene	96	102	65 - 135	6	20		
Methylene Chloride	93	100	54 - 141	6	26		
Tetrachloroethene	102	106	65 - 135	4	20		
Toluene	98	102	65 - 135	4	20		
1,1,1-Trichloroethane	110	114	65 - 135	4	20		
Trichloroethene	94	98	65 - 135	5	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	102	70 - 127
Toluene-d8 (Surr)	95	97	80 - 125
4-Bromofluorobenzene (Surr)	84	84	78 - 120
Dibromofluoromethane (Surr)	102	103	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407810

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-107165-D-4 MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/14/2018 1202
Prep Date: 03/14/2018 1202
Leach Date: N/A

MSD Lab Sample ID: 280-107165-D-4 MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/14/2018 1221
Prep Date: 03/14/2018 1221
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	0.16	U	5.00	5.00	4.78	5.06
Bromodichloromethane	0.17	U	5.00	5.00	4.99	5.27
Carbon tetrachloride	0.19	U	5.00	5.00	5.70	5.84
Chlorobenzene	0.17	U	5.00	5.00	4.80	5.06
Chloroform	0.16	U	5.00	5.00	5.12	5.28
1,3-Dichlorobenzene	0.13	U	5.00	5.00	4.80	5.10
1,1-Dichloroethane	0.22	U	5.00	5.00	4.85	5.06
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	5.01	5.21
1,1-Dichloroethene	0.23	U	5.00	5.00	4.76	5.01
1,2-Dichloropropane	0.18	U	5.00	5.00	4.67	4.86
Ethylbenzene	0.16	U	5.00	5.00	4.81	5.09
Methylene Chloride	0.32	U	5.00	5.00	4.67	4.98
Tetrachloroethene	0.20	U	5.00	5.00	5.09	5.32
Toluene	0.17	U	5.00	5.00	4.91	5.09
1,1,1-Trichloroethane	0.16	U	5.00	5.00	5.48	5.69
Trichloroethene	0.16	U	5.00	5.00	4.69	4.91

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407744

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-407744/5	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6962.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1452	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1452				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	94		70 - 127	

Lab Control Sample - Batch: 280-407744

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 280-407744/3	Analysis Batch:	280-407744	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6961.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 1434	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 1434				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,4-Dioxane	5.00	5.99	120	25 - 141	
Surrogate	% Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	94			70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407744

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107174-3	Analysis Batch: 280-407744	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E6967.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/13/2018 1622		Final Weight/Volume: 20 mL
Prep Date: 03/13/2018 1622		
Leach Date: N/A		

MSD Lab Sample ID: 280-107174-3	Analysis Batch: 280-407744	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E6968.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/13/2018 1640		Final Weight/Volume: 20 mL
Prep Date: 03/13/2018 1640		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	96	102	25 - 141	4	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	97		115	70 - 127			

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407744

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107174-3	Units: ug/L	MSD Lab Sample ID: 280-107174-3
Client Matrix: Water		Client Matrix: Water
Dilution: 1.0		Dilution: 1.0
Analysis Date: 03/13/2018 1622		Analysis Date: 03/13/2018 1640
Prep Date: 03/13/2018 1622		Prep Date: 03/13/2018 1640
Leach Date: N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	3.1	5.00	5.00	7.91	8.23

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407802

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-407802/5	Analysis Batch:	280-407802	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6999.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0829	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0829				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	109		70 - 127	

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-407802

Method: 8260B SIM
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-407802/3	Analysis Batch:	280-407802	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6997.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0753	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0753				20 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-407802/4	Analysis Batch:	280-407802	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E6998.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0811	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0811				20 mL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,4-Dioxane	114	101	25 - 141	12	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	104		100		70 - 127		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-407802

Method: 8260B SIM
Preparation: 5030B

LCS Lab Sample ID: LCS 280-407802/3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/14/2018 0753
Prep Date: 03/14/2018 0753
Leach Date: N/A

Units: ug/L

LCSD Lab Sample ID: LCSD 280-407802/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/14/2018 0811
Prep Date: 03/14/2018 0811
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,4-Dioxane	5.00	5.00	5.70	5.03

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407802

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107174-51
Client Matrix: Water
Dilution: 10
Analysis Date: 03/14/2018 1333
Prep Date: 03/14/2018 1333
Leach Date: N/A

Analysis Batch: 280-407802
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_E
Lab File ID: E7016.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
20 mL

MSD Lab Sample ID: 280-107174-51
Client Matrix: Water
Dilution: 10
Analysis Date: 03/14/2018 1351
Prep Date: 03/14/2018 1351
Leach Date: N/A

Analysis Batch: 280-407802
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_E
Lab File ID: E7017.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	70	106	25 - 141	16	20		
Surrogate		MS % Rec	MSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)		102	118		70 - 127		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-407802**

**Method: 8260B SIM
Preparation: 5030B**

MS Lab Sample ID: 280-107174-51 Units: ug/L
Client Matrix: Water
Dilution: 10
Analysis Date: 03/14/2018 1333
Prep Date: 03/14/2018 1333
Leach Date: N/A

MSD Lab Sample ID: 280-107174-51
Client Matrix: Water
Dilution: 10
Analysis Date: 03/14/2018 1351
Prep Date: 03/14/2018 1351
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	71	50.0	50.0	106	124

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407880

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-407880/5	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E7025.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1606	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1606				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	119		70 - 127	

Lab Control Sample - Batch: 280-407880

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 280-407880/3	Analysis Batch:	280-407880	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E7021.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1454	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1454				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,4-Dioxane	5.00	6.06	121	25 - 141	
Surrogate	% Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	112			70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407880

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107174-2	Analysis Batch: 280-407880	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E7027.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/14/2018 1642		Final Weight/Volume: 20 mL
Prep Date: 03/14/2018 1642		
Leach Date: N/A		

MSD Lab Sample ID: 280-107174-2	Analysis Batch: 280-407880	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E7028.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/14/2018 1700		Final Weight/Volume: 20 mL
Prep Date: 03/14/2018 1700		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	73	63	25 - 141	7	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	118		126	70 - 127			

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407880

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107174-2	Units: ug/L	MSD Lab Sample ID: 280-107174-2
Client Matrix: Water		Client Matrix: Water
Dilution: 1.0		Dilution: 1.0
Analysis Date: 03/14/2018 1642		Analysis Date: 03/14/2018 1700
Prep Date: 03/14/2018 1642		Prep Date: 03/14/2018 1700
Leach Date: N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	3.5	5.00	5.00	7.13	6.65

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407943

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-407943/5	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E7055.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 0858	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 0858				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	93		70 - 127	

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-407943

Method: 8260B SIM
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-407943/3	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E7052.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 0821	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 0821				20 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-407943/4	Analysis Batch:	280-407943	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E7053.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/15/2018 0839	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/15/2018 0839				20 mL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,4-Dioxane	119	102	25 - 141	16	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	91		100		70 - 127		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-407943

Method: 8260B SIM
Preparation: 5030B

LCS Lab Sample ID: LCS 280-407943/3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/15/2018 0821
Prep Date: 03/15/2018 0821
Leach Date: N/A

Units: ug/L

LCSD Lab Sample ID: LCSD 280-407943/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/15/2018 0839
Prep Date: 03/15/2018 0839
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,4-Dioxane	5.00	5.00	5.97	5.10

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407943

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107174-10
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/15/2018 1046
Prep Date: 03/15/2018 1046
Leach Date: N/A

Analysis Batch: 280-407943
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_E
Lab File ID: E7061.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
20 mL

MSD Lab Sample ID: 280-107174-10
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/15/2018 1104
Prep Date: 03/15/2018 1104
Leach Date: N/A

Analysis Batch: 280-407943
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_E
Lab File ID: E7062.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	82	103	25 - 141	23	20		*
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	108		105	70 - 127			

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-407943**

**Method: 8260B SIM
Preparation: 5030B**

MS Lab Sample ID: 280-107174-10 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/15/2018 1046
Prep Date: 03/15/2018 1046
Leach Date: N/A

MSD Lab Sample ID: 280-107174-10
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/15/2018 1104
Prep Date: 03/15/2018 1104
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	0.22	U	5.00	5.00	4.12	5.17 *

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-408141

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-408141/5	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E7054.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1224	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1224				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	117		70 - 127	

Lab Control Sample/

Method: 8260B SIM
Preparation: 5030B

Lab Control Sample Duplicate Recovery Report - Batch: 280-408141

LCS Lab Sample ID:	LCS 280-408141/3	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E7055.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1242	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1242				20 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-408141/4	Analysis Batch:	280-408141	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E7053.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/16/2018 1206	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/16/2018 1206				20 mL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,4-Dioxane	89	104	25 - 141	15	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	115		120		70 - 127		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-408141

Method: 8260B SIM
Preparation: 5030B

LCS Lab Sample ID: LCS 280-408141/3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/16/2018 1242
Prep Date: 03/16/2018 1242
Leach Date: N/A

Units: ug/L

LCSD Lab Sample ID: LCSD 280-408141/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/16/2018 1206
Prep Date: 03/16/2018 1206
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,4-Dioxane	5.00	5.00	4.47	5.20

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-408141

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107174-37
Client Matrix: Water
Dilution: 5.0
Analysis Date: 03/16/2018 1432
Prep Date: 03/16/2018 1432
Leach Date: N/A

Analysis Batch: 280-408141
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_E
Lab File ID: E7060.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
20 mL

MSD Lab Sample ID: 280-107174-37
Client Matrix: Water
Dilution: 5.0
Analysis Date: 03/16/2018 1450
Prep Date: 03/16/2018 1450
Leach Date: N/A

Analysis Batch: 280-408141
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_E
Lab File ID: E7061.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL
20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	101	162	25 - 141	19	20		N
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		117	113			70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-408141**

**Method: 8260B SIM
Preparation: 5030B**

MS Lab Sample ID: 280-107174-37 Units: ug/L
Client Matrix: Water
Dilution: 5.0
Analysis Date: 03/16/2018 1432
Prep Date: 03/16/2018 1432
Leach Date: N/A

MSD Lab Sample ID: 280-107174-37
Client Matrix: Water
Dilution: 5.0
Analysis Date: 03/16/2018 1450
Prep Date: 03/16/2018 1450
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	47	25.0	25.0	72.5	87.9 N

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-408256

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-408256/5	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E8010.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 0936	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 0936				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	104		70 - 127	

Lab Control Sample - Batch: 280-408256

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 280-408256/3	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E8009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 0918	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 0918				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,4-Dioxane	5.00	4.52	90	25 - 141	
Surrogate	% Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	110			70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-408256

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107263-C-4 MS	Analysis Batch: 280-408256	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E8018.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/18/2018 1218		Final Weight/Volume: 20 mL
Prep Date: 03/18/2018 1218		
Leach Date: N/A		

MSD Lab Sample ID: 280-107263-C-4 MSD	Analysis Batch: 280-408256	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E8019.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/18/2018 1236		Final Weight/Volume: 20 mL
Prep Date: 03/18/2018 1236		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	105	106	25 - 141	1	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	114		118	70 - 127			

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-408256

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107263-C-4 MS	Units: ug/L	MSD Lab Sample ID: 280-107263-C-4 MSD
Client Matrix: Water		Client Matrix: Water
Dilution: 1.0		Dilution: 1.0
Analysis Date: 03/18/2018 1218		Analysis Date: 03/18/2018 1236
Prep Date: 03/18/2018 1218		Prep Date: 03/18/2018 1236
Leach Date: N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	1.6	5.00	5.00	6.86	6.91

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1

Sdg Number: PIN12-01.1802002

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-407503					
LCS 280-407503/4	Lab Control Sample	T	Water	8260B	
LCSD 280-407503/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-407503/6	Method Blank	T	Water	8260B	
280-106956-B-10 MS	Matrix Spike	T	Water	8260B	
280-106956-B-10 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-107174-39	PIN12-01.1802002-061	T	Water	8260B	
280-107174-40	PIN12-01.1802002-062	T	Water	8260B	
280-107174-41	PIN12-01.1802002-063	T	Water	8260B	
280-107174-48	PIN12-01.1802002-079	T	Water	8260B	
280-107174-49	PIN12-01.1802002-080	T	Water	8260B	
280-107174-49DL	PIN12-01.1802002-080	T	Water	8260B	
280-107174-50	PIN12-01.1802002-081	T	Water	8260B	
280-107174-50DL	PIN12-01.1802002-081	T	Water	8260B	
280-107174-51	PIN12-01.1802002-082	T	Water	8260B	
280-107174-51DL	PIN12-01.1802002-082	T	Water	8260B	
280-107174-52	PIN12-01.1802002-083	T	Water	8260B	
280-107174-53	PIN12-01.1802002-084	T	Water	8260B	
280-107174-54	PIN12-01.1802002-085	T	Water	8260B	
280-107174-55	PIN12-01.1802002-086	T	Water	8260B	
280-107174-62	PIN12-01.1802002-097	T	Water	8260B	
280-107174-64	PIN12-01.1802002-099	T	Water	8260B	
Analysis Batch:280-407514					
LCS 280-407514/4	Lab Control Sample	T	Water	8260B	
LCSD 280-407514/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-407514/6	Method Blank	T	Water	8260B	
280-107062-A-4 MS	Matrix Spike	T	Water	8260B	
280-107062-A-4 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-107174-21	PIN12-01.1802002-024	T	Water	8260B	
280-107174-22	PIN12-01.1802002-025	T	Water	8260B	
280-107174-23	PIN12-01.1802002-026	T	Water	8260B	
280-107174-24	PIN12-01.1802002-027	T	Water	8260B	
280-107174-25	PIN12-01.1802002-028	T	Water	8260B	
280-107174-26	PIN12-01.1802002-029	T	Water	8260B	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-407518					
LCS 280-407518/4	Lab Control Sample	T	Water	8260B	
MB 280-407518/6	Method Blank	T	Water	8260B	
280-107174-1	PIN12-01.1802002.100	T	Water	8260B	
280-107174-1DL	PIN12-01.1802002.100	T	Water	8260B	
280-107174-1MS	Matrix Spike	T	Water	8260B	
280-107174-1MSD	Matrix Spike Duplicate	T	Water	8260B	
280-107174-2	PIN12-01.1802002.103	T	Water	8260B	
280-107174-2DL	PIN12-01.1802002.103	T	Water	8260B	
280-107174-3	PIN12-01.1802002.104	T	Water	8260B	
280-107174-4	PIN12-01.1802002.106	T	Water	8260B	
280-107174-5	PIN12-01.1802002.111	T	Water	8260B	
280-107174-6	PIN12-01.1802002-001	T	Water	8260B	
280-107174-6DL	PIN12-01.1802002-001	T	Water	8260B	
280-107174-7	PIN12-01.1802002-002	T	Water	8260B	
280-107174-8	PIN12-01.1802002-003	T	Water	8260B	
280-107174-9	PIN12-01.1802002-004	T	Water	8260B	
280-107174-10	PIN12-01.1802002-009	T	Water	8260B	
280-107174-11	PIN12-01.1802002-011	T	Water	8260B	
280-107174-12	PIN12-01.1802002-012	T	Water	8260B	
280-107174-13	PIN12-01.1802002-013	T	Water	8260B	
280-107174-14	PIN12-01.1802002-014	T	Water	8260B	
280-107174-15	PIN12-01.1802002-015	T	Water	8260B	
280-107174-16	PIN12-01.1802002-016	T	Water	8260B	
280-107174-17	PIN12-01.1802002-017	T	Water	8260B	
280-107174-18	PIN12-01.1802002-021	T	Water	8260B	
280-107174-19	PIN12-01.1802002-022	T	Water	8260B	
280-107174-20	PIN12-01.1802002-023	T	Water	8260B	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-407637					
LCS 280-407637/4	Lab Control Sample	T	Water	8260B	
MB 280-407637/6	Method Blank	T	Water	8260B	
280-107123-B-8 MS	Matrix Spike	T	Water	8260B	
280-107123-B-8 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-107174-27	PIN12-01.1802002-043	T	Water	8260B	
280-107174-28	PIN12-01.1802002-044	T	Water	8260B	
280-107174-29	PIN12-01.1802002-045	T	Water	8260B	
280-107174-30	PIN12-01.1802002-049	T	Water	8260B	
280-107174-31	PIN12-01.1802002-050	T	Water	8260B	
280-107174-32	PIN12-01.1802002-051	T	Water	8260B	
280-107174-33	PIN12-01.1802002-055	T	Water	8260B	
280-107174-34	PIN12-01.1802002-056	T	Water	8260B	
280-107174-34DL	PIN12-01.1802002-056	T	Water	8260B	
280-107174-35	PIN12-01.1802002-057	T	Water	8260B	
280-107174-36	PIN12-01.1802002-058	T	Water	8260B	
280-107174-37	PIN12-01.1802002-059	T	Water	8260B	
280-107174-38	PIN12-01.1802002-060	T	Water	8260B	
Analysis Batch:280-407638					
LCS 280-407638/4	Lab Control Sample	T	Water	8260B	
MB 280-407638/6	Method Blank	T	Water	8260B	
580-75480-E-8 MS	Matrix Spike	T	Water	8260B	
580-75480-D-8 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-107174-42	PIN12-01.1802002-064	T	Water	8260B	
280-107174-43	PIN12-01.1802002-065	T	Water	8260B	
280-107174-43DL	PIN12-01.1802002-065	T	Water	8260B	
280-107174-44	PIN12-01.1802002-066	T	Water	8260B	
280-107174-44DL	PIN12-01.1802002-066	T	Water	8260B	
280-107174-45	PIN12-01.1802002-067	T	Water	8260B	
280-107174-46	PIN12-01.1802002-068	T	Water	8260B	
280-107174-46DL	PIN12-01.1802002-068	T	Water	8260B	
280-107174-47	PIN12-01.1802002-069	T	Water	8260B	
280-107174-56	PIN12-01.1802002-088	T	Water	8260B	
280-107174-57	PIN12-01.1802002-089	T	Water	8260B	
280-107174-58	PIN12-01.1802002-090	T	Water	8260B	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-407744					
LCS 280-407744/3	Lab Control Sample	T	Water	8260B SIM	
MB 280-407744/5	Method Blank	T	Water	8260B SIM	
280-107174-3	PIN12-01.1802002.104	T	Water	8260B SIM	
280-107174-3MS	Matrix Spike	T	Water	8260B SIM	
280-107174-3MSD	Matrix Spike Duplicate	T	Water	8260B SIM	
280-107174-8	PIN12-01.1802002-003	T	Water	8260B SIM	
280-107174-24	PIN12-01.1802002-027	T	Water	8260B SIM	
280-107174-25	PIN12-01.1802002-028	T	Water	8260B SIM	
280-107174-26	PIN12-01.1802002-029	T	Water	8260B SIM	
280-107174-39	PIN12-01.1802002-061	T	Water	8260B SIM	
280-107174-40	PIN12-01.1802002-062	T	Water	8260B SIM	
280-107174-41	PIN12-01.1802002-063	T	Water	8260B SIM	
280-107174-52	PIN12-01.1802002-083	T	Water	8260B SIM	
280-107174-53	PIN12-01.1802002-084	T	Water	8260B SIM	
280-107174-54	PIN12-01.1802002-085	T	Water	8260B SIM	
280-107174-55	PIN12-01.1802002-086	T	Water	8260B SIM	
Analysis Batch:280-407802					
LCS 280-407802/3	Lab Control Sample	T	Water	8260B SIM	
LCSD 280-407802/4	Lab Control Sample Duplicate	T	Water	8260B SIM	
MB 280-407802/5	Method Blank	T	Water	8260B SIM	
280-107174-1	PIN12-01.1802002.100	T	Water	8260B SIM	
280-107174-9	PIN12-01.1802002-004	T	Water	8260B SIM	
280-107174-48	PIN12-01.1802002-079	T	Water	8260B SIM	
280-107174-49	PIN12-01.1802002-080	T	Water	8260B SIM	
280-107174-50	PIN12-01.1802002-081	T	Water	8260B SIM	
280-107174-51	PIN12-01.1802002-082	T	Water	8260B SIM	
280-107174-51MS	Matrix Spike	T	Water	8260B SIM	
280-107174-51MSD	Matrix Spike Duplicate	T	Water	8260B SIM	
Analysis Batch:280-407810					
LCS 280-407810/4	Lab Control Sample	T	Water	8260B	
MB 280-407810/6	Method Blank	T	Water	8260B	
280-107165-D-4 MS	Matrix Spike	T	Water	8260B	
280-107165-D-4 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-107174-59	PIN12-01.1802002-091	T	Water	8260B	
280-107174-60	PIN12-01.1802002-092	T	Water	8260B	
280-107174-61	PIN12-01.1802002-093	T	Water	8260B	
280-107174-63	PIN12-01.1802002-098	T	Water	8260B	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-407880					
LCS 280-407880/3	Lab Control Sample	T	Water	8260B SIM	
MB 280-407880/5	Method Blank	T	Water	8260B SIM	
280-107174-2	PIN12-01.1802002.103	T	Water	8260B SIM	
280-107174-2MS	Matrix Spike	T	Water	8260B SIM	
280-107174-2MSD	Matrix Spike Duplicate	T	Water	8260B SIM	
280-107174-6	PIN12-01.1802002-001	T	Water	8260B SIM	
280-107174-7	PIN12-01.1802002-002	T	Water	8260B SIM	
280-107174-15	PIN12-01.1802002-015	T	Water	8260B SIM	
280-107174-16	PIN12-01.1802002-016	T	Water	8260B SIM	
280-107174-17	PIN12-01.1802002-017	T	Water	8260B SIM	
280-107174-18	PIN12-01.1802002-021	T	Water	8260B SIM	
280-107174-19	PIN12-01.1802002-022	T	Water	8260B SIM	
280-107174-20	PIN12-01.1802002-023	T	Water	8260B SIM	
280-107174-21	PIN12-01.1802002-024	T	Water	8260B SIM	
280-107174-22	PIN12-01.1802002-025	T	Water	8260B SIM	
280-107174-23	PIN12-01.1802002-026	T	Water	8260B SIM	
280-107174-42	PIN12-01.1802002-064	T	Water	8260B SIM	
280-107174-43	PIN12-01.1802002-065	T	Water	8260B SIM	
280-107174-44	PIN12-01.1802002-066	T	Water	8260B SIM	
280-107174-45	PIN12-01.1802002-067	T	Water	8260B SIM	
280-107174-46	PIN12-01.1802002-068	T	Water	8260B SIM	
280-107174-47	PIN12-01.1802002-069	T	Water	8260B SIM	
280-107174-62	PIN12-01.1802002-097	T	Water	8260B SIM	
280-107174-64	PIN12-01.1802002-099	T	Water	8260B SIM	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-407943					
LCS 280-407943/3	Lab Control Sample	T	Water	8260B SIM	
LCSD 280-407943/4	Lab Control Sample Duplicate	T	Water	8260B SIM	
MB 280-407943/5	Method Blank	T	Water	8260B SIM	
280-107174-10	PIN12-01.1802002-009	T	Water	8260B SIM	
280-107174-10MS	Matrix Spike	T	Water	8260B SIM	
280-107174-10MSD	Matrix Spike Duplicate	T	Water	8260B SIM	
280-107174-11	PIN12-01.1802002-011	T	Water	8260B SIM	
280-107174-12	PIN12-01.1802002-012	T	Water	8260B SIM	
280-107174-13	PIN12-01.1802002-013	T	Water	8260B SIM	
280-107174-14	PIN12-01.1802002-014	T	Water	8260B SIM	
280-107174-27	PIN12-01.1802002-043	T	Water	8260B SIM	
280-107174-28	PIN12-01.1802002-044	T	Water	8260B SIM	
280-107174-29	PIN12-01.1802002-045	T	Water	8260B SIM	
280-107174-30	PIN12-01.1802002-049	T	Water	8260B SIM	
280-107174-31	PIN12-01.1802002-050	T	Water	8260B SIM	
280-107174-32	PIN12-01.1802002-051	T	Water	8260B SIM	
280-107174-34	PIN12-01.1802002-056	T	Water	8260B SIM	
280-107174-38	PIN12-01.1802002-060	T	Water	8260B SIM	
280-107174-57	PIN12-01.1802002-089	T	Water	8260B SIM	
280-107174-58	PIN12-01.1802002-090	T	Water	8260B SIM	
Analysis Batch:280-408141					
LCS 280-408141/3	Lab Control Sample	T	Water	8260B SIM	
LCSD 280-408141/4	Lab Control Sample Duplicate	T	Water	8260B SIM	
MB 280-408141/5	Method Blank	T	Water	8260B SIM	
280-107174-33	PIN12-01.1802002-055	T	Water	8260B SIM	
280-107174-34	PIN12-01.1802002-056	T	Water	8260B SIM	
280-107174-35	PIN12-01.1802002-057	T	Water	8260B SIM	
280-107174-36	PIN12-01.1802002-058	T	Water	8260B SIM	
280-107174-37	PIN12-01.1802002-059	T	Water	8260B SIM	
280-107174-37MS	Matrix Spike	T	Water	8260B SIM	
280-107174-37MSD	Matrix Spike Duplicate	T	Water	8260B SIM	
280-107174-59	PIN12-01.1802002-091	T	Water	8260B SIM	
280-107174-60	PIN12-01.1802002-092	T	Water	8260B SIM	
280-107174-61	PIN12-01.1802002-093	T	Water	8260B SIM	
280-107174-63	PIN12-01.1802002-098	T	Water	8260B SIM	
Analysis Batch:280-408256					
LCS 280-408256/3	Lab Control Sample	T	Water	8260B SIM	
MB 280-408256/5	Method Blank	T	Water	8260B SIM	
280-107174-56	PIN12-01.1802002-088	T	Water	8260B SIM	
280-107263-C-4 MS	Matrix Spike	T	Water	8260B SIM	
280-107263-C-4 MSD	Matrix Spike Duplicate	T	Water	8260B SIM	

TestAmerica Denver

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
Sdg Number: PIN12-01.1802002

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
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Report Basis

T = Total

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-1

Client ID: PIN12-01.1802002.100

Sample Date/Time: 03/03/2018 12:05 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-1		280-407518		03/12/2018 11:05	2	TAL DEN	TAW
A:8260B	280-107174-C-1		280-407518		03/12/2018 11:05	2	TAL DEN	TAW
P:5030B	280-107174-C-1	DL	280-407518		03/12/2018 11:25	20	TAL DEN	TAW
A:8260B	280-107174-C-1	DL	280-407518		03/12/2018 11:25	20	TAL DEN	TAW
P:5030B	280-107174-D-1		280-407802		03/14/2018 14:13	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-1		280-407802		03/14/2018 14:13	1	TAL DEN	MRM

Lab ID: 280-107174-1

Client ID: PIN12-01.1802002.100

Sample Date/Time: 03/03/2018 12:05 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-1 MS		280-407518		03/12/2018 11:45	2	TAL DEN	TAW
A:8260B	280-107174-A-1 MS		280-407518		03/12/2018 11:45	2	TAL DEN	TAW

Lab ID: 280-107174-1

Client ID: PIN12-01.1802002.100

Sample Date/Time: 03/03/2018 12:05 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-1 MSD		280-407518		03/12/2018 12:06	2	TAL DEN	TAW
A:8260B	280-107174-A-1 MSD		280-407518		03/12/2018 12:06	2	TAL DEN	TAW

Lab ID: 280-107174-2

Client ID: PIN12-01.1802002.103

Sample Date/Time: 03/03/2018 12:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-2		280-407518		03/12/2018 12:26	10	TAL DEN	TAW
A:8260B	280-107174-B-2		280-407518		03/12/2018 12:26	10	TAL DEN	TAW
P:5030B	280-107174-B-2	DL	280-407518		03/12/2018 12:47	100	TAL DEN	TAW
A:8260B	280-107174-B-2	DL	280-407518		03/12/2018 12:47	100	TAL DEN	TAW
P:5030B	280-107174-D-2		280-407880		03/14/2018 15:30	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-2		280-407880		03/14/2018 15:30	1	TAL DEN	MRM

Lab ID: 280-107174-2

Client ID: PIN12-01.1802002.103

Sample Date/Time: 03/03/2018 12:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-2 MS		280-407880		03/14/2018 16:42	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-2 MS		280-407880		03/14/2018 16:42	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-2

Client ID: PIN12-01.1802002.103

Sample Date/Time: 03/03/2018 12:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-2 MSD		280-407880		03/14/2018 17:00	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-2 MSD		280-407880		03/14/2018 17:00	1	TAL DEN	MRM

Lab ID: 280-107174-3

Client ID: PIN12-01.1802002.104

Sample Date/Time: 03/02/2018 12:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-D-3		280-407518		03/12/2018 13:07	1	TAL DEN	TAW
A:8260B	280-107174-D-3		280-407518		03/12/2018 13:07	1	TAL DEN	TAW
P:5030B	280-107174-B-3		280-407744		03/13/2018 15:10	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-3		280-407744		03/13/2018 15:10	1	TAL DEN	MRM

Lab ID: 280-107174-3 MS

Client ID: PIN12-01.1802002.104

Sample Date/Time: 03/02/2018 12:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-3 MS		280-407744		03/13/2018 16:22	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-3 MS		280-407744		03/13/2018 16:22	1	TAL DEN	MRM

Lab ID: 280-107174-3 MSD

Client ID: PIN12-01.1802002.104

Sample Date/Time: 03/02/2018 12:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-3 MSD		280-407744		03/13/2018 16:40	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-3 MSD		280-407744		03/13/2018 16:40	1	TAL DEN	MRM

Lab ID: 280-107174-4

Client ID: PIN12-01.1802002.106

Sample Date/Time: 03/02/2018 08:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-4		280-407518		03/12/2018 10:24	1	TAL DEN	TAW
A:8260B	280-107174-A-4		280-407518		03/12/2018 10:24	1	TAL DEN	TAW

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-5

Client ID: PIN12-01.1802002.111

Sample Date/Time: 03/02/2018 08:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-5		280-407518		03/12/2018 10:44	1	TAL DEN	TAW
A:8260B	280-107174-A-5		280-407518		03/12/2018 10:44	1	TAL DEN	TAW

Lab ID: 280-107174-6

Client ID: PIN12-01.1802002-001

Sample Date/Time: 03/03/2018 13:10 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-6		280-407518		03/12/2018 13:27	1	TAL DEN	TAW
A:8260B	280-107174-A-6		280-407518		03/12/2018 13:27	1	TAL DEN	TAW
P:5030B	280-107174-A-6	DL	280-407518		03/12/2018 13:48	10	TAL DEN	TAW
A:8260B	280-107174-A-6	DL	280-407518		03/12/2018 13:48	10	TAL DEN	TAW
P:5030B	280-107174-C-6		280-407880		03/14/2018 15:48	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-6		280-407880		03/14/2018 15:48	1	TAL DEN	MRM

Lab ID: 280-107174-7

Client ID: PIN12-01.1802002-002

Sample Date/Time: 03/03/2018 17:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-D-7		280-407518		03/12/2018 14:08	1	TAL DEN	TAW
A:8260B	280-107174-D-7		280-407518		03/12/2018 14:08	1	TAL DEN	TAW
P:5030B	280-107174-A-7		280-407880		03/14/2018 16:24	1	TAL DEN	MRM
A:8260B SIM	280-107174-A-7		280-407880		03/14/2018 16:24	1	TAL DEN	MRM

Lab ID: 280-107174-8

Client ID: PIN12-01.1802002-003

Sample Date/Time: 03/02/2018 15:10 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-8		280-407518		03/12/2018 14:29	1	TAL DEN	TAW
A:8260B	280-107174-B-8		280-407518		03/12/2018 14:29	1	TAL DEN	TAW
P:5030B	280-107174-A-8		280-407744		03/13/2018 16:58	1	TAL DEN	MRM
A:8260B SIM	280-107174-A-8		280-407744		03/13/2018 16:58	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-9

Client ID: PIN12-01.1802002-004

Sample Date/Time: 03/02/2018 15:40 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-9		280-407518		03/12/2018 14:49	1	TAL DEN	TAW
A:8260B	280-107174-A-9		280-407518		03/12/2018 14:49	1	TAL DEN	TAW
P:5030B	280-107174-D-9		280-407802		03/14/2018 10:54	10	TAL DEN	MRM
A:8260B SIM	280-107174-D-9		280-407802		03/14/2018 10:54	10	TAL DEN	MRM

Lab ID: 280-107174-10

Client ID: PIN12-01.1802002-009

Sample Date/Time: 03/05/2018 16:50 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-10		280-407518		03/12/2018 15:09	1	TAL DEN	TAW
A:8260B	280-107174-A-10		280-407518		03/12/2018 15:09	1	TAL DEN	TAW
P:5030B	280-107174-D-10		280-407943		03/15/2018 09:16	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-10		280-407943		03/15/2018 09:16	1	TAL DEN	MRM

Lab ID: 280-107174-10 MS

Client ID: PIN12-01.1802002-009

Sample Date/Time: 03/05/2018 16:50 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-10 MS		280-407943		03/15/2018 10:46	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-10 MS		280-407943		03/15/2018 10:46	1	TAL DEN	MRM

Lab ID: 280-107174-10 MSD

Client ID: PIN12-01.1802002-009

Sample Date/Time: 03/05/2018 16:50 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-10 MSD		280-407943		03/15/2018 11:04	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-10 MSD		280-407943		03/15/2018 11:04	1	TAL DEN	MRM

Lab ID: 280-107174-11

Client ID: PIN12-01.1802002-011

Sample Date/Time: 03/05/2018 17:10 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-11		280-407518		03/12/2018 15:30	1	TAL DEN	TAW
A:8260B	280-107174-B-11		280-407518		03/12/2018 15:30	1	TAL DEN	TAW
P:5030B	280-107174-A-11		280-407943		03/15/2018 09:34	20	TAL DEN	MRM
A:8260B SIM	280-107174-A-11		280-407943		03/15/2018 09:34	20	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-12

Client ID: PIN12-01.1802002-012

Sample Date/Time: 03/05/2018 15:15 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-12		280-407518		03/12/2018 16:11	1	TAL DEN	TAW
A:8260B	280-107174-C-12		280-407518		03/12/2018 16:11	1	TAL DEN	TAW
P:5030B	280-107174-D-12		280-407943		03/15/2018 09:52	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-12		280-407943		03/15/2018 09:52	1	TAL DEN	MRM

Lab ID: 280-107174-13

Client ID: PIN12-01.1802002-013

Sample Date/Time: 03/05/2018 16:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-13		280-407518		03/12/2018 16:31	1	TAL DEN	TAW
A:8260B	280-107174-A-13		280-407518		03/12/2018 16:31	1	TAL DEN	TAW
P:5030B	280-107174-D-13		280-407943		03/15/2018 10:10	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-13		280-407943		03/15/2018 10:10	1	TAL DEN	MRM

Lab ID: 280-107174-14

Client ID: PIN12-01.1802002-014

Sample Date/Time: 03/05/2018 15:35 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-14		280-407518		03/12/2018 16:51	1	TAL DEN	TAW
A:8260B	280-107174-A-14		280-407518		03/12/2018 16:51	1	TAL DEN	TAW
P:5030B	280-107174-C-14		280-407943		03/15/2018 10:28	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-14		280-407943		03/15/2018 10:28	1	TAL DEN	MRM

Lab ID: 280-107174-15

Client ID: PIN12-01.1802002-015

Sample Date/Time: 03/03/2018 08:30 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-D-15		280-407518		03/12/2018 17:12	1	TAL DEN	TAW
A:8260B	280-107174-D-15		280-407518		03/12/2018 17:12	1	TAL DEN	TAW
P:5030B	280-107174-C-15		280-407880		03/14/2018 17:18	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-15		280-407880		03/14/2018 17:18	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-16

Client ID: PIN12-01.1802002-016

Sample Date/Time: 03/03/2018 09:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-16		280-407518		03/12/2018 17:32	1	TAL DEN	TAW
A:8260B	280-107174-A-16		280-407518		03/12/2018 17:32	1	TAL DEN	TAW
P:5030B	280-107174-B-16		280-407880		03/14/2018 17:37	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-16		280-407880		03/14/2018 17:37	1	TAL DEN	MRM

Lab ID: 280-107174-17

Client ID: PIN12-01.1802002-017

Sample Date/Time: 03/03/2018 09:40 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-17		280-407518		03/12/2018 17:53	1	TAL DEN	TAW
A:8260B	280-107174-B-17		280-407518		03/12/2018 17:53	1	TAL DEN	TAW
P:5030B	280-107174-A-17		280-407880		03/14/2018 17:55	1	TAL DEN	MRM
A:8260B SIM	280-107174-A-17		280-407880		03/14/2018 17:55	1	TAL DEN	MRM

Lab ID: 280-107174-18

Client ID: PIN12-01.1802002-021

Sample Date/Time: 03/03/2018 08:05 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-D-18		280-407518		03/12/2018 18:13	1	TAL DEN	TAW
A:8260B	280-107174-D-18		280-407518		03/12/2018 18:13	1	TAL DEN	TAW
P:5030B	280-107174-A-18		280-407880		03/14/2018 18:13	1	TAL DEN	MRM
A:8260B SIM	280-107174-A-18		280-407880		03/14/2018 18:13	1	TAL DEN	MRM

Lab ID: 280-107174-19

Client ID: PIN12-01.1802002-022

Sample Date/Time: 03/03/2018 08:30 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-19		280-407518		03/12/2018 18:33	1	TAL DEN	TAW
A:8260B	280-107174-C-19		280-407518		03/12/2018 18:33	1	TAL DEN	TAW
P:5030B	280-107174-B-19		280-407880		03/14/2018 18:31	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-19		280-407880		03/14/2018 18:31	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-20

Client ID: PIN12-01.1802002-023

Sample Date/Time: 03/03/2018 08:55 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-20		280-407518		03/12/2018 18:54	1	TAL DEN	TAW
A:8260B	280-107174-C-20		280-407518		03/12/2018 18:54	1	TAL DEN	TAW
P:5030B	280-107174-A-20		280-407880		03/14/2018 18:49	1	TAL DEN	MRM
A:8260B SIM	280-107174-A-20		280-407880		03/14/2018 18:49	1	TAL DEN	MRM

Lab ID: 280-107174-21

Client ID: PIN12-01.1802002-024

Sample Date/Time: 03/03/2018 09:35 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-21		280-407514		03/12/2018 18:04	1	TAL DEN	JLS
A:8260B	280-107174-B-21		280-407514		03/12/2018 18:04	1	TAL DEN	JLS
P:5030B	280-107174-D-21		280-407880		03/14/2018 19:07	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-21		280-407880		03/14/2018 19:07	1	TAL DEN	MRM

Lab ID: 280-107174-22

Client ID: PIN12-01.1802002-025

Sample Date/Time: 03/03/2018 10:25 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-22		280-407514		03/12/2018 18:25	1	TAL DEN	JLS
A:8260B	280-107174-A-22		280-407514		03/12/2018 18:25	1	TAL DEN	JLS
P:5030B	280-107174-B-22		280-407880		03/14/2018 19:25	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-22		280-407880		03/14/2018 19:25	1	TAL DEN	MRM

Lab ID: 280-107174-23

Client ID: PIN12-01.1802002-026

Sample Date/Time: 03/03/2018 11:25 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-23		280-407514		03/12/2018 18:45	1	TAL DEN	JLS
A:8260B	280-107174-B-23		280-407514		03/12/2018 18:45	1	TAL DEN	JLS
P:5030B	280-107174-D-23		280-407880		03/14/2018 19:43	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-23		280-407880		03/14/2018 19:43	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-24

Client ID: PIN12-01.1802002-027

Sample Date/Time: 03/02/2018 09:30 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-24		280-407514		03/12/2018 19:06	1	TAL DEN	JLS
A:8260B	280-107174-A-24		280-407514		03/12/2018 19:06	1	TAL DEN	JLS
P:5030B	280-107174-B-24		280-407744		03/13/2018 17:34	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-24		280-407744		03/13/2018 17:34	1	TAL DEN	MRM

Lab ID: 280-107174-25

Client ID: PIN12-01.1802002-028

Sample Date/Time: 03/02/2018 10:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-25		280-407514		03/12/2018 19:26	1	TAL DEN	JLS
A:8260B	280-107174-B-25		280-407514		03/12/2018 19:26	1	TAL DEN	JLS
P:5030B	280-107174-C-25		280-407744		03/13/2018 17:52	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-25		280-407744		03/13/2018 17:52	1	TAL DEN	MRM

Lab ID: 280-107174-26

Client ID: PIN12-01.1802002-029

Sample Date/Time: 03/02/2018 10:25 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-D-26		280-407514		03/12/2018 19:47	1	TAL DEN	JLS
A:8260B	280-107174-D-26		280-407514		03/12/2018 19:47	1	TAL DEN	JLS
P:5030B	280-107174-C-26		280-407744		03/13/2018 18:10	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-26		280-407744		03/13/2018 18:10	1	TAL DEN	MRM

Lab ID: 280-107174-27

Client ID: PIN12-01.1802002-043

Sample Date/Time: 03/05/2018 14:15 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-27		280-407637		03/13/2018 09:12	1	TAL DEN	MD
A:8260B	280-107174-C-27		280-407637		03/13/2018 09:12	1	TAL DEN	MD
P:5030B	280-107174-D-27		280-407943		03/15/2018 11:22	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-27		280-407943		03/15/2018 11:22	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-28

Client ID: PIN12-01.1802002-044

Sample Date/Time: 03/05/2018 14:45 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-28		280-407637		03/13/2018 14:04	1	TAL DEN	MD
A:8260B	280-107174-C-28		280-407637		03/13/2018 14:04	1	TAL DEN	MD
P:5030B	280-107174-B-28		280-407943		03/15/2018 11:40	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-28		280-407943		03/15/2018 11:40	1	TAL DEN	MRM

Lab ID: 280-107174-29

Client ID: PIN12-01.1802002-045

Sample Date/Time: 03/05/2018 15:15 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-29		280-407637		03/13/2018 14:25	1	TAL DEN	MD
A:8260B	280-107174-A-29		280-407637		03/13/2018 14:25	1	TAL DEN	MD
P:5030B	280-107174-C-29		280-407943		03/15/2018 11:58	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-29		280-407943		03/15/2018 11:58	1	TAL DEN	MRM

Lab ID: 280-107174-30

Client ID: PIN12-01.1802002-049

Sample Date/Time: 03/05/2018 15:55 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-30		280-407637		03/13/2018 15:28	1	TAL DEN	MD
A:8260B	280-107174-C-30		280-407637		03/13/2018 15:28	1	TAL DEN	MD
P:5030B	280-107174-B-30		280-407943		03/15/2018 12:16	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-30		280-407943		03/15/2018 12:16	1	TAL DEN	MRM

Lab ID: 280-107174-31

Client ID: PIN12-01.1802002-050

Sample Date/Time: 03/05/2018 16:20 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-31		280-407637		03/13/2018 15:49	1	TAL DEN	MD
A:8260B	280-107174-C-31		280-407637		03/13/2018 15:49	1	TAL DEN	MD
P:5030B	280-107174-A-31		280-407943		03/15/2018 12:34	1	TAL DEN	MRM
A:8260B SIM	280-107174-A-31		280-407943		03/15/2018 12:34	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-32

Client ID: PIN12-01.1802002-051

Sample Date/Time: 03/05/2018 16:50 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-32		280-407637		03/13/2018 16:10	1	TAL DEN	MD
A:8260B	280-107174-C-32		280-407637		03/13/2018 16:10	1	TAL DEN	MD
P:5030B	280-107174-B-32		280-407943		03/15/2018 12:52	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-32		280-407943		03/15/2018 12:52	1	TAL DEN	MRM

Lab ID: 280-107174-33

Client ID: PIN12-01.1802002-055

Sample Date/Time: 03/05/2018 10:45 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-33		280-407637		03/13/2018 16:32	1	TAL DEN	MD
A:8260B	280-107174-C-33		280-407637		03/13/2018 16:32	1	TAL DEN	MD
P:5030B	280-107174-B-33		280-408141		03/16/2018 15:08	1	TAL DEN	GPM
A:8260B SIM	280-107174-B-33		280-408141		03/16/2018 15:08	1	TAL DEN	GPM

Lab ID: 280-107174-34

Client ID: PIN12-01.1802002-056

Sample Date/Time: 03/05/2018 11:10 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-34		280-407637		03/13/2018 09:33	1	TAL DEN	MD
A:8260B	280-107174-C-34		280-407637		03/13/2018 09:33	1	TAL DEN	MD
P:5030B	280-107174-C-34	DL	280-407637		03/13/2018 17:56	4	TAL DEN	MD
A:8260B	280-107174-C-34	DL	280-407637		03/13/2018 17:56	4	TAL DEN	MD
P:5030B	280-107174-B-34		280-407943		03/15/2018 13:46	20	TAL DEN	MRM
A:8260B SIM	280-107174-B-34		280-407943		03/15/2018 13:46	20	TAL DEN	MRM
P:5030B	280-107174-D-34		280-408141		03/16/2018 15:26	1	TAL DEN	GPM
A:8260B SIM	280-107174-D-34		280-408141		03/16/2018 15:26	1	TAL DEN	GPM

Lab ID: 280-107174-35

Client ID: PIN12-01.1802002-057

Sample Date/Time: 03/05/2018 13:15 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-35		280-407637		03/13/2018 16:53	1	TAL DEN	MD
A:8260B	280-107174-C-35		280-407637		03/13/2018 16:53	1	TAL DEN	MD
P:5030B	280-107174-D-35		280-408141		03/16/2018 15:44	1	TAL DEN	GPM
A:8260B SIM	280-107174-D-35		280-408141		03/16/2018 15:44	1	TAL DEN	GPM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-36

Client ID: PIN12-01.1802002-058

Sample Date/Time: 03/05/2018 09:10 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-36		280-407637		03/13/2018 17:14	1	TAL DEN	MD
A:8260B	280-107174-C-36		280-407637		03/13/2018 17:14	1	TAL DEN	MD
P:5030B	280-107174-A-36		280-408141		03/16/2018 16:02	1	TAL DEN	GPM
A:8260B SIM	280-107174-A-36		280-408141		03/16/2018 16:02	1	TAL DEN	GPM

Lab ID: 280-107174-37

Client ID: PIN12-01.1802002-059

Sample Date/Time: 03/05/2018 09:35 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-37		280-407637		03/13/2018 10:14	1	TAL DEN	MD
A:8260B	280-107174-A-37		280-407637		03/13/2018 10:14	1	TAL DEN	MD
P:5030B	280-107174-B-37		280-408141		03/16/2018 14:14	5	TAL DEN	GPM
A:8260B SIM	280-107174-B-37		280-408141		03/16/2018 14:14	5	TAL DEN	GPM

Lab ID: 280-107174-37 MS

Client ID: PIN12-01.1802002-059

Sample Date/Time: 03/05/2018 09:35 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-37 MS		280-408141		03/16/2018 14:32	5	TAL DEN	GPM
A:8260B SIM	280-107174-B-37 MS		280-408141		03/16/2018 14:32	5	TAL DEN	GPM

Lab ID: 280-107174-37 MSD

Client ID: PIN12-01.1802002-059

Sample Date/Time: 03/05/2018 09:35 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-37 MSD		280-408141		03/16/2018 14:50	5	TAL DEN	GPM
A:8260B SIM	280-107174-B-37 MSD		280-408141		03/16/2018 14:50	5	TAL DEN	GPM

Lab ID: 280-107174-38

Client ID: PIN12-01.1802002-060

Sample Date/Time: 03/05/2018 10:10 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-38		280-407637		03/13/2018 17:35	1	TAL DEN	MD
A:8260B	280-107174-C-38		280-407637		03/13/2018 17:35	1	TAL DEN	MD
P:5030B	280-107174-B-38		280-407943		03/15/2018 16:28	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-38		280-407943		03/15/2018 16:28	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-39

Client ID: PIN12-01.1802002-061

Sample Date/Time: 03/02/2018 12:05 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-39		280-407503		03/12/2018 14:10	1	TAL DEN	MD
A:8260B	280-107174-C-39		280-407503		03/12/2018 14:10	1	TAL DEN	MD
P:5030B	280-107174-D-39		280-407744		03/13/2018 18:28	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-39		280-407744		03/13/2018 18:28	1	TAL DEN	MRM

Lab ID: 280-107174-40

Client ID: PIN12-01.1802002-062

Sample Date/Time: 03/02/2018 12:30 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-40		280-407503		03/12/2018 14:31	1	TAL DEN	MD
A:8260B	280-107174-A-40		280-407503		03/12/2018 14:31	1	TAL DEN	MD
P:5030B	280-107174-D-40		280-407744		03/13/2018 18:46	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-40		280-407744		03/13/2018 18:46	1	TAL DEN	MRM

Lab ID: 280-107174-41

Client ID: PIN12-01.1802002-063

Sample Date/Time: 03/02/2018 13:20 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-41		280-407503		03/12/2018 14:53	1	TAL DEN	MD
A:8260B	280-107174-A-41		280-407503		03/12/2018 14:53	1	TAL DEN	MD
P:5030B	280-107174-C-41		280-407744		03/13/2018 19:04	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-41		280-407744		03/13/2018 19:04	1	TAL DEN	MRM

Lab ID: 280-107174-42

Client ID: PIN12-01.1802002-064

Sample Date/Time: 03/03/2018 10:35 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-42		280-407638		03/13/2018 15:24	1	TAL DEN	MD
A:8260B	280-107174-C-42		280-407638		03/13/2018 15:24	1	TAL DEN	MD
P:5030B	280-107174-D-42		280-407880		03/14/2018 20:01	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-42		280-407880		03/14/2018 20:01	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-43

Client ID: PIN12-01.1802002-065

Sample Date/Time: 03/03/2018 11:05 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-43		280-407638		03/13/2018 09:08	5	TAL DEN	MD
A:8260B	280-107174-C-43		280-407638		03/13/2018 09:08	5	TAL DEN	MD
P:5030B	280-107174-C-43	DL	280-407638		03/13/2018 17:18	50	TAL DEN	MD
A:8260B	280-107174-C-43	DL	280-407638		03/13/2018 17:18	50	TAL DEN	MD
P:5030B	280-107174-A-43		280-407880		03/14/2018 20:19	4	TAL DEN	MRM
A:8260B SIM	280-107174-A-43		280-407880		03/14/2018 20:19	4	TAL DEN	MRM

Lab ID: 280-107174-44

Client ID: PIN12-01.1802002-066

Sample Date/Time: 03/03/2018 12:05 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-44		280-407638		03/13/2018 08:27	1	TAL DEN	MD
A:8260B	280-107174-C-44		280-407638		03/13/2018 08:27	1	TAL DEN	MD
P:5030B	280-107174-C-44	DL	280-407638		03/13/2018 17:37	2	TAL DEN	MD
A:8260B	280-107174-C-44	DL	280-407638		03/13/2018 17:37	2	TAL DEN	MD
P:5030B	280-107174-D-44		280-407880		03/14/2018 20:37	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-44		280-407880		03/14/2018 20:37	1	TAL DEN	MRM

Lab ID: 280-107174-45

Client ID: PIN12-01.1802002-067

Sample Date/Time: 03/03/2018 12:20 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-45		280-407638		03/13/2018 15:43	1	TAL DEN	MD
A:8260B	280-107174-B-45		280-407638		03/13/2018 15:43	1	TAL DEN	MD
P:5030B	280-107174-A-45		280-407880		03/14/2018 20:55	1	TAL DEN	MRM
A:8260B SIM	280-107174-A-45		280-407880		03/14/2018 20:55	1	TAL DEN	MRM

Lab ID: 280-107174-46

Client ID: PIN12-01.1802002-068

Sample Date/Time: 03/03/2018 12:40 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-46		280-407638		03/13/2018 09:38	40	TAL DEN	MD
A:8260B	280-107174-B-46		280-407638		03/13/2018 09:38	40	TAL DEN	MD
P:5030B	280-107174-B-46	DL	280-407638		03/13/2018 17:56	400	TAL DEN	MD
A:8260B	280-107174-B-46	DL	280-407638		03/13/2018 17:56	400	TAL DEN	MD
P:5030B	280-107174-A-46		280-407880		03/14/2018 21:13	20	TAL DEN	MRM
A:8260B SIM	280-107174-A-46		280-407880		03/14/2018 21:13	20	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-47

Client ID: PIN12-01.1802002-069

Sample Date/Time: 03/03/2018 13:45 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-47		280-407638		03/13/2018 16:02	1	TAL DEN	MD
A:8260B	280-107174-B-47		280-407638		03/13/2018 16:02	1	TAL DEN	MD
P:5030B	280-107174-C-47		280-407880		03/14/2018 21:31	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-47		280-407880		03/14/2018 21:31	1	TAL DEN	MRM

Lab ID: 280-107174-48

Client ID: PIN12-01.1802002-079

Sample Date/Time: 03/02/2018 11:00 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-48		280-407503		03/12/2018 11:00	1	TAL DEN	MD
A:8260B	280-107174-C-48		280-407503		03/12/2018 11:00	1	TAL DEN	MD
P:5030B	280-107174-D-48		280-407802		03/14/2018 11:12	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-48		280-407802		03/14/2018 11:12	1	TAL DEN	MRM

Lab ID: 280-107174-49

Client ID: PIN12-01.1802002-080

Sample Date/Time: 03/02/2018 11:45 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-49		280-407503		03/12/2018 11:21	4	TAL DEN	MD
A:8260B	280-107174-A-49		280-407503		03/12/2018 11:21	4	TAL DEN	MD
P:5030B	280-107174-A-49	DL	280-407503		03/12/2018 17:20	40	TAL DEN	MD
A:8260B	280-107174-A-49	DL	280-407503		03/12/2018 17:20	40	TAL DEN	MD
P:5030B	280-107174-B-49		280-407802		03/14/2018 11:30	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-49		280-407802		03/14/2018 11:30	1	TAL DEN	MRM

Lab ID: 280-107174-50

Client ID: PIN12-01.1802002-081

Sample Date/Time: 03/02/2018 12:30 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-50		280-407503		03/12/2018 11:42	100	TAL DEN	MD
A:8260B	280-107174-B-50		280-407503		03/12/2018 11:42	100	TAL DEN	MD
P:5030B	280-107174-B-50	DL	280-407503		03/12/2018 17:41	1000	TAL DEN	MD
A:8260B	280-107174-B-50	DL	280-407503		03/12/2018 17:41	1000	TAL DEN	MD
P:5030B	280-107174-A-50		280-407802		03/14/2018 11:48	100	TAL DEN	MRM
A:8260B SIM	280-107174-A-50		280-407802		03/14/2018 11:48	100	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-51

Client ID: PIN12-01.1802002-082

Sample Date/Time: 03/02/2018 09:30 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-51		280-407503		03/12/2018 12:04	1	TAL DEN	MD
A:8260B	280-107174-A-51		280-407503		03/12/2018 12:04	1	TAL DEN	MD
P:5030B	280-107174-A-51	DL	280-407503		03/12/2018 18:02	10	TAL DEN	MD
A:8260B	280-107174-A-51	DL	280-407503		03/12/2018 18:02	10	TAL DEN	MD
P:5030B	280-107174-C-51		280-407802		03/14/2018 13:15	10	TAL DEN	MRM
A:8260B SIM	280-107174-C-51		280-407802		03/14/2018 13:15	10	TAL DEN	MRM

Lab ID: 280-107174-51 MS

Client ID: PIN12-01.1802002-082

Sample Date/Time: 03/02/2018 09:30 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-51 MS		280-407802		03/14/2018 13:33	10	TAL DEN	MRM
A:8260B SIM	280-107174-C-51 MS		280-407802		03/14/2018 13:33	10	TAL DEN	MRM

Lab ID: 280-107174-51 MSD

Client ID: PIN12-01.1802002-082

Sample Date/Time: 03/02/2018 09:30 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-51 MSD		280-407802		03/14/2018 13:51	10	TAL DEN	MRM
A:8260B SIM	280-107174-C-51 MSD		280-407802		03/14/2018 13:51	10	TAL DEN	MRM

Lab ID: 280-107174-52

Client ID: PIN12-01.1802002-083

Sample Date/Time: 03/02/2018 10:10 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-52		280-407503		03/12/2018 15:14	1	TAL DEN	MD
A:8260B	280-107174-A-52		280-407503		03/12/2018 15:14	1	TAL DEN	MD
P:5030B	280-107174-B-52		280-407744		03/13/2018 20:34	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-52		280-407744		03/13/2018 20:34	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-53

Client ID: PIN12-01.1802002-084

Sample Date/Time: 03/02/2018 08:55 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-53		280-407503		03/12/2018 15:35	1	TAL DEN	MD
A:8260B	280-107174-A-53		280-407503		03/12/2018 15:35	1	TAL DEN	MD
P:5030B	280-107174-D-53		280-407744		03/13/2018 20:52	1	TAL DEN	MRM
A:8260B SIM	280-107174-D-53		280-407744		03/13/2018 20:52	1	TAL DEN	MRM

Lab ID: 280-107174-54

Client ID: PIN12-01.1802002-085

Sample Date/Time: 03/02/2018 15:50 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-D-54		280-407503		03/12/2018 15:56	1	TAL DEN	MD
A:8260B	280-107174-D-54		280-407503		03/12/2018 15:56	1	TAL DEN	MD
P:5030B	280-107174-A-54		280-407744		03/13/2018 21:10	1	TAL DEN	MRM
A:8260B SIM	280-107174-A-54		280-407744		03/13/2018 21:10	1	TAL DEN	MRM

Lab ID: 280-107174-55

Client ID: PIN12-01.1802002-086

Sample Date/Time: 03/02/2018 16:30 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-55		280-407503		03/12/2018 16:17	1	TAL DEN	MD
A:8260B	280-107174-C-55		280-407503		03/12/2018 16:17	1	TAL DEN	MD
P:5030B	280-107174-A-55		280-407744		03/13/2018 21:28	1	TAL DEN	MRM
A:8260B SIM	280-107174-A-55		280-407744		03/13/2018 21:28	1	TAL DEN	MRM

Lab ID: 280-107174-56

Client ID: PIN12-01.1802002-088

Sample Date/Time: 03/05/2018 08:30 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-56		280-407638		03/13/2018 16:21	1	TAL DEN	MD
A:8260B	280-107174-B-56		280-407638		03/13/2018 16:21	1	TAL DEN	MD
P:5030B	280-107174-A-56		280-408256		03/18/2018 17:06	1	TAL DEN	MRM
A:8260B SIM	280-107174-A-56		280-408256		03/18/2018 17:06	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-57

Client ID: PIN12-01.1802002-089

Sample Date/Time: 03/05/2018 09:20 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-B-57		280-407638		03/13/2018 16:40	1	TAL DEN	MD
A:8260B	280-107174-B-57		280-407638		03/13/2018 16:40	1	TAL DEN	MD
P:5030B	280-107174-C-57		280-407943		03/15/2018 17:12	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-57		280-407943		03/15/2018 17:12	1	TAL DEN	MRM

Lab ID: 280-107174-58

Client ID: PIN12-01.1802002-090

Sample Date/Time: 03/05/2018 11:10 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-58		280-407638		03/13/2018 16:59	1	TAL DEN	MD
A:8260B	280-107174-A-58		280-407638		03/13/2018 16:59	1	TAL DEN	MD
P:5030B	280-107174-C-58		280-407943		03/15/2018 17:30	1	TAL DEN	MRM
A:8260B SIM	280-107174-C-58		280-407943		03/15/2018 17:30	1	TAL DEN	MRM

Lab ID: 280-107174-59

Client ID: PIN12-01.1802002-091

Sample Date/Time: 03/05/2018 13:15 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-D-59		280-407810		03/14/2018 10:45	1	TAL DEN	MD
A:8260B	280-107174-D-59		280-407810		03/14/2018 10:45	1	TAL DEN	MD
P:5030B	280-107174-C-59		280-408141		03/16/2018 17:13	1	TAL DEN	GPM
A:8260B SIM	280-107174-C-59		280-408141		03/16/2018 17:13	1	TAL DEN	GPM

Lab ID: 280-107174-60

Client ID: PIN12-01.1802002-092

Sample Date/Time: 03/05/2018 14:15 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-D-60		280-407810		03/14/2018 11:04	1	TAL DEN	MD
A:8260B	280-107174-D-60		280-407810		03/14/2018 11:04	1	TAL DEN	MD
P:5030B	280-107174-A-60		280-408141		03/16/2018 17:31	1	TAL DEN	GPM
A:8260B SIM	280-107174-A-60		280-408141		03/16/2018 17:31	1	TAL DEN	GPM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107174-61

Client ID: PIN12-01.1802002-093

Sample Date/Time: 03/05/2018 13:35 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-61		280-407810		03/14/2018 11:23	1	TAL DEN	MD
A:8260B	280-107174-A-61		280-407810		03/14/2018 11:23	1	TAL DEN	MD
P:5030B	280-107174-B-61		280-408141		03/16/2018 17:49	1	TAL DEN	GPM
A:8260B SIM	280-107174-B-61		280-408141		03/16/2018 17:49	1	TAL DEN	GPM

Lab ID: 280-107174-62

Client ID: PIN12-01.1802002-097

Sample Date/Time: 03/02/2018 16:55 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-D-62		280-407503		03/12/2018 16:38	1	TAL DEN	MD
A:8260B	280-107174-D-62		280-407503		03/12/2018 16:38	1	TAL DEN	MD
P:5030B	280-107174-A-62		280-407880		03/14/2018 21:49	1	TAL DEN	MRM
A:8260B SIM	280-107174-A-62		280-407880		03/14/2018 21:49	1	TAL DEN	MRM

Lab ID: 280-107174-63

Client ID: PIN12-01.1802002-098

Sample Date/Time: 03/05/2018 08:15 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-A-63		280-407810		03/14/2018 11:42	1	TAL DEN	MD
A:8260B	280-107174-A-63		280-407810		03/14/2018 11:42	1	TAL DEN	MD
P:5030B	280-107174-C-63		280-408141		03/16/2018 18:07	1	TAL DEN	GPM
A:8260B SIM	280-107174-C-63		280-408141		03/16/2018 18:07	1	TAL DEN	GPM

Lab ID: 280-107174-64

Client ID: PIN12-01.1802002-099

Sample Date/Time: 03/02/2018 17:15 Received Date/Time: 03/07/2018 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107174-C-64		280-407503		03/12/2018 16:59	1	TAL DEN	MD
A:8260B	280-107174-C-64		280-407503		03/12/2018 16:59	1	TAL DEN	MD
P:5030B	280-107174-B-64		280-407880		03/14/2018 22:07	1	TAL DEN	MRM
A:8260B SIM	280-107174-B-64		280-407880		03/14/2018 22:07	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1

SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-407518/6		280-407518		03/12/2018 09:11	1	TAL DEN	TAW
A:8260B	MB 280-407518/6		280-407518		03/12/2018 09:11	1	TAL DEN	TAW
P:5030B	MB 280-407503/6		280-407503		03/12/2018 09:35	1	TAL DEN	MD
A:8260B	MB 280-407503/6		280-407503		03/12/2018 09:35	1	TAL DEN	MD
P:5030B	MB 280-407514/6		280-407514		03/12/2018 11:12	1	TAL DEN	JLS
A:8260B	MB 280-407514/6		280-407514		03/12/2018 11:12	1	TAL DEN	JLS
P:5030B	MB 280-407638/6		280-407638		03/13/2018 07:37	1	TAL DEN	MD
A:8260B	MB 280-407638/6		280-407638		03/13/2018 07:37	1	TAL DEN	MD
P:5030B	MB 280-407637/6		280-407637		03/13/2018 14:46	1	TAL DEN	MD
A:8260B	MB 280-407637/6		280-407637		03/13/2018 14:46	1	TAL DEN	MD
P:5030B	MB 280-407810/6		280-407810		03/14/2018 09:28	1	TAL DEN	MD
A:8260B	MB 280-407810/6		280-407810		03/14/2018 09:28	1	TAL DEN	MD
P:5030B	MB 280-407744/5		280-407744		03/13/2018 14:52	1	TAL DEN	MRM
A:8260B SIM	MB 280-407744/5		280-407744		03/13/2018 14:52	1	TAL DEN	MRM
P:5030B	MB 280-407802/5		280-407802		03/14/2018 08:29	1	TAL DEN	MRM
A:8260B SIM	MB 280-407802/5		280-407802		03/14/2018 08:29	1	TAL DEN	MRM
P:5030B	MB 280-407880/5		280-407880		03/14/2018 16:06	1	TAL DEN	MRM
A:8260B SIM	MB 280-407880/5		280-407880		03/14/2018 16:06	1	TAL DEN	MRM
P:5030B	MB 280-407943/5		280-407943		03/15/2018 08:58	1	TAL DEN	MRM
A:8260B SIM	MB 280-407943/5		280-407943		03/15/2018 08:58	1	TAL DEN	MRM
P:5030B	MB 280-408141/5		280-408141		03/16/2018 12:24	1	TAL DEN	GPM
A:8260B SIM	MB 280-408141/5		280-408141		03/16/2018 12:24	1	TAL DEN	GPM
P:5030B	MB 280-408256/5		280-408256		03/18/2018 09:36	1	TAL DEN	MRM
A:8260B SIM	MB 280-408256/5		280-408256		03/18/2018 09:36	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1

SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-407518/4		280-407518		03/12/2018 08:51	1	TAL DEN	TAW
A:8260B	LCS 280-407518/4		280-407518		03/12/2018 08:51	1	TAL DEN	TAW
P:5030B	LCS 280-407503/4		280-407503		03/12/2018 09:07	1	TAL DEN	MD
A:8260B	LCS 280-407503/4		280-407503		03/12/2018 09:07	1	TAL DEN	MD
P:5030B	LCS 280-407514/4		280-407514		03/12/2018 10:51	1	TAL DEN	JLS
A:8260B	LCS 280-407514/4		280-407514		03/12/2018 10:51	1	TAL DEN	JLS
P:5030B	LCS 280-407638/4		280-407638		03/13/2018 07:18	1	TAL DEN	MD
A:8260B	LCS 280-407638/4		280-407638		03/13/2018 07:18	1	TAL DEN	MD
P:5030B	LCS 280-407637/4		280-407637		03/13/2018 08:01	1	TAL DEN	MD
A:8260B	LCS 280-407637/4		280-407637		03/13/2018 08:01	1	TAL DEN	MD
P:5030B	LCS 280-407810/4		280-407810		03/14/2018 09:09	1	TAL DEN	MD
A:8260B	LCS 280-407810/4		280-407810		03/14/2018 09:09	1	TAL DEN	MD
P:5030B	LCS 280-407744/3		280-407744		03/13/2018 14:34	1	TAL DEN	MRM
A:8260B SIM	LCS 280-407744/3		280-407744		03/13/2018 14:34	1	TAL DEN	MRM
P:5030B	LCS 280-407802/3		280-407802		03/14/2018 07:53	1	TAL DEN	MRM
A:8260B SIM	LCS 280-407802/3		280-407802		03/14/2018 07:53	1	TAL DEN	MRM
P:5030B	LCS 280-407880/3		280-407880		03/14/2018 14:54	1	TAL DEN	MRM
A:8260B SIM	LCS 280-407880/3		280-407880		03/14/2018 14:54	1	TAL DEN	MRM
P:5030B	LCS 280-407943/3		280-407943		03/15/2018 08:21	1	TAL DEN	MRM
A:8260B SIM	LCS 280-407943/3		280-407943		03/15/2018 08:21	1	TAL DEN	MRM
P:5030B	LCS 280-408141/3		280-408141		03/16/2018 12:42	1	TAL DEN	GPM
A:8260B SIM	LCS 280-408141/3		280-408141		03/16/2018 12:42	1	TAL DEN	GPM
P:5030B	LCS 280-408256/3		280-408256		03/18/2018 09:18	1	TAL DEN	MRM
A:8260B SIM	LCS 280-408256/3		280-408256		03/18/2018 09:18	1	TAL DEN	MRM

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-407503/5		280-407503		03/12/2018 09:57	1	TAL DEN	MD
A:8260B	LCSD 280-407503/5		280-407503		03/12/2018 09:57	1	TAL DEN	MD
P:5030B	LCSD 280-407514/5		280-407514		03/12/2018 11:32	1	TAL DEN	JLS
A:8260B	LCSD 280-407514/5		280-407514		03/12/2018 11:32	1	TAL DEN	JLS
P:5030B	LCSD 280-407802/4		280-407802		03/14/2018 08:11	1	TAL DEN	MRM
A:8260B SIM	LCSD 280-407802/4		280-407802		03/14/2018 08:11	1	TAL DEN	MRM
P:5030B	LCSD 280-407943/4		280-407943		03/15/2018 08:39	1	TAL DEN	MRM
A:8260B SIM	LCSD 280-407943/4		280-407943		03/15/2018 08:39	1	TAL DEN	MRM
P:5030B	LCSD 280-408141/4		280-408141		03/16/2018 12:06	1	TAL DEN	GPM
A:8260B SIM	LCSD 280-408141/4		280-408141		03/16/2018 12:06	1	TAL DEN	GPM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1

SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: MS

Client ID: N/A

Sample Date/Time: 03/02/2018 13:31 Received Date/Time: 03/02/2018 14:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106956-B-10 MS		280-407503		03/12/2018 12:25	1	TAL DEN	MD
A:8260B	280-106956-B-10 MS		280-407503		03/12/2018 12:25	1	TAL DEN	MD
P:5030B	280-107062-A-4 MS		280-407514		03/12/2018 17:02	1	TAL DEN	JLS
A:8260B	280-107062-A-4 MS		280-407514		03/12/2018 17:02	1	TAL DEN	JLS
P:5030B	280-107123-B-8 MS		280-407637		03/13/2018 10:35	1	TAL DEN	MD
A:8260B	280-107123-B-8 MS		280-407637		03/13/2018 10:35	1	TAL DEN	MD
P:5030B	580-75480-E-8 MS		280-407638		03/13/2018 11:15	1	TAL DEN	MD
A:8260B	580-75480-E-8 MS		280-407638		03/13/2018 11:15	1	TAL DEN	MD
P:5030B	280-107165-D-4 MS		280-407810		03/14/2018 12:02	1	TAL DEN	MD
A:8260B	280-107165-D-4 MS		280-407810		03/14/2018 12:02	1	TAL DEN	MD
P:5030B	280-107263-C-4 MS		280-408256		03/18/2018 12:18	1	TAL DEN	MRM
A:8260B SIM	280-107263-C-4 MS		280-408256		03/18/2018 12:18	1	TAL DEN	MRM

Lab ID: MSD

Client ID: N/A

Sample Date/Time: 03/02/2018 13:31 Received Date/Time: 03/02/2018 14:24

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-106956-B-10 MSD		280-407503		03/12/2018 12:46	1	TAL DEN	MD
A:8260B	280-106956-B-10 MSD		280-407503		03/12/2018 12:46	1	TAL DEN	MD
P:5030B	280-107062-A-4 MSD		280-407514		03/12/2018 17:23	1	TAL DEN	JLS
A:8260B	280-107062-A-4 MSD		280-407514		03/12/2018 17:23	1	TAL DEN	JLS
P:5030B	280-107123-B-8 MSD		280-407637		03/13/2018 10:56	1	TAL DEN	MD
A:8260B	280-107123-B-8 MSD		280-407637		03/13/2018 10:56	1	TAL DEN	MD
P:5030B	580-75480-D-8 MSD		280-407638		03/13/2018 11:34	1	TAL DEN	MD
A:8260B	580-75480-D-8 MSD		280-407638		03/13/2018 11:34	1	TAL DEN	MD
P:5030B	280-107165-D-4 MSD		280-407810		03/14/2018 12:21	1	TAL DEN	MD
A:8260B	280-107165-D-4 MSD		280-407810		03/14/2018 12:21	1	TAL DEN	MD
P:5030B	280-107263-C-4 MSD		280-408256		03/18/2018 12:36	1	TAL DEN	MRM
A:8260B SIM	280-107263-C-4 MSD		280-408256		03/18/2018 12:36	1	TAL DEN	MRM

Lab References:

TAL DEN = TestAmerica Denver

Shipping and Receiving Documents

Task Code: PIN12-01.1802002

COC ID: X2-PIN12-011802002-COC.1

TURNAROUND TIME: 28

PROJECT INFORMATION							LABORATORY				SAMPLING / SHIPPING			
Facility Name	Industrial Drain Leaks Bldg 100						Lab Name:	TestAmerica Denver			Shipping Company:			
Project Number	I.101.I.06.509.2.01						Address:	4955 Yarrow Street			Tracking Number:			
Project Name:	Pinellas Bldg 100 Monitoring						City:	Arvada	State: CO		Cooler Count:			
							Postal Code:	80002			Date Shipped: 03/06/2018			
							Phone Number:	303-736-0100			Sampled by: BaerCaballero GrahamTigar			
							PO Number:	LMCP6283						
											Sampler 2:			

Chain of Custody / Sample Submittal Form

Task Code: PIN12-01.1802002		COC ID: x2-PIN12-01.1802002-COC.2		TURNAROUND TIME: 28	
PROJECT INFORMATION				LABORATORY	
Facility Name:	Industrial Drain Leaks Bldg 100			Lab Name:	TestAmerica Denver
Project Number:	1.101.1.06.509.2.01			Address:	4955 Yarrow Street
Project Name:	Pinellas Bldg 100 Monitoring			City:	Arvada State: CO
				Postal Code:	80002
				Phone Number:	303-736-0100
				PO Number:	LMCP6283
				Shipping Company:	
				Tracking Number:	
				Cooler Count:	
				Date Shipped:	03/06/2018
				Sampled by:	BaerCaballero GrahamTigar
				Sampler 2:	

SAMPLE DETAILS								ANALYSIS REQUESTED												
Sample ID	Location	Matrix	Date	Time (24hr)	G-Grab C-Comp	QC	# of Cont	Filtered - F: Field, L: Lab, FL: Field & Lab, N: None												
								Container	Filtered	Preserv.	ANALYSIS									
								GLASS 40 ML	GLASS 40 ML											
PIN12-01.1802002-015	0561-1	GW	03/03/18	08:30	G		4													
PIN12-01.1802002-016	0561-2	GW	03/03/18	09:00	G		4													
PIN12-01.1802002-017	0561-3	GW	03/03/18	09:40	G		4													
PIN12-01.1802002-021	0568-1	GW	03/03/18	08:05	G		4													
PIN12-01.1802002-022	0568-2	GW	03/03/18	08:30	G		4													
PIN12-01.1802002-023	0568-3	GW	03/03/18	08:55	G		4													
PIN12-01.1802002-024	0569-1	GW	03/03/18	09:35	G		4													
PIN12-01.1802002-025	0569-2	GW	03/03/18	10:25	G		4													
PIN12-01.1802002-026	0569-3	GW	03/03/18	11:25	G		4													
PIN12-01.1802002-027	0570-1	GW	03/02/18	09:30	G		4													
PIN12-01.1802002-028	0570-2	GW	03/02/18	10:00	G		4													
PIN12-01.1802002-029	0570-3	GW	03/02/18	10:25	G		4													
PIN12-01.1802002-043	0577-1	GW	03/05/18	14:15	G		4													
PIN12-01.1802002-044	0577-2	GW	03/05/18	14:45	G		4													

ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS This is the 2nd shipment for PIN12-01.1802002. There will be another shipment in a few days.	RELINQUISHED BY <i>[Signature]</i>	DATE/TIME 3/6/18 0700 3-6-18 1700	ACCEPTED BY <i>[Signature]</i>	DATE/TIME 3-6-18 1240 3-7-18 1015
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Chain of Custody / Sample Submittal Form

Task Code: PIN12-01.1802002		COC ID: x2-PIN12-01.1802002-COC.3		TURNAROUND TIME: 28															
PROJECT INFORMATION				LABORATORY															
Facility Name: Industrial Drain Leaks Bldg 100		Lab Name: TestAmerica Denver		Shipping Company:															
Project Number: 1.101.1.06.509.2.01		Address: 4955 Yarrow Street		Tracking Number:															
Project Name: Pinellas Bldg 100 Monitoring		City: Arvada State: CO		Cooler Count:															
		Postal Code: 80002		Date Shipped: 03/06/2018															
		Phone Number: 303-736-0100		Sampled by: BacrCaballero Graham Tigar															
		PO Number: LMCP6283		Sampler 2:															
SAMPLE DETAILS				ANALYSIS REQUESTED															
				Filtered - F: Field, L: Lab, FL: Field & Lab, N: None															
				GLASS 40 ML GLASS 40 ML															
				N N															
				4 C, HCl 4 C, HCl															
				ANALYSIS															
				1,4-Dioxane NOAS															
Sample ID	Location	Matrix	Date	Time (24hr)	G=Grab C=Comp QC	# of Cont													
PIN12-01.1802002-045	0577-3	GW	03/05/18	15:15	G	4	1 N	3 N											
PIN12-01.1802002-049	0579-1	GW	03/05/18	15:55	G	4	1 N	3 N											
PIN12-01.1802002-050	0579-2	GW	03/05/18	16:20	G	4	1 N	3 N											
PIN12-01.1802002-051	0579-3	GW	03/05/18	16:50	G	4	1 N	3 N											
PIN12-01.1802002-055	0581-1	GW	03/05/18	10:45	G	4	1 N	3 N											
PIN12-01.1802002-056	0581-2	GW	03/05/18	11:10	G	4	1 N	3 N											
PIN12-01.1802002-057	0581-3	GW	03/05/18	13:15	G	4	1 N	3 N											
PIN12-01.1802002-058	0582-1	GW	03/05/18	09:10	G	4	1 N	3 N											
PIN12-01.1802002-059	0582-2	GW	03/05/18	09:35	G	4	1 N	3 N											
PIN12-01.1802002-060	0582-3	GW	03/05/18	10:10	G	4	1 N	3 N											
PIN12-01.1802002-061	0583-1	GW	03/02/18	12:05	G	4	1 N	3 N											
PIN12-01.1802002-062	0583-2	GW	03/02/18	12:30	G	4	1 N	3 N											
PIN12-01.1802002-063	0583-3	GW	03/02/18	13:20	G	4	1 N	3 N											
PIN12-01.1802002-064	0584-1	GW	03/03/18	10:35	G	4	1 N	3 N											
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS				RELINQUISHED BY		DATE/TIME		ACCEPTED BY		DATE/TIME									
This is the 2nd shipment for PIN12-01.1802002. There will be another shipment in a few days.				Shirley R. Brown 0700 St. Paul		3-6-18 0700		St. Paul Clyde A. Gomez		3-6-18 1240 3-7-18 1015									

Chain of Custody / Sample Submittal Form

Task Code:	PIN12-01.1802002	COC ID:	x2-PIN12-01.1802002-COC.4	TURNAROUND TIME:	28
PROJECT INFORMATION			LABORATORY		SAMPLING / SHIPPING
Facility Name:	Industrial Drain Leaks Bldg 100	Lab Name:	TestAmerica Denver	Shipping Company:	
Project Number:	1.101.1.06.509.2.01	Address:	4955 Yarrow Street	Tracking Number:	
Project Name:	Pinellas Bldg 100 Monitoring	City:	Arvada	State:	CO
		Postal Code:	80002	Cooler Count:	
		Phone Number:	303-736-0100	Date Shipped:	03/06/2018
		PO Number:	LMCP6283	Sampled by:	BaerCaballero GrahamTigar
				Sampler 2:	

SAMPLE DETAILS

ANALYSIS REQUESTED

Filtered - F: Field, L: Lab, FL: Field & Lab, N: None

Page 2492 of 2494

Sample ID	Location	Matrix	Date	Time (24hr)	G=Grab C=Comp	QC	# of Cont	Container	Filtered	Preserv.	ANALYSIS	1,4-Dioxane	VOAs		
PIN12-01.1802002-065	0584-2	GW	03/03/18	11:05	G		4	GLASS 40 ML	X	4 C, HCl		1 N	3 N		
PIN12-01.1802002-066	0584-3	GW	03/03/18	12:05	G		4	GLASS 40 ML	X	4 C, HCl		1 N	3 N		
PIN12-01.1802002-067	0585-1	GW	03/03/18	12:20	G		4					1 N	3 N		
PIN12-01.1802002-068	0585-2	GW	03/03/18	12:40	G		4					1 N	3 N		
PIN12-01.1802002-069	0585-3	GW	03/03/18	13:45	G		4					1 N	3 N		
PIN12-01.1802002-079	S30B	GW	03/02/18	11:00	G		4					1 N	3 N		
PIN12-01.1802002-080	S33C	GW	03/02/18	11:45	G		4					1 N	3 N		
PIN12-01.1802002-081	S35B	GW	03/02/18	12:30	G		4					1 N	3 N		
PIN12-01.1802002-082	S67B	GW	03/02/18	09:30	G		4					1 N	3 N		
PIN12-01.1802002-083	S67C	GW	03/02/18	10:10	G		4					1 N	3 N		
PIN12-01.1802002-084	S67D	GW	03/02/18	08:55	G		4					1 N	3 N		
PIN12-01.1802002-085	S68B	GW	03/02/18	15:50	G		4					1 N	3 N		
PIN12-01.1802002-086	S68C	GW	03/02/18	16:30	G		4					1 N	3 N		
PIN12-01.1802002-088	S69B	GW	03/05/18	08:30	G		4					1 N	3 N		
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS								RELINQUISHED BY		DATE/TIME		ACCEPTED BY		DATE/TIME	
This is the 2nd shipment for PIN12-01.1802002. There will be another shipment in a few days.								<i>[Signature]</i>		3/6/18 0900		<i>[Signature]</i>		3-6-18 1240	
								<i>[Signature]</i>		3-6-18 1700		<i>[Signature]</i>		3-7-18 1015	

[illegible]

Login Sample Receipt Checklist

Client: Navarro Research and Engineering, Inc

Job Number: 280-107174-1
SDG Number: PIN12-01.1802002

Login Number: 107174
List Number: 1
Creator: Gomez, Alyssa I

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	60
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	2.7
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 280-107263-1

SDG Number: PIN12-01.1802002

Job Description: PINELLAS BLDG 100 MONITORING

For:

Navarro Research and Engineering, Inc
2597 Legacy Way
Grand Junction, CO 81503
Attention: Mr. Steve Donovan



Approved for release.
DiLea R Bindel
Project Manager I
3/22/2018 3:40 PM

DiLea R Bindel, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0173
dilea.bindel@testamericainc.com
03/22/2018

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Pages have been deleted from this laboratory report file to reduce file size. The deleted pages contain raw data and instrument calibrations. If the full laboratory report is needed, contact Scott.Surovchak@lm.doe.gov

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CASE NARRATIVE

Client: Navarro Research and Engineering, Inc.

Project: PINELLAS BLDG 100 MONITORING - PIN12-01.1802002

Report Number: 280-107263-1

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

This report includes reporting limits (RLs) less than TestAmerica Denver's practical quantitation limits. These reporting limits are being used specifically at the client's request to meet the needs of this project. Please note that data are not normally reported to these levels without qualification, since they are inherently less reliable and potentially less defensible than required by the current NELAC standards.

Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 3/9/2018 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

GC/MS VOLATILES - SW846 8260B

Due to high concentrations of target analytes, some samples had to be analyzed at a dilution. The reporting limits have been elevated accordingly. To provide the lowest possible detection limits, multiple runs are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOLATILES - SW846 8260B SIM - 1,4-Dioxane

Due to high concentrations of target analytes, some samples had to be analyzed at a dilution. The reporting limits have been elevated accordingly. To provide the lowest possible detection limits, multiple runs are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DATA REPORTING QUALIFIERS

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Lab Section	Qualifier	Description
GC/MS VOA	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	U	Undetected at the Limit of Detection.

SAMPLE SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-107263-1TB	PIN12-01.1802002.107	Water	03/06/2018 0800	03/09/2018 0955
280-107263-2TB	PIN12-01.1802002.110	Water	03/06/2018 0800	03/09/2018 0955
280-107263-3	PIN12-01.1802002-005	Water	03/06/2018 1015	03/09/2018 0955
280-107263-3MS	PIN12-01.1802002-005	Water	03/06/2018 1015	03/09/2018 0955
280-107263-3MSD	PIN12-01.1802002-005	Water	03/06/2018 1015	03/09/2018 0955
280-107263-4	PIN12-01.1802002-006	Water	03/06/2018 1055	03/09/2018 0955
280-107263-4MS	PIN12-01.1802002-006	Water	03/06/2018 1055	03/09/2018 0955
280-107263-4MSD	PIN12-01.1802002-006	Water	03/06/2018 1055	03/09/2018 0955
280-107263-5	PIN12-01.1802002-007	Water	03/06/2018 1035	03/09/2018 0955
280-107263-6	PIN12-01.1802002-008	Water	03/07/2018 0800	03/09/2018 0955
280-107263-7	PIN12-01.1802002-010	Water	03/06/2018 0815	03/09/2018 0955
280-107263-8	PIN12-01.1802002-040	Water	03/07/2018 0830	03/09/2018 0955
280-107263-9	PIN12-01.1802002-041	Water	03/07/2018 0900	03/09/2018 0955
280-107263-10	PIN12-01.1802002-042	Water	03/07/2018 1020	03/09/2018 0955
280-107263-11	PIN12-01.1802002-046	Water	03/06/2018 0830	03/09/2018 0955
280-107263-12	PIN12-01.1802002-047	Water	03/06/2018 0900	03/09/2018 0955
280-107263-13	PIN12-01.1802002-048	Water	03/06/2018 0930	03/09/2018 0955
280-107263-14	PIN12-01.1802002-052	Water	03/07/2018 0805	03/09/2018 0955
280-107263-15	PIN12-01.1802002-053	Water	03/07/2018 0835	03/09/2018 0955
280-107263-16	PIN12-01.1802002-054	Water	03/07/2018 0930	03/09/2018 0955
280-107263-17	PIN12-01.1802002-070	Water	03/07/2018 1410	03/09/2018 0955
280-107263-18	PIN12-01.1802002-071	Water	03/07/2018 1115	03/09/2018 0955
280-107263-19	PIN12-01.1802002-073	Water	03/07/2018 1510	03/09/2018 0955
280-107263-20	PIN12-01.1802002-074	Water	03/07/2018 1530	03/09/2018 0955
280-107263-21	PIN12-01.1802002-076	Water	03/07/2018 1105	03/09/2018 0955
280-107263-22	PIN12-01.1802002-077	Water	03/07/2018 1350	03/09/2018 0955
280-107263-23	PIN12-01.1802002-078	Water	03/07/2018 1455	03/09/2018 0955
280-107263-24	PIN12-01.1802002-094	Water	03/06/2018 0900	03/09/2018 0955
280-107263-25	PIN12-01.1802002-095	Water	03/06/2018 0930	03/09/2018 0955
280-107263-26	PIN12-01.1802002-096	Water	03/07/2018 0955	03/09/2018 0955

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107263-1TB	PIN12-01.1802002.107					
Chloroform		0.33	J	1.0	ug/L	8260B
Methylene Chloride		3.6		1.0	ug/L	8260B
280-107263-2TB	PIN12-01.1802002.110					
Acetone		14		10	ug/L	8260B
Chloroform		0.34	J	1.0	ug/L	8260B
Methylene Chloride		3.8		1.0	ug/L	8260B
280-107263-3	PIN12-01.1802002-005					
1,1-Dichloroethane		0.68	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		1.1		1.0	ug/L	8260B
1,1-Dichloroethene		0.29	J	1.0	ug/L	8260B
Vinyl chloride		0.42	J	1.0	ug/L	8260B
1,4-Dioxane		1.3		1.0	ug/L	8260B SIM
280-107263-4	PIN12-01.1802002-006					
1,1-Dichloroethane		0.69	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		1.2		1.0	ug/L	8260B
1,1-Dichloroethene		0.32	J	1.0	ug/L	8260B
Vinyl chloride		0.29	J	1.0	ug/L	8260B
1,4-Dioxane		1.6		1.0	ug/L	8260B SIM
280-107263-5	PIN12-01.1802002-007					
Acetone		19		10	ug/L	8260B
1,1-Dichloroethane		0.57	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		0.47	J	1.0	ug/L	8260B
1,4-Dioxane		3.6		1.0	ug/L	8260B SIM
280-107263-6	PIN12-01.1802002-008					
1,1-Dichloroethane		0.69	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		0.18	J	1.0	ug/L	8260B
Vinyl chloride		6.6		1.0	ug/L	8260B
1,4-Dioxane		8.5		2.0	ug/L	8260B SIM
280-107263-7	PIN12-01.1802002-010					
1,1-Dichloroethane		3.2		1.0	ug/L	8260B
cis-1,2-Dichloroethene		0.16	J	1.0	ug/L	8260B
Vinyl chloride		1.3		1.0	ug/L	8260B
1,4-Dioxane		8.5		1.0	ug/L	8260B SIM

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107263-8	PIN12-01.1802002-040					
Chloroethane		0.77	J	1.0	ug/L	8260B
1,1-Dichloroethane		11		1.0	ug/L	8260B
cis-1,2-Dichloroethene		1.4		1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.38	J	1.0	ug/L	8260B
Toluene		0.18	J	1.0	ug/L	8260B
Vinyl chloride		7.7		1.0	ug/L	8260B
1,4-Dioxane		31		5.0	ug/L	8260B SIM
280-107263-9	PIN12-01.1802002-041					
1,1-Dichloroethane		16		1.0	ug/L	8260B
cis-1,2-Dichloroethene		2.6		1.0	ug/L	8260B
trans-1,2-Dichloroethene		0.66	J	1.0	ug/L	8260B
1,1-Dichloroethene		0.35	J	1.0	ug/L	8260B
Vinyl chloride		14		1.0	ug/L	8260B
1,4-Dioxane		28		5.0	ug/L	8260B SIM
280-107263-10	PIN12-01.1802002-042					
Acetone		50		10	ug/L	8260B
2-Butanone (MEK)		35		5.0	ug/L	8260B
cis-1,2-Dichloroethene		0.21	J	1.0	ug/L	8260B
1,4-Dioxane		3.3		1.0	ug/L	8260B SIM
280-107263-12	PIN12-01.1802002-047					
Acetone		10		10	ug/L	8260B
280-107263-13	PIN12-01.1802002-048					
Acetone		19		10	ug/L	8260B
280-107263-15	PIN12-01.1802002-053					
1,1-Dichloroethane		4.2		1.0	ug/L	8260B
cis-1,2-Dichloroethene		1.9		1.0	ug/L	8260B
trans-1,2-Dichloroethene		5.9		1.0	ug/L	8260B
Vinyl chloride		89		4.0	ug/L	8260B
1,4-Dioxane		150		20	ug/L	8260B SIM

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107263-16	PIN12-01.1802002-054					
Acetone		22		10	ug/L	8260B
1,1-Dichloroethane		3.4		1.0	ug/L	8260B
cis-1,2-Dichloroethene		16		1.0	ug/L	8260B
trans-1,2-Dichloroethene		3.4		1.0	ug/L	8260B
Vinyl chloride		40		1.0	ug/L	8260B
1,4-Dioxane		38		5.0	ug/L	8260B SIM
280-107263-17	PIN12-01.1802002-070					
Acetone		94		10	ug/L	8260B
2-Butanone (MEK)		22		5.0	ug/L	8260B
cis-1,2-Dichloroethene		0.21	J	1.0	ug/L	8260B
4-Methyl-2-pentanone		2.0	J	5.0	ug/L	8260B
Toluene		0.55	J	1.0	ug/L	8260B
Vinyl chloride		0.67	J	1.0	ug/L	8260B
280-107263-18	PIN12-01.1802002-071					
cis-1,2-Dichloroethene		0.73	J	1.0	ug/L	8260B
Toluene		0.21	J	1.0	ug/L	8260B
Vinyl chloride		8.6		1.0	ug/L	8260B
1,4-Dioxane		0.61	J	1.0	ug/L	8260B SIM
280-107263-19	PIN12-01.1802002-073					
trans-1,2-Dichloroethene		0.23	J	1.0	ug/L	8260B
Vinyl chloride		0.17	J	1.0	ug/L	8260B
1,4-Dioxane		0.47	J	1.0	ug/L	8260B SIM
280-107263-20	PIN12-01.1802002-074					
Benzene		0.86	J	4.0	ug/L	8260B
1,1-Dichloroethane		1.2	J	4.0	ug/L	8260B
cis-1,2-Dichloroethene		70		4.0	ug/L	8260B
trans-1,2-Dichloroethene		8.1		4.0	ug/L	8260B
1,1-Dichloroethene		1.1	J	4.0	ug/L	8260B
Toluene		0.95	J	4.0	ug/L	8260B
Vinyl chloride		540		40	ug/L	8260B
1,4-Dioxane		3.7		1.0	ug/L	8260B SIM
280-107263-21	PIN12-01.1802002-076					
Vinyl chloride		0.69	J	1.0	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1

Sdg Number: PIN12-01.1802002

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-107263-22	PIN12-01.1802002-077					
Acetone		22		10	ug/L	8260B
2-Butanone (MEK)		16		5.0	ug/L	8260B
1,1-Dichloroethane		0.29	J	1.0	ug/L	8260B
Methylene Chloride		0.58	J	1.0	ug/L	8260B
Toluene		0.27	J	1.0	ug/L	8260B
Vinyl chloride		2.2		1.0	ug/L	8260B
1,4-Dioxane		4.8		1.0	ug/L	8260B SIM
280-107263-23	PIN12-01.1802002-078					
Vinyl chloride		0.66	J	1.0	ug/L	8260B
1,4-Dioxane		0.44	J	1.0	ug/L	8260B SIM
280-107263-25	PIN12-01.1802002-095					
1,1-Dichloroethane		1.4		1.0	ug/L	8260B
cis-1,2-Dichloroethene		1.3		1.0	ug/L	8260B
trans-1,2-Dichloroethene		1.7		1.0	ug/L	8260B
Vinyl chloride		15		1.0	ug/L	8260B
1,4-Dioxane		16		1.0	ug/L	8260B SIM
280-107263-26	PIN12-01.1802002-096					
Acetone		15		10	ug/L	8260B
1,1-Dichloroethane		1.0		1.0	ug/L	8260B
cis-1,2-Dichloroethene		2.2		1.0	ug/L	8260B
trans-1,2-Dichloroethene		1.8		1.0	ug/L	8260B
Vinyl chloride		22		1.0	ug/L	8260B
1,4-Dioxane		10		1.0	ug/L	8260B SIM

METHOD SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Volatile Organic Compounds (GC/MS-SIM)	TAL DEN	SW846 8260B SIM	
Purge and Trap	TAL DEN		SW846 5030B

Lab References:

TAL DEN = TestAmerica Denver

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Method	Analyst	Analyst ID
SW846 8260B	Lines, Jeremy N	JNL
SW846 8260B	Seifert, Judy L	JLS
SW846 8260B SIM	Moan, Matthew R	MRM

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.107

Lab Sample ID: 280-107263-1TB
Client Matrix: Water

Date Sampled: 03/06/2018 0800
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7266.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2132			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2132				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.33	J	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	3.6		0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.107

Lab Sample ID: 280-107263-1TB
Client Matrix: Water

Date Sampled: 03/06/2018 0800
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7266.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2132			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2132				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 127
Toluene-d8 (Surr)	110		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	98		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002**Client Sample ID: PIN12-01.1802002.110**Lab Sample ID: 280-107263-2TB
Client Matrix: WaterDate Sampled: 03/06/2018 0800
Date Received: 03/09/2018 0955**8260B Volatile Organic Compounds (GC/MS)**

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7267.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2151			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2151				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	14		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.34	J	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	3.8		0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002.110

Lab Sample ID: 280-107263-2TB
Client Matrix: Water

Date Sampled: 03/06/2018 0800
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7267.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2151			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2151				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	103		80 - 125
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-005

Lab Sample ID: 280-107263-3
Client Matrix: Water

Date Sampled: 03/06/2018 1015
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7268.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2210			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2210				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.68	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	1.1		0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.29	J	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-005

Lab Sample ID: 280-107263-3
Client Matrix: Water

Date Sampled: 03/06/2018 1015
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7268.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2210			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2210				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.42	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
Toluene-d8 (Surr)	100		80 - 125
4-Bromofluorobenzene (Surr)	90		78 - 120
Dibromofluoromethane (Surr)	98		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-006

Lab Sample ID: 280-107263-4
Client Matrix: Water

Date Sampled: 03/06/2018 1055
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7271.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2308			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2308				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.69	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	1.2		0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.32	J	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-006

Lab Sample ID: 280-107263-4
Client Matrix: Water

Date Sampled: 03/06/2018 1055
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7271.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2308			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2308				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.29	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	101		80 - 125
4-Bromofluorobenzene (Surr)	90		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-007

Lab Sample ID: 280-107263-5
Client Matrix: Water

Date Sampled: 03/06/2018 1035
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7272.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2327			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2327				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	19		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.57	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.47	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-007

Lab Sample ID: 280-107263-5
Client Matrix: Water

Date Sampled: 03/06/2018 1035
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7272.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2327			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2327				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Toluene-d8 (Surr)	101		80 - 125
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-008

Lab Sample ID: 280-107263-6
Client Matrix: Water

Date Sampled: 03/07/2018 0800
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7273.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2346			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2346				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.69	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.18	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-008

Lab Sample ID: 280-107263-6
Client Matrix: Water

Date Sampled: 03/07/2018 0800
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7273.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2346			Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2346				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	6.6		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	103		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-010

Lab Sample ID: 280-107263-7
Client Matrix: Water

Date Sampled: 03/06/2018 0815
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7274.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0005			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0005				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	3.2		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.16	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-010

Lab Sample ID: 280-107263-7
Client Matrix: Water

Date Sampled: 03/06/2018 0815
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7274.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0005			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0005				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	1.3		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
Toluene-d8 (Surr)	102		80 - 125
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-040

Lab Sample ID: 280-107263-8
Client Matrix: Water

Date Sampled: 03/07/2018 0830
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7275.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0024			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0024				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.77	J	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	11		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	1.4		0.15	1.0
trans-1,2-Dichloroethene	0.38	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-040

Lab Sample ID: 280-107263-8
Client Matrix: Water

Date Sampled: 03/07/2018 0830
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7275.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0024			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0024				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.18	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	7.7		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	89		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-041

Lab Sample ID: 280-107263-9
Client Matrix: Water

Date Sampled: 03/07/2018 0900
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7276.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0044			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0044				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	16		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	2.6		0.15	1.0
trans-1,2-Dichloroethene	0.66	J	0.15	1.0
1,1-Dichloroethene	0.35	J	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-041

Lab Sample ID: 280-107263-9
Client Matrix: Water

Date Sampled: 03/07/2018 0900
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7276.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0044			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0044				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	14		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	103		80 - 125
4-Bromofluorobenzene (Surr)	88		78 - 120
Dibromofluoromethane (Surr)	108		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-042

Lab Sample ID: 280-107263-10
Client Matrix: Water

Date Sampled: 03/07/2018 1020
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7277.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0103			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0103				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	50		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	35		2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.21	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-042

Lab Sample ID: 280-107263-10
Client Matrix: Water

Date Sampled: 03/07/2018 1020
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7277.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0103			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0103				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	84		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-046

Lab Sample ID: 280-107263-11
Client Matrix: Water

Date Sampled: 03/06/2018 0830
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7278.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0122			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0122				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-046

Lab Sample ID: 280-107263-11
Client Matrix: Water

Date Sampled: 03/06/2018 0830
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7278.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0122			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0122				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	100		80 - 125
4-Bromofluorobenzene (Surr)	83		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-047

Lab Sample ID: 280-107263-12
Client Matrix: Water

Date Sampled: 03/06/2018 0900
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7279.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0141			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0141				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	10		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-047

Lab Sample ID: 280-107263-12
Client Matrix: Water

Date Sampled: 03/06/2018 0900
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7279.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0141			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0141				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	87		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-048

Lab Sample ID: 280-107263-13
Client Matrix: Water

Date Sampled: 03/06/2018 0930
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7280.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0200			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0200				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	19		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-048

Lab Sample ID: 280-107263-13
Client Matrix: Water

Date Sampled: 03/06/2018 0930
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7280.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0200			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0200				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	83		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-052

Lab Sample ID: 280-107263-14
Client Matrix: Water

Date Sampled: 03/07/2018 0805
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7281.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0219			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0219				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-052

Lab Sample ID: 280-107263-14
Client Matrix: Water

Date Sampled: 03/07/2018 0805
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7281.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0219			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0219				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	84		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-053

Lab Sample ID: 280-107263-15
Client Matrix: Water

Date Sampled: 03/07/2018 0835
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7282.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0238			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0238				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	4.2		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	1.9		0.15	1.0
trans-1,2-Dichloroethene	5.9		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-053

Lab Sample ID: 280-107263-15
Client Matrix: Water

Date Sampled: 03/07/2018 0835
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7282.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0238			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0238				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	83		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-053

Lab Sample ID: 280-107263-15
Client Matrix: Water

Date Sampled: 03/07/2018 0835
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7283.D
Dilution:	4.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0258	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0258				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Vinyl chloride	89		0.40	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	85		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-054

Lab Sample ID: 280-107263-16
Client Matrix: Water

Date Sampled: 03/07/2018 0930
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7284.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0317			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0317				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	22		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	3.4		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	16		0.15	1.0
trans-1,2-Dichloroethene	3.4		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-054

Lab Sample ID: 280-107263-16
Client Matrix: Water

Date Sampled: 03/07/2018 0930
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R7284.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 0317			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 0317				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	40		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	82		78 - 120
Dibromofluoromethane (Surr)	99		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-070

Lab Sample ID: 280-107263-17
Client Matrix: Water

Date Sampled: 03/07/2018 1410
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4583.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1556			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1556				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	94		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	22		2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.21	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	2.0	J	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-070

Lab Sample ID: 280-107263-17
Client Matrix: Water

Date Sampled: 03/07/2018 1410
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4583.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1556			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1556				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.55	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.67	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	108		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-071

Lab Sample ID: 280-107263-18
Client Matrix: Water

Date Sampled: 03/07/2018 1115
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4584.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1616			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1616				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.73	J	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-071

Lab Sample ID: 280-107263-18
Client Matrix: Water

Date Sampled: 03/07/2018 1115
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4584.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1616			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1616				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.21	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	8.6		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	107		80 - 125
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-073

Lab Sample ID: 280-107263-19
Client Matrix: Water

Date Sampled: 03/07/2018 1510
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4585.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1635			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1635				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.23	J	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-073

Lab Sample ID: 280-107263-19
Client Matrix: Water

Date Sampled: 03/07/2018 1510
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4585.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1635			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1635				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.17	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 127
Toluene-d8 (Surr)	100		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	95		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-074

Lab Sample ID: 280-107263-20
Client Matrix: Water

Date Sampled: 03/07/2018 1530
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4586.D
Dilution:	4.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1654			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1654				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	7.6	U	7.6	40
Benzene	0.86	J	0.64	4.0
Bromobenzene	0.68	U	0.68	4.0
Bromochloromethane	0.40	U	0.40	4.0
Bromodichloromethane	0.68	U	0.68	4.0
Bromoform	0.76	U	0.76	4.0
Bromomethane	0.84	U	0.84	4.0
2-Butanone (MEK)	8.0	U	8.0	20
n-Butylbenzene	1.3	U	1.3	4.0
sec-Butylbenzene	0.68	U	0.68	4.0
tert-Butylbenzene	0.64	U	0.64	4.0
Carbon disulfide	1.8	U	1.8	4.0
Carbon tetrachloride	0.76	U	0.76	4.0
Chlorobenzene	0.68	U	0.68	4.0
Dibromochloromethane	0.68	U	0.68	4.0
Chloroethane	1.6	U	1.6	4.0
Chloroform	0.64	U	0.64	4.0
Chloromethane	1.2	U	1.2	4.0
2-Chlorotoluene	0.68	U	0.68	4.0
4-Chlorotoluene	0.84	U	0.84	4.0
1,2-Dibromo-3-Chloropropane	1.9	U	1.9	4.0
Dibromomethane	0.68	U	0.68	4.0
1,2-Dichlorobenzene	0.60	U	0.60	4.0
1,3-Dichlorobenzene	0.52	U	0.52	4.0
1,4-Dichlorobenzene	0.64	U	0.64	4.0
Dichlorodifluoromethane	1.2	U	1.2	4.0
1,1-Dichloroethane	1.2	J	0.88	4.0
1,2-Dichloroethane	0.52	U	0.52	4.0
cis-1,2-Dichloroethene	70		0.60	4.0
trans-1,2-Dichloroethene	8.1		0.60	4.0
1,1-Dichloroethene	1.1	J	0.92	4.0
1,2-Dichloropropane	0.72	U	0.72	4.0
1,3-Dichloropropane	0.88	U	0.88	4.0
2,2-Dichloropropane	0.72	U	0.72	4.0
cis-1,3-Dichloropropene	0.64	U	0.64	4.0
trans-1,3-Dichloropropene	0.76	U	0.76	4.0
1,1-Dichloropropene	0.76	U	0.76	4.0
Ethylbenzene	0.64	U	0.64	4.0
Hexachlorobutadiene	1.4	U	1.4	4.0
2-Hexanone	6.8	U	6.8	20
Isopropylbenzene	0.76	U	0.76	4.0
4-Isopropyltoluene	0.80	U	0.80	4.0
Methylene Chloride	1.3	U	1.3	4.0
4-Methyl-2-pentanone	3.9	U	3.9	20
Naphthalene	0.88	U	0.88	4.0
n-Propylbenzene	0.64	U	0.64	4.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-074

Lab Sample ID: 280-107263-20
Client Matrix: Water

Date Sampled: 03/07/2018 1530
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4586.D
Dilution:	4.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1654			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1654				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.68	U	0.68	4.0
1,1,1,2-Tetrachloroethane	0.84	U	0.84	4.0
1,1,2,2-Tetrachloroethane	0.84	U	0.84	4.0
Tetrachloroethene	0.80	U	0.80	4.0
Toluene	0.95	J	0.68	4.0
1,2,3-Trichlorobenzene	0.84	U	0.84	4.0
1,2,4-Trichlorobenzene	0.84	U	0.84	4.0
1,1,1-Trichloroethane	0.64	U	0.64	4.0
1,1,2-Trichloroethane	1.1	U	1.1	4.0
Trichloroethene	0.64	U	0.64	4.0
Trichlorofluoromethane	1.2	U	1.2	4.0
1,2,3-Trichloropropane	1.3	U	1.3	4.0
1,2,4-Trimethylbenzene	0.60	U	0.60	4.0
1,3,5-Trimethylbenzene	0.64	U	0.64	4.0
Xylenes, Total	0.76	U	0.76	4.0
1,2-Dibromoethane	0.72	U	0.72	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 127
Toluene-d8 (Surr)	105		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-074

Lab Sample ID: 280-107263-20
Client Matrix: Water

Date Sampled: 03/07/2018 1530
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4587.D
Dilution:	40			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1713	Run Type:	DL	Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1713				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Vinyl chloride	540		4.0	40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
Toluene-d8 (Surr)	103		80 - 125
4-Bromofluorobenzene (Surr)	89		78 - 120
Dibromofluoromethane (Surr)	97		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-076

Lab Sample ID: 280-107263-21
Client Matrix: Water

Date Sampled: 03/07/2018 1105
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4588.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1733			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1733				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-076

Lab Sample ID: 280-107263-21
Client Matrix: Water

Date Sampled: 03/07/2018 1105
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4588.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1733			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1733				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.69	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 127
Toluene-d8 (Surr)	104		80 - 125
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	99		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-077

Lab Sample ID: 280-107263-22
Client Matrix: Water

Date Sampled: 03/07/2018 1350
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4589.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1752			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1752				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	22		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	16		2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.29	J	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.58	J	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-077

Lab Sample ID: 280-107263-22
Client Matrix: Water

Date Sampled: 03/07/2018 1350
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4589.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1752			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1752				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.27	J	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	2.2		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 127
Toluene-d8 (Surr)	108		80 - 125
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-078

Lab Sample ID: 280-107263-23
Client Matrix: Water

Date Sampled: 03/07/2018 1455
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4590.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1811			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1811				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-078

Lab Sample ID: 280-107263-23
Client Matrix: Water

Date Sampled: 03/07/2018 1455
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4590.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1811			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1811				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.66	J	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	89		78 - 120
Dibromofluoromethane (Surr)	95		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-094

Lab Sample ID: 280-107263-24
Client Matrix: Water

Date Sampled: 03/06/2018 0900
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4591.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1831			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1831				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-094

Lab Sample ID: 280-107263-24
Client Matrix: Water

Date Sampled: 03/06/2018 0900
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4591.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1831			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1831				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 127
Toluene-d8 (Surr)	91		80 - 125
4-Bromofluorobenzene (Surr)	87		78 - 120
Dibromofluoromethane (Surr)	94		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-095

Lab Sample ID: 280-107263-25
Client Matrix: Water

Date Sampled: 03/06/2018 0930
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4592.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1850			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1850				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	1.4		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	1.3		0.15	1.0
trans-1,2-Dichloroethene	1.7		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-095

Lab Sample ID: 280-107263-25
Client Matrix: Water

Date Sampled: 03/06/2018 0930
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4592.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1850			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1850				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	15		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	82		78 - 120
Dibromofluoromethane (Surr)	96		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-096

Lab Sample ID: 280-107263-26
Client Matrix: Water

Date Sampled: 03/07/2018 0955
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4593.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1910			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1910				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acetone	15		1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	1.0		0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	2.2		0.15	1.0
trans-1,2-Dichloroethene	1.8		0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-096

Lab Sample ID: 280-107263-26
Client Matrix: Water

Date Sampled: 03/07/2018 0955
Date Received: 03/09/2018 0955

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P4593.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1910			Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1910				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	22		0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	90		78 - 120
Dibromofluoromethane (Surr)	95		77 - 120

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-005

Lab Sample ID: 280-107263-3
Client Matrix: Water

Date Sampled: 03/06/2018 1015
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8026.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 1442			Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 1442				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.3		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	119		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-006

Lab Sample ID: 280-107263-4
Client Matrix: Water

Date Sampled: 03/06/2018 1055
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8011.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 0959			Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 0959				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	1.6		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	119		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-007

Lab Sample ID: 280-107263-5
Client Matrix: Water

Date Sampled: 03/06/2018 1035
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8037.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 1800			Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 1800				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.6		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	123		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-008

Lab Sample ID: 280-107263-6
Client Matrix: Water

Date Sampled: 03/07/2018 0800
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8054.D
Dilution:	2.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1038			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1038				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	8.5		0.44	2.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	120		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-010

Lab Sample ID: 280-107263-7
Client Matrix: Water

Date Sampled: 03/06/2018 0815
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8028.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 1518			Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 1518				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	8.5		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	113		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-040

Lab Sample ID: 280-107263-8
Client Matrix: Water

Date Sampled: 03/07/2018 0830
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8055.D
Dilution:	5.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1056			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1056				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	31		1.1	5.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	115		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-041

Lab Sample ID: 280-107263-9
Client Matrix: Water

Date Sampled: 03/07/2018 0900
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8056.D
Dilution:	5.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1114			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1114				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	28		1.1	5.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	113		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-042

Lab Sample ID: 280-107263-10
Client Matrix: Water

Date Sampled: 03/07/2018 1020
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8057.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1132			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1132				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.3		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	115		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-046

Lab Sample ID: 280-107263-11
Client Matrix: Water

Date Sampled: 03/06/2018 0830
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8029.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 1536			Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 1536				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-047

Lab Sample ID: 280-107263-12
Client Matrix: Water

Date Sampled: 03/06/2018 0900
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8030.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 1554			Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 1554				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-048

Lab Sample ID: 280-107263-13
Client Matrix: Water

Date Sampled: 03/06/2018 0930
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8031.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 1612			Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 1612				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	114		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-052

Lab Sample ID: 280-107263-14
Client Matrix: Water

Date Sampled: 03/07/2018 0805
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8058.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1150			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1150				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	111		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-053

Lab Sample ID: 280-107263-15
Client Matrix: Water

Date Sampled: 03/07/2018 0835
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8059.D
Dilution:	20			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1208			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1208				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	150		4.4	20
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	112		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-054

Lab Sample ID: 280-107263-16
Client Matrix: Water

Date Sampled: 03/07/2018 0930
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8060.D
Dilution:	5.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1226			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1226				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	38		1.1	5.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	117		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-070

Lab Sample ID: 280-107263-17
Client Matrix: Water

Date Sampled: 03/07/2018 1410
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8061.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1244			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1244				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	123		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-071

Lab Sample ID: 280-107263-18
Client Matrix: Water

Date Sampled: 03/07/2018 1115
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8062.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1302			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1302				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.61	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	111		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-073

Lab Sample ID: 280-107263-19
Client Matrix: Water

Date Sampled: 03/07/2018 1510
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8063.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1320			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1320				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.47	J	0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	119		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-074

Lab Sample ID: 280-107263-20
Client Matrix: Water

Date Sampled: 03/07/2018 1530
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8064.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1338			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1338				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	3.7		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	113		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-076

Lab Sample ID: 280-107263-21
Client Matrix: Water

Date Sampled: 03/07/2018 1105
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8065.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1356			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1356				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-077

Lab Sample ID: 280-107263-22
Client Matrix: Water

Date Sampled: 03/07/2018 1350
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8066.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1414			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1414				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	4.8		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	108		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-078

Lab Sample ID: 280-107263-23
Client Matrix: Water

Date Sampled: 03/07/2018 1455
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8067.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1432			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1432				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.44	J	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-094

Lab Sample ID: 280-107263-24
Client Matrix: Water

Date Sampled: 03/06/2018 0900
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8032.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 1630			Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 1630				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 127

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-095

Lab Sample ID: 280-107263-25
Client Matrix: Water

Date Sampled: 03/06/2018 0930
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8033.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 1648			Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 1648				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	16		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	124		70 - 127	

Analytical Data

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Client Sample ID: PIN12-01.1802002-096

Lab Sample ID: 280-107263-26
Client Matrix: Water

Date Sampled: 03/07/2018 0955
Date Received: 03/09/2018 0955

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Analysis Method:	8260B SIM	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E8068.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 1450			Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 1450				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,4-Dioxane	10		0.22	1.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	117		70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-107263-1	PIN12-01.1802002.107	98	90	110	97
280-107263-2	PIN12-01.1802002.110	104	99	103	95
280-107263-3	PIN12-01.1802002-005	98	93	100	90
280-107263-4	PIN12-01.1802002-006	103	99	101	90
280-107263-5	PIN12-01.1802002-007	105	102	101	92
280-107263-6	PIN12-01.1802002-008	105	103	103	94
280-107263-7	PIN12-01.1802002-010	106	104	102	93
280-107263-8	PIN12-01.1802002-040	102	98	96	89
280-107263-9	PIN12-01.1802002-041	108	103	103	88
280-107263-10	PIN12-01.1802002-042	103	102	96	84
280-107263-11	PIN12-01.1802002-046	105	103	100	83
280-107263-12	PIN12-01.1802002-047	103	101	97	87
280-107263-13	PIN12-01.1802002-048	105	106	99	83
280-107263-14	PIN12-01.1802002-052	105	104	98	84
280-107263-15	PIN12-01.1802002-053	102	100	96	83
280-107263-15 DL	PIN12-01.1802002-053 DL	105	103	98	85
280-107263-16	PIN12-01.1802002-054	99	96	94	82
280-107263-17	PIN12-01.1802002-070	102	99	108	94

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-107263-18	PIN12-01.1802002-07 1	101	96	107	96
280-107263-19	PIN12-01.1802002-07 3	95	92	100	94
280-107263-20	PIN12-01.1802002-07 4	101	95	105	97
280-107263-20 DL	PIN12-01.1802002-07 4 DL	97	93	103	89
280-107263-21	PIN12-01.1802002-07 6	99	94	104	101
280-107263-22	PIN12-01.1802002-07 7	101	94	108	98
280-107263-23	PIN12-01.1802002-07 8	95	91	97	89
280-107263-24	PIN12-01.1802002-09 4	94	89	91	87
280-107263-25	PIN12-01.1802002-09 5	96	91	97	82
280-107263-26	PIN12-01.1802002-09 6	95	94	96	90
MB 280-407784/6		102	101	95	89
MB 280-407821/6		108	103	117	105
LCS 280-407784/4		101	98	97	85
LCS 280-407821/4		93	85	105	113
LCSD 280-407821/5		102	98	111	99
280-107263-3 MS	PIN12-01.1802002-00 5 MS	100	94	101	88
280-107262-F-2 MS		100	96	100	94
280-107263-3 MSD	PIN12-01.1802002-00 5 MSD	100	98	99	86
280-107262-F-2 MSD		102	96	107	98

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec
280-107263-3	PIN12-01.1802002-00 5	119
280-107263-4	PIN12-01.1802002-00 6	119
280-107263-5	PIN12-01.1802002-00 7	123
280-107263-6	PIN12-01.1802002-00 8	120
280-107263-7	PIN12-01.1802002-01 0	113
280-107263-8	PIN12-01.1802002-04 0	115
280-107263-9	PIN12-01.1802002-04 1	113
280-107263-10	PIN12-01.1802002-04 2	115
280-107263-11	PIN12-01.1802002-04 6	113
280-107263-12	PIN12-01.1802002-04 7	119
280-107263-13	PIN12-01.1802002-04 8	114
280-107263-14	PIN12-01.1802002-05 2	111
280-107263-15	PIN12-01.1802002-05 3	112
280-107263-16	PIN12-01.1802002-05 4	117
280-107263-17	PIN12-01.1802002-07 0	123
280-107263-18	PIN12-01.1802002-07 1	111
280-107263-19	PIN12-01.1802002-07 3	119
280-107263-20	PIN12-01.1802002-07 4	113

Surrogate

DCA = 1,2-Dichloroethane-d4 (Surr)

Acceptance Limits

70-127

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Surrogate Recovery Report

8260B SIM Volatile Organic Compounds (GC/MS-SIM)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec
280-107263-21	PIN12-01.1802002-07 6	113
280-107263-22	PIN12-01.1802002-07 7	108
280-107263-23	PIN12-01.1802002-07 8	112
280-107263-24	PIN12-01.1802002-09 4	112
280-107263-25	PIN12-01.1802002-09 5	124
280-107263-26	PIN12-01.1802002-09 6	117
MB 280-408256/5		104
MB 280-408274/5		110
LCS 280-408256/3		110
LCS 280-408274/3		112
280-107263-4 MS	PIN12-01.1802002-00 6 MS	114
280-107178-C-12 MS		112
280-107263-4 MSD	PIN12-01.1802002-00 6 MSD	118
280-107178-C-12 MSD		114

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407784

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 280-407784/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 2110
Prep Date: 03/13/2018 2110
Leach Date: N/A

Analysis Batch: 280-407784
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_R1
Lab File ID: R7265.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407784

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 280-407784/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 2110
Prep Date: 03/13/2018 2110
Leach Date: N/A

Analysis Batch: 280-407784
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_R1
Lab File ID: R7265.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	70 - 127
Toluene-d8 (Surr)	95	80 - 125
4-Bromofluorobenzene (Surr)	89	78 - 120
Dibromofluoromethane (Surr)	102	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Lab Control Sample - Batch: 280-407784

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-407784/4	Analysis Batch:	280-407784	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R7264.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2018 2051	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/13/2018 2051				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	5.00	5.25	105	65 - 135	
Bromodichloromethane	5.00	5.06	101	65 - 135	
Carbon tetrachloride	5.00	6.08	122	65 - 135	
Chlorobenzene	5.00	5.34	107	65 - 135	
Chloroform	5.00	5.27	105	65 - 135	
1,3-Dichlorobenzene	5.00	5.37	107	65 - 135	
1,1-Dichloroethane	5.00	5.24	105	65 - 135	
trans-1,2-Dichloroethene	5.00	5.62	112	65 - 135	
1,1-Dichloroethene	5.00	5.48	110	65 - 136	
1,2-Dichloropropane	5.00	4.95	99	64 - 135	
Ethylbenzene	5.00	5.43	109	65 - 135	
Methylene Chloride	5.00	5.12	102	54 - 141	
Tetrachloroethene	5.00	5.75	115	65 - 135	
Toluene	5.00	5.27	105	65 - 135	
1,1,1-Trichloroethane	5.00	5.89	118	65 - 135	
Trichloroethene	5.00	5.23	105	65 - 135	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	98		70 - 127		
Toluene-d8 (Surr)	97		80 - 125		
4-Bromofluorobenzene (Surr)	85		78 - 120		
Dibromofluoromethane (Surr)	101		77 - 120		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407784

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-107263-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 2229
Prep Date: 03/13/2018 2229
Leach Date: N/A

Analysis Batch: 280-407784
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_R1
Lab File ID: R7269.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

MSD Lab Sample ID: 280-107263-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 2249
Prep Date: 03/13/2018 2249
Leach Date: N/A

Analysis Batch: 280-407784
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: VMS_R1
Lab File ID: R7270.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	104	103	65 - 135	1	20		
Bromodichloromethane	99	101	65 - 135	2	20		
Carbon tetrachloride	125	117	65 - 135	7	21		
Chlorobenzene	107	105	65 - 135	1	20		
Chloroform	106	105	65 - 135	1	20		
1,3-Dichlorobenzene	110	106	65 - 135	3	20		
1,1-Dichloroethane	106	103	65 - 135	2	21		
trans-1,2-Dichloroethene	114	109	65 - 135	4	24		
1,1-Dichloroethene	110	105	65 - 136	4	20		
1,2-Dichloropropane	97	96	64 - 135	0	20		
Ethylbenzene	112	107	65 - 135	5	20		
Methylene Chloride	98	99	54 - 141	1	26		
Tetrachloroethene	119	113	65 - 135	5	20		
Toluene	106	104	65 - 135	2	20		
1,1,1-Trichloroethane	120	114	65 - 135	5	20		
Trichloroethene	104	102	65 - 135	2	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	94		98		70 - 127		
Toluene-d8 (Surr)	101		99		80 - 125		
4-Bromofluorobenzene (Surr)	88		86		78 - 120		
Dibromofluoromethane (Surr)	100		100		77 - 120		

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-407784**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 280-107263-3 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 2229
Prep Date: 03/13/2018 2229
Leach Date: N/A

MSD Lab Sample ID: 280-107263-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/13/2018 2249
Prep Date: 03/13/2018 2249
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	0.16	U	5.00	5.00	5.21	5.14
Bromodichloromethane	0.17	U	5.00	5.00	4.93	5.04
Carbon tetrachloride	0.19	U	5.00	5.00	6.27	5.86
Chlorobenzene	0.17	U	5.00	5.00	5.33	5.26
Chloroform	0.16	U	5.00	5.00	5.30	5.25
1,3-Dichlorobenzene	0.13	U	5.00	5.00	5.49	5.32
1,1-Dichloroethane	0.68	J	5.00	5.00	5.96	5.83
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	5.70	5.46
1,1-Dichloroethene	0.29	J	5.00	5.00	5.79	5.54
1,2-Dichloropropane	0.18	U	5.00	5.00	4.83	4.82
Ethylbenzene	0.16	U	5.00	5.00	5.59	5.33
Methylene Chloride	0.32	U	5.00	5.00	4.91	4.96
Tetrachloroethene	0.20	U	5.00	5.00	5.95	5.65
Toluene	0.17	U	5.00	5.00	5.30	5.19
1,1,1-Trichloroethane	0.16	U	5.00	5.00	6.01	5.72
Trichloroethene	0.16	U	5.00	5.00	5.20	5.10

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407821

Method: 8260B Preparation: 5030B

Lab Sample ID: MB 280-407821/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/14/2018 1112
Prep Date: 03/14/2018 1112
Leach Date: N/A

Analysis Batch: 280-407821
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: VMS_P
Lab File ID: P4569.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	1.0
2-Butanone (MEK)	2.0	U	2.0	5.0
n-Butylbenzene	0.32	U	0.32	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
Carbon disulfide	0.45	U	0.45	1.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	1.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	1.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	1.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	1.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Naphthalene	0.22	U	0.22	1.0

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-407821

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-407821/6	Analysis Batch:	280-407821	Instrument ID:	VMS_P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P4569.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2018 1112	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/14/2018 1112				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
n-Propylbenzene	0.16	U	0.16	1.0
Styrene	0.17	U	0.17	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	1.0
1,2,3-Trichloropropane	0.33	U	0.33	1.0
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	1.0
1,2-Dibromoethane	0.18	U	0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	70 - 127
Toluene-d8 (Surr)	117	80 - 125
4-Bromofluorobenzene (Surr)	105	78 - 120
Dibromofluoromethane (Surr)	108	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-407821

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 280-407821/4	Analysis Batch: 280-407821	Instrument ID: VMS_P
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P4568.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/14/2018 1052	Units: ug/L	Final Weight/Volume: 20 mL
Prep Date: 03/14/2018 1052		20 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 280-407821/5	Analysis Batch: 280-407821	Instrument ID: VMS_P
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P4570.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/14/2018 1132	Units: ug/L	Final Weight/Volume: 20 mL
Prep Date: 03/14/2018 1132		20 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	105	107	65 - 135	1	20		
Bromodichloromethane	103	105	65 - 135	1	20		
Carbon tetrachloride	103	99	65 - 135	4	21		
Chlorobenzene	105	106	65 - 135	1	20		
Chloroform	100	98	65 - 135	1	20		
1,3-Dichlorobenzene	106	103	65 - 135	3	20		
1,1-Dichloroethane	100	101	65 - 135	1	21		
trans-1,2-Dichloroethene	103	104	65 - 135	1	24		
1,1-Dichloroethene	99	95	65 - 136	5	20		
1,2-Dichloropropane	106	106	64 - 135	1	20		
Ethylbenzene	105	106	65 - 135	1	20		
Methylene Chloride	98	99	54 - 141	0	26		
Tetrachloroethene	107	108	65 - 135	1	20		
Toluene	108	109	65 - 135	1	20		
1,1,1-Trichloroethane	98	96	65 - 135	3	20		
Trichloroethene	100	101	65 - 135	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	85	98	70 - 127
Toluene-d8 (Surr)	105	111	80 - 125
4-Bromofluorobenzene (Surr)	113	99	78 - 120
Dibromofluoromethane (Surr)	93	102	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-407821

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 280-407821/4 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/14/2018 1052
Prep Date: 03/14/2018 1052
Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-407821/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/14/2018 1132
Prep Date: 03/14/2018 1132
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	5.00	5.00	5.27	5.34
Bromodichloromethane	5.00	5.00	5.17	5.23
Carbon tetrachloride	5.00	5.00	5.16	4.96
Chlorobenzene	5.00	5.00	5.24	5.29
Chloroform	5.00	5.00	4.99	4.92
1,3-Dichlorobenzene	5.00	5.00	5.28	5.15
1,1-Dichloroethane	5.00	5.00	4.98	5.03
trans-1,2-Dichloroethene	5.00	5.00	5.16	5.21
1,1-Dichloroethene	5.00	5.00	4.97	4.75
1,2-Dichloropropane	5.00	5.00	5.29	5.32
Ethylbenzene	5.00	5.00	5.24	5.32
Methylene Chloride	5.00	5.00	4.92	4.93
Tetrachloroethene	5.00	5.00	5.34	5.38
Toluene	5.00	5.00	5.40	5.47
1,1,1-Trichloroethane	5.00	5.00	4.92	4.78
Trichloroethene	5.00	5.00	4.99	5.06

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407821

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-107262-F-2 MS	Analysis Batch: 280-407821	Instrument ID: VMS_P
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P4574.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/14/2018 1302		Final Weight/Volume: 20 mL
Prep Date: 03/14/2018 1302		
Leach Date: N/A		

MSD Lab Sample ID: 280-107262-F-2 MSD	Analysis Batch: 280-407821	Instrument ID: VMS_P
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P4575.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/14/2018 1322		Final Weight/Volume: 20 mL
Prep Date: 03/14/2018 1322		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	101	103	65 - 135	1	20		
Bromodichloromethane	99	101	65 - 135	2	20		
Carbon tetrachloride	96	97	65 - 135	1	21		
Chlorobenzene	96	100	65 - 135	5	20		
Chloroform	97	97	65 - 135	0	20		
1,3-Dichlorobenzene	95	97	65 - 135	3	20		
1,1-Dichloroethane	96	98	65 - 135	2	21		
trans-1,2-Dichloroethene	97	102	65 - 135	4	24		
1,1-Dichloroethene	92	96	65 - 136	4	20		
1,2-Dichloropropane	101	103	64 - 135	2	20		
Ethylbenzene	95	99	65 - 135	4	20		
Methylene Chloride	92	96	54 - 141	3	26		
Tetrachloroethene	98	100	65 - 135	2	20		
Toluene	104	107	65 - 135	3	20		
1,1,1-Trichloroethane	93	94	65 - 135	1	20		
Trichloroethene	94	97	65 - 135	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	96	70 - 127
Toluene-d8 (Surr)	100	107	80 - 125
4-Bromofluorobenzene (Surr)	94	98	78 - 120
Dibromofluoromethane (Surr)	100	102	77 - 120

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-407821

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-107262-F-2 MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/14/2018 1302
Prep Date: 03/14/2018 1302
Leach Date: N/A

MSD Lab Sample ID: 280-107262-F-2 MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 03/14/2018 1322
Prep Date: 03/14/2018 1322
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	0.16	U	5.00	5.00	5.07	5.14
Bromodichloromethane	0.17	U	5.00	5.00	4.96	5.05
Carbon tetrachloride	0.19	U	5.00	5.00	4.82	4.87
Chlorobenzene	0.17	U	5.00	5.00	4.80	5.02
Chloroform	2.3		5.00	5.00	7.14	7.16
1,3-Dichlorobenzene	0.13	U	5.00	5.00	4.75	4.87
1,1-Dichloroethane	0.22	U	5.00	5.00	4.79	4.90
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	4.87	5.09
1,1-Dichloroethene	0.23	U	5.00	5.00	4.58	4.78
1,2-Dichloropropane	0.18	U	5.00	5.00	5.03	5.13
Ethylbenzene	0.16	U	5.00	5.00	4.73	4.93
Methylene Chloride	0.32	U	5.00	5.00	4.62	4.79
Tetrachloroethene	0.20	U	5.00	5.00	4.89	5.00
Toluene	0.17	U	5.00	5.00	5.22	5.37
1,1,1-Trichloroethane	0.16	U	5.00	5.00	4.66	4.72
Trichloroethene	0.16	U	5.00	5.00	4.69	4.83

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-408256

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-408256/5	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E8010.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 0936	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 0936				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	104		70 - 127	

Lab Control Sample - Batch: 280-408256

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 280-408256/3	Analysis Batch:	280-408256	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E8009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/18/2018 0918	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/18/2018 0918				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,4-Dioxane	5.00	4.52	90	25 - 141	
Surrogate	% Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	110			70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-408256

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107263-4	Analysis Batch: 280-408256	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E8018.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/18/2018 1218		Final Weight/Volume: 20 mL
Prep Date: 03/18/2018 1218		
Leach Date: N/A		

MSD Lab Sample ID: 280-107263-4	Analysis Batch: 280-408256	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E8019.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/18/2018 1236		Final Weight/Volume: 20 mL
Prep Date: 03/18/2018 1236		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	105	106	25 - 141	1	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	114		118	70 - 127			

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-408256

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107263-4	Units: ug/L	MSD Lab Sample ID: 280-107263-4
Client Matrix: Water		Client Matrix: Water
Dilution: 1.0		Dilution: 1.0
Analysis Date: 03/18/2018 1218		Analysis Date: 03/18/2018 1236
Prep Date: 03/18/2018 1218		Prep Date: 03/18/2018 1236
Leach Date: N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	1.6	5.00	5.00	6.86	6.91

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Method Blank - Batch: 280-408274

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 280-408274/5	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E8047.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 0830	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 0830				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,4-Dioxane	0.22	U	0.22	1.0
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	110		70 - 127	

Lab Control Sample - Batch: 280-408274

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 280-408274/3	Analysis Batch:	280-408274	Instrument ID:	VMS_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E8046.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/19/2018 0812	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/19/2018 0812				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,4-Dioxane	5.00	4.70	94	25 - 141	
Surrogate	% Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	112			70 - 127	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-408274

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107178-C-12 MS	Analysis Batch: 280-408274	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E8052.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/19/2018 1002		Final Weight/Volume: 20 mL
Prep Date: 03/19/2018 1002		
Leach Date: N/A		

MSD Lab Sample ID: 280-107178-C-12 MSD	Analysis Batch: 280-408274	Instrument ID: VMS_E
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E8053.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 20 mL
Analysis Date: 03/19/2018 1020		Final Weight/Volume: 20 mL
Prep Date: 03/19/2018 1020		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,4-Dioxane	91	79	25 - 141	14	20		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		112	114			70 - 127	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-408274

Method: 8260B SIM
Preparation: 5030B

MS Lab Sample ID: 280-107178-C-12 MS	Units: ug/L	MSD Lab Sample ID: 280-107178-C-12 MSD
Client Matrix: Water		Client Matrix: Water
Dilution: 1.0		Dilution: 1.0
Analysis Date: 03/19/2018 1002		Analysis Date: 03/19/2018 1020
Prep Date: 03/19/2018 1002		Prep Date: 03/19/2018 1020
Leach Date: N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,4-Dioxane	0.22 U	5.00	5.00	4.53	3.95

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1

Sdg Number: PIN12-01.1802002

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-407784					
LCS 280-407784/4	Lab Control Sample	T	Water	8260B	
MB 280-407784/6	Method Blank	T	Water	8260B	
280-107263-1TB	PIN12-01.1802002.107	T	Water	8260B	
280-107263-2TB	PIN12-01.1802002.110	T	Water	8260B	
280-107263-3	PIN12-01.1802002-005	T	Water	8260B	
280-107263-3MS	Matrix Spike	T	Water	8260B	
280-107263-3MSD	Matrix Spike Duplicate	T	Water	8260B	
280-107263-4	PIN12-01.1802002-006	T	Water	8260B	
280-107263-5	PIN12-01.1802002-007	T	Water	8260B	
280-107263-6	PIN12-01.1802002-008	T	Water	8260B	
280-107263-7	PIN12-01.1802002-010	T	Water	8260B	
280-107263-8	PIN12-01.1802002-040	T	Water	8260B	
280-107263-9	PIN12-01.1802002-041	T	Water	8260B	
280-107263-10	PIN12-01.1802002-042	T	Water	8260B	
280-107263-11	PIN12-01.1802002-046	T	Water	8260B	
280-107263-12	PIN12-01.1802002-047	T	Water	8260B	
280-107263-13	PIN12-01.1802002-048	T	Water	8260B	
280-107263-14	PIN12-01.1802002-052	T	Water	8260B	
280-107263-15	PIN12-01.1802002-053	T	Water	8260B	
280-107263-15DL	PIN12-01.1802002-053	T	Water	8260B	
280-107263-16	PIN12-01.1802002-054	T	Water	8260B	
Analysis Batch:280-407821					
LCS 280-407821/4	Lab Control Sample	T	Water	8260B	
LCSD 280-407821/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-407821/6	Method Blank	T	Water	8260B	
280-107262-F-2 MS	Matrix Spike	T	Water	8260B	
280-107262-F-2 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-107263-17	PIN12-01.1802002-070	T	Water	8260B	
280-107263-18	PIN12-01.1802002-071	T	Water	8260B	
280-107263-19	PIN12-01.1802002-073	T	Water	8260B	
280-107263-20	PIN12-01.1802002-074	T	Water	8260B	
280-107263-20DL	PIN12-01.1802002-074	T	Water	8260B	
280-107263-21	PIN12-01.1802002-076	T	Water	8260B	
280-107263-22	PIN12-01.1802002-077	T	Water	8260B	
280-107263-23	PIN12-01.1802002-078	T	Water	8260B	
280-107263-24	PIN12-01.1802002-094	T	Water	8260B	
280-107263-25	PIN12-01.1802002-095	T	Water	8260B	
280-107263-26	PIN12-01.1802002-096	T	Water	8260B	

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
Sdg Number: PIN12-01.1802002

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-408256					
LCS 280-408256/3	Lab Control Sample	T	Water	8260B SIM	
MB 280-408256/5	Method Blank	T	Water	8260B SIM	
280-107263-3	PIN12-01.1802002-005	T	Water	8260B SIM	
280-107263-4	PIN12-01.1802002-006	T	Water	8260B SIM	
280-107263-4MS	Matrix Spike	T	Water	8260B SIM	
280-107263-4MSD	Matrix Spike Duplicate	T	Water	8260B SIM	
280-107263-5	PIN12-01.1802002-007	T	Water	8260B SIM	
280-107263-7	PIN12-01.1802002-010	T	Water	8260B SIM	
280-107263-11	PIN12-01.1802002-046	T	Water	8260B SIM	
280-107263-12	PIN12-01.1802002-047	T	Water	8260B SIM	
280-107263-13	PIN12-01.1802002-048	T	Water	8260B SIM	
280-107263-24	PIN12-01.1802002-094	T	Water	8260B SIM	
280-107263-25	PIN12-01.1802002-095	T	Water	8260B SIM	
Analysis Batch:280-408274					
LCS 280-408274/3	Lab Control Sample	T	Water	8260B SIM	
MB 280-408274/5	Method Blank	T	Water	8260B SIM	
280-107178-C-12 MS	Matrix Spike	T	Water	8260B SIM	
280-107178-C-12 MSD	Matrix Spike Duplicate	T	Water	8260B SIM	
280-107263-6	PIN12-01.1802002-008	T	Water	8260B SIM	
280-107263-8	PIN12-01.1802002-040	T	Water	8260B SIM	
280-107263-9	PIN12-01.1802002-041	T	Water	8260B SIM	
280-107263-10	PIN12-01.1802002-042	T	Water	8260B SIM	
280-107263-14	PIN12-01.1802002-052	T	Water	8260B SIM	
280-107263-15	PIN12-01.1802002-053	T	Water	8260B SIM	
280-107263-16	PIN12-01.1802002-054	T	Water	8260B SIM	
280-107263-17	PIN12-01.1802002-070	T	Water	8260B SIM	
280-107263-18	PIN12-01.1802002-071	T	Water	8260B SIM	
280-107263-19	PIN12-01.1802002-073	T	Water	8260B SIM	
280-107263-20	PIN12-01.1802002-074	T	Water	8260B SIM	
280-107263-21	PIN12-01.1802002-076	T	Water	8260B SIM	
280-107263-22	PIN12-01.1802002-077	T	Water	8260B SIM	
280-107263-23	PIN12-01.1802002-078	T	Water	8260B SIM	
280-107263-26	PIN12-01.1802002-096	T	Water	8260B SIM	

Report Basis

T = Total

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107263-1

Client ID: PIN12-01.1802002.107

Sample Date/Time: 03/06/2018 08:00 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-1		280-407784		03/13/2018 21:32	1	TAL DEN	JNL
A:8260B	280-107263-A-1		280-407784		03/13/2018 21:32	1	TAL DEN	JNL

Lab ID: 280-107263-2

Client ID: PIN12-01.1802002.110

Sample Date/Time: 03/06/2018 08:00 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-2		280-407784		03/13/2018 21:51	1	TAL DEN	JNL
A:8260B	280-107263-A-2		280-407784		03/13/2018 21:51	1	TAL DEN	JNL

Lab ID: 280-107263-3

Client ID: PIN12-01.1802002-005

Sample Date/Time: 03/06/2018 10:15 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-3		280-407784		03/13/2018 22:10	1	TAL DEN	JNL
A:8260B	280-107263-A-3		280-407784		03/13/2018 22:10	1	TAL DEN	JNL
P:5030B	280-107263-D-3		280-408256		03/18/2018 14:42	1	TAL DEN	MRM
A:8260B SIM	280-107263-D-3		280-408256		03/18/2018 14:42	1	TAL DEN	MRM

Lab ID: 280-107263-3

Client ID: PIN12-01.1802002-005

Sample Date/Time: 03/06/2018 10:15 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-C-3 MS		280-407784		03/13/2018 22:29	1	TAL DEN	JNL
A:8260B	280-107263-C-3 MS		280-407784		03/13/2018 22:29	1	TAL DEN	JNL

Lab ID: 280-107263-3

Client ID: PIN12-01.1802002-005

Sample Date/Time: 03/06/2018 10:15 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-C-3 MSD		280-407784		03/13/2018 22:49	1	TAL DEN	JNL
A:8260B	280-107263-C-3 MSD		280-407784		03/13/2018 22:49	1	TAL DEN	JNL

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107263-4

Client ID: PIN12-01.1802002-006

Sample Date/Time: 03/06/2018 10:55 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-4		280-407784		03/13/2018 23:08	1	TAL DEN	JNL
A:8260B	280-107263-A-4		280-407784		03/13/2018 23:08	1	TAL DEN	JNL
P:5030B	280-107263-D-4		280-408256		03/18/2018 09:59	1	TAL DEN	MRM
A:8260B SIM	280-107263-D-4		280-408256		03/18/2018 09:59	1	TAL DEN	MRM

Lab ID: 280-107263-4

Client ID: PIN12-01.1802002-006

Sample Date/Time: 03/06/2018 10:55 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-C-4 MS		280-408256		03/18/2018 12:18	1	TAL DEN	MRM
A:8260B SIM	280-107263-C-4 MS		280-408256		03/18/2018 12:18	1	TAL DEN	MRM

Lab ID: 280-107263-4

Client ID: PIN12-01.1802002-006

Sample Date/Time: 03/06/2018 10:55 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-C-4 MSD		280-408256		03/18/2018 12:36	1	TAL DEN	MRM
A:8260B SIM	280-107263-C-4 MSD		280-408256		03/18/2018 12:36	1	TAL DEN	MRM

Lab ID: 280-107263-5

Client ID: PIN12-01.1802002-007

Sample Date/Time: 03/06/2018 10:35 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-5		280-407784		03/13/2018 23:27	1	TAL DEN	JNL
A:8260B	280-107263-A-5		280-407784		03/13/2018 23:27	1	TAL DEN	JNL
P:5030B	280-107263-C-5		280-408256		03/18/2018 18:00	1	TAL DEN	MRM
A:8260B SIM	280-107263-C-5		280-408256		03/18/2018 18:00	1	TAL DEN	MRM

Lab ID: 280-107263-6

Client ID: PIN12-01.1802002-008

Sample Date/Time: 03/07/2018 08:00 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-6		280-407784		03/13/2018 23:46	1	TAL DEN	JNL
A:8260B	280-107263-A-6		280-407784		03/13/2018 23:46	1	TAL DEN	JNL
P:5030B	280-107263-D-6		280-408274		03/19/2018 10:38	2	TAL DEN	MRM
A:8260B SIM	280-107263-D-6		280-408274		03/19/2018 10:38	2	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107263-7

Client ID: PIN12-01.1802002-010

Sample Date/Time: 03/06/2018 08:15 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-7		280-407784		03/14/2018 00:05	1	TAL DEN	JNL
A:8260B	280-107263-A-7		280-407784		03/14/2018 00:05	1	TAL DEN	JNL
P:5030B	280-107263-D-7		280-408256		03/18/2018 15:18	1	TAL DEN	MRM
A:8260B SIM	280-107263-D-7		280-408256		03/18/2018 15:18	1	TAL DEN	MRM

Lab ID: 280-107263-8

Client ID: PIN12-01.1802002-040

Sample Date/Time: 03/07/2018 08:30 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-8		280-407784		03/14/2018 00:24	1	TAL DEN	JNL
A:8260B	280-107263-A-8		280-407784		03/14/2018 00:24	1	TAL DEN	JNL
P:5030B	280-107263-D-8		280-408274		03/19/2018 10:56	5	TAL DEN	MRM
A:8260B SIM	280-107263-D-8		280-408274		03/19/2018 10:56	5	TAL DEN	MRM

Lab ID: 280-107263-9

Client ID: PIN12-01.1802002-041

Sample Date/Time: 03/07/2018 09:00 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-9		280-407784		03/14/2018 00:44	1	TAL DEN	JNL
A:8260B	280-107263-A-9		280-407784		03/14/2018 00:44	1	TAL DEN	JNL
P:5030B	280-107263-D-9		280-408274		03/19/2018 11:14	5	TAL DEN	MRM
A:8260B SIM	280-107263-D-9		280-408274		03/19/2018 11:14	5	TAL DEN	MRM

Lab ID: 280-107263-10

Client ID: PIN12-01.1802002-042

Sample Date/Time: 03/07/2018 10:20 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-10		280-407784		03/14/2018 01:03	1	TAL DEN	JNL
A:8260B	280-107263-A-10		280-407784		03/14/2018 01:03	1	TAL DEN	JNL
P:5030B	280-107263-D-10		280-408274		03/19/2018 11:32	1	TAL DEN	MRM
A:8260B SIM	280-107263-D-10		280-408274		03/19/2018 11:32	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107263-11

Client ID: PIN12-01.1802002-046

Sample Date/Time: 03/06/2018 08:30 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-11		280-407784		03/14/2018 01:22	1	TAL DEN	JNL
A:8260B	280-107263-A-11		280-407784		03/14/2018 01:22	1	TAL DEN	JNL
P:5030B	280-107263-D-11		280-408256		03/18/2018 15:36	1	TAL DEN	MRM
A:8260B SIM	280-107263-D-11		280-408256		03/18/2018 15:36	1	TAL DEN	MRM

Lab ID: 280-107263-12

Client ID: PIN12-01.1802002-047

Sample Date/Time: 03/06/2018 09:00 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-12		280-407784		03/14/2018 01:41	1	TAL DEN	JNL
A:8260B	280-107263-A-12		280-407784		03/14/2018 01:41	1	TAL DEN	JNL
P:5030B	280-107263-D-12		280-408256		03/18/2018 15:54	1	TAL DEN	MRM
A:8260B SIM	280-107263-D-12		280-408256		03/18/2018 15:54	1	TAL DEN	MRM

Lab ID: 280-107263-13

Client ID: PIN12-01.1802002-048

Sample Date/Time: 03/06/2018 09:30 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-13		280-407784		03/14/2018 02:00	1	TAL DEN	JNL
A:8260B	280-107263-A-13		280-407784		03/14/2018 02:00	1	TAL DEN	JNL
P:5030B	280-107263-D-13		280-408256		03/18/2018 16:12	1	TAL DEN	MRM
A:8260B SIM	280-107263-D-13		280-408256		03/18/2018 16:12	1	TAL DEN	MRM

Lab ID: 280-107263-14

Client ID: PIN12-01.1802002-052

Sample Date/Time: 03/07/2018 08:05 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-B-14		280-407784		03/14/2018 02:19	1	TAL DEN	JNL
A:8260B	280-107263-B-14		280-407784		03/14/2018 02:19	1	TAL DEN	JNL
P:5030B	280-107263-D-14		280-408274		03/19/2018 11:50	1	TAL DEN	MRM
A:8260B SIM	280-107263-D-14		280-408274		03/19/2018 11:50	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107263-15

Client ID: PIN12-01.1802002-053

Sample Date/Time: 03/07/2018 08:35 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-15		280-407784		03/14/2018 02:38	1	TAL DEN	JNL
A:8260B	280-107263-A-15		280-407784		03/14/2018 02:38	1	TAL DEN	JNL
P:5030B	280-107263-A-15	DL	280-407784		03/14/2018 02:58	4	TAL DEN	JNL
A:8260B	280-107263-A-15	DL	280-407784		03/14/2018 02:58	4	TAL DEN	JNL
P:5030B	280-107263-D-15		280-408274		03/19/2018 12:08	20	TAL DEN	MRM
A:8260B SIM	280-107263-D-15		280-408274		03/19/2018 12:08	20	TAL DEN	MRM

Lab ID: 280-107263-16

Client ID: PIN12-01.1802002-054

Sample Date/Time: 03/07/2018 09:30 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-16		280-407784		03/14/2018 03:17	1	TAL DEN	JNL
A:8260B	280-107263-A-16		280-407784		03/14/2018 03:17	1	TAL DEN	JNL
P:5030B	280-107263-D-16		280-408274		03/19/2018 12:26	5	TAL DEN	MRM
A:8260B SIM	280-107263-D-16		280-408274		03/19/2018 12:26	5	TAL DEN	MRM

Lab ID: 280-107263-17

Client ID: PIN12-01.1802002-070

Sample Date/Time: 03/07/2018 14:10 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-17		280-407821		03/14/2018 15:56	1	TAL DEN	JLS
A:8260B	280-107263-A-17		280-407821		03/14/2018 15:56	1	TAL DEN	JLS
P:5030B	280-107263-C-17		280-408274		03/19/2018 12:44	1	TAL DEN	MRM
A:8260B SIM	280-107263-C-17		280-408274		03/19/2018 12:44	1	TAL DEN	MRM

Lab ID: 280-107263-18

Client ID: PIN12-01.1802002-071

Sample Date/Time: 03/07/2018 11:15 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-18		280-407821		03/14/2018 16:16	1	TAL DEN	JLS
A:8260B	280-107263-A-18		280-407821		03/14/2018 16:16	1	TAL DEN	JLS
P:5030B	280-107263-C-18		280-408274		03/19/2018 13:02	1	TAL DEN	MRM
A:8260B SIM	280-107263-C-18		280-408274		03/19/2018 13:02	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107263-19

Client ID: PIN12-01.1802002-073

Sample Date/Time: 03/07/2018 15:10 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-D-19		280-407821		03/14/2018 16:35	1	TAL DEN	JLS
A:8260B	280-107263-D-19		280-407821		03/14/2018 16:35	1	TAL DEN	JLS
P:5030B	280-107263-C-19		280-408274		03/19/2018 13:20	1	TAL DEN	MRM
A:8260B SIM	280-107263-C-19		280-408274		03/19/2018 13:20	1	TAL DEN	MRM

Lab ID: 280-107263-20

Client ID: PIN12-01.1802002-074

Sample Date/Time: 03/07/2018 15:30 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-20		280-407821		03/14/2018 16:54	4	TAL DEN	JLS
A:8260B	280-107263-A-20		280-407821		03/14/2018 16:54	4	TAL DEN	JLS
P:5030B	280-107263-A-20	DL	280-407821		03/14/2018 17:13	40	TAL DEN	JLS
A:8260B	280-107263-A-20	DL	280-407821		03/14/2018 17:13	40	TAL DEN	JLS
P:5030B	280-107263-C-20		280-408274		03/19/2018 13:38	1	TAL DEN	MRM
A:8260B SIM	280-107263-C-20		280-408274		03/19/2018 13:38	1	TAL DEN	MRM

Lab ID: 280-107263-21

Client ID: PIN12-01.1802002-076

Sample Date/Time: 03/07/2018 11:05 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-21		280-407821		03/14/2018 17:33	1	TAL DEN	JLS
A:8260B	280-107263-A-21		280-407821		03/14/2018 17:33	1	TAL DEN	JLS
P:5030B	280-107263-D-21		280-408274		03/19/2018 13:56	1	TAL DEN	MRM
A:8260B SIM	280-107263-D-21		280-408274		03/19/2018 13:56	1	TAL DEN	MRM

Lab ID: 280-107263-22

Client ID: PIN12-01.1802002-077

Sample Date/Time: 03/07/2018 13:50 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-22		280-407821		03/14/2018 17:52	1	TAL DEN	JLS
A:8260B	280-107263-A-22		280-407821		03/14/2018 17:52	1	TAL DEN	JLS
P:5030B	280-107263-C-22		280-408274		03/19/2018 14:14	1	TAL DEN	MRM
A:8260B SIM	280-107263-C-22		280-408274		03/19/2018 14:14	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: 280-107263-23

Client ID: PIN12-01.1802002-078

Sample Date/Time: 03/07/2018 14:55 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-C-23		280-407821		03/14/2018 18:11	1	TAL DEN	JLS
A:8260B	280-107263-C-23		280-407821		03/14/2018 18:11	1	TAL DEN	JLS
P:5030B	280-107263-A-23		280-408274		03/19/2018 14:32	1	TAL DEN	MRM
A:8260B SIM	280-107263-A-23		280-408274		03/19/2018 14:32	1	TAL DEN	MRM

Lab ID: 280-107263-24

Client ID: PIN12-01.1802002-094

Sample Date/Time: 03/06/2018 09:00 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-C-24		280-407821		03/14/2018 18:31	1	TAL DEN	JLS
A:8260B	280-107263-C-24		280-407821		03/14/2018 18:31	1	TAL DEN	JLS
P:5030B	280-107263-A-24		280-408256		03/18/2018 16:30	1	TAL DEN	MRM
A:8260B SIM	280-107263-A-24		280-408256		03/18/2018 16:30	1	TAL DEN	MRM

Lab ID: 280-107263-25

Client ID: PIN12-01.1802002-095

Sample Date/Time: 03/06/2018 09:30 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-C-25		280-407821		03/14/2018 18:50	1	TAL DEN	JLS
A:8260B	280-107263-C-25		280-407821		03/14/2018 18:50	1	TAL DEN	JLS
P:5030B	280-107263-A-25		280-408256		03/18/2018 16:48	1	TAL DEN	MRM
A:8260B SIM	280-107263-A-25		280-408256		03/18/2018 16:48	1	TAL DEN	MRM

Lab ID: 280-107263-26

Client ID: PIN12-01.1802002-096

Sample Date/Time: 03/07/2018 09:55 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107263-A-26		280-407821		03/14/2018 19:10	1	TAL DEN	JLS
A:8260B	280-107263-A-26		280-407821		03/14/2018 19:10	1	TAL DEN	JLS
P:5030B	280-107263-D-26		280-408274		03/19/2018 14:50	1	TAL DEN	MRM
A:8260B SIM	280-107263-D-26		280-408274		03/19/2018 14:50	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1

SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-407784/6		280-407784		03/13/2018 21:10	1	TAL DEN	JNL
A:8260B	MB 280-407784/6		280-407784		03/13/2018 21:10	1	TAL DEN	JNL
P:5030B	MB 280-407821/6		280-407821		03/14/2018 11:12	1	TAL DEN	JLS
A:8260B	MB 280-407821/6		280-407821		03/14/2018 11:12	1	TAL DEN	JLS
P:5030B	MB 280-408256/5		280-408256		03/18/2018 09:36	1	TAL DEN	MRM
A:8260B SIM	MB 280-408256/5		280-408256		03/18/2018 09:36	1	TAL DEN	MRM
P:5030B	MB 280-408274/5		280-408274		03/19/2018 08:30	1	TAL DEN	MRM
A:8260B SIM	MB 280-408274/5		280-408274		03/19/2018 08:30	1	TAL DEN	MRM

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-407784/4		280-407784		03/13/2018 20:51	1	TAL DEN	JNL
A:8260B	LCS 280-407784/4		280-407784		03/13/2018 20:51	1	TAL DEN	JNL
P:5030B	LCS 280-407821/4		280-407821		03/14/2018 10:52	1	TAL DEN	JLS
A:8260B	LCS 280-407821/4		280-407821		03/14/2018 10:52	1	TAL DEN	JLS
P:5030B	LCS 280-408256/3		280-408256		03/18/2018 09:18	1	TAL DEN	MRM
A:8260B SIM	LCS 280-408256/3		280-408256		03/18/2018 09:18	1	TAL DEN	MRM
P:5030B	LCS 280-408274/3		280-408274		03/19/2018 08:12	1	TAL DEN	MRM
A:8260B SIM	LCS 280-408274/3		280-408274		03/19/2018 08:12	1	TAL DEN	MRM

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-407821/5		280-407821		03/14/2018 11:32	1	TAL DEN	JLS
A:8260B	LCSD 280-407821/5		280-407821		03/14/2018 11:32	1	TAL DEN	JLS

Lab ID: MS

Client ID: N/A

Sample Date/Time: 03/08/2018 10:28

Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107262-F-2 MS		280-407821		03/14/2018 13:02	1	TAL DEN	JLS
A:8260B	280-107262-F-2 MS		280-407821		03/14/2018 13:02	1	TAL DEN	JLS
P:5030B	280-107178-C-12 MS		280-408274		03/19/2018 10:02	1	TAL DEN	MRM
A:8260B SIM	280-107178-C-12 MS		280-408274		03/19/2018 10:02	1	TAL DEN	MRM

Quality Control Results

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
SDG: PIN12-01.1802002

Laboratory Chronicle

Lab ID: MSD

Client ID: N/A

Sample Date/Time: 03/08/2018 10:28 Received Date/Time: 03/09/2018 09:55

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-107262-F-2 MSD		280-407821		03/14/2018 13:22	1	TAL DEN	JLS
A:8260B	280-107262-F-2 MSD		280-407821		03/14/2018 13:22	1	TAL DEN	JLS
P:5030B	280-107178-C-12 MSD		280-408274		03/19/2018 10:20	1	TAL DEN	MRM
A:8260B SIM	280-107178-C-12 MSD		280-408274		03/19/2018 10:20	1	TAL DEN	MRM

Lab References:

TAL DEN = TestAmerica Denver

Shipping and Receiving Documents

3-9-18

Chain of Custody / Sample Submittal Form

Task Code: PIN12-01.1802002		COC ID: x3-PIN12-01.1802002-COC.2		TURNAROUND TIME: 28															
PROJECT INFORMATION				LABORATORY															
Facility Name: Industrial Drain Leaks Bldg 100		Lab Name: TestAmerica Denver		Shipping Company:															
Project Number: 1.101.1.06.509.2.01		Address: 4955 Yarrow Street		Tracking Number:															
Project Name: Pinellas Bldg 100 Monitoring		City: Arvada State: CO		Cooler Count:															
		Postal Code: 80002		Date Shipped: 3/8/18															
		Phone Number: 303-736-0100		Sampled by: BAGER CABALLERO															
		PO Number: LMCP6283		GRAHAM TIGAR															
				Sampler 2:															
SAMPLE DETAILS				ANALYSIS REQUESTED															
				Filtered - F: Field, L: Lab, FL: Field & Lab, N: None															
Sample ID	Location	Matrix	Date	Time (24hr)	G=Grab C=Comp	# of Cont	Container	GLASS 40 ML	GLASS 40 ML										
PIN12-01.1802002-053	0580-2	GW	03/07/18	08:35	G	4													
PIN12-01.1802002-054	0580-3	GW	03/07/18	09:30	G	4													
PIN12-01.1802002-070	0586-1	GW	03/07/18	14:10	G	4													
PIN12-01.1802002-071	0586-2	GW	03/07/18	11:15	G	4													
PIN12-01.1802002-073	0587-1	GW	03/07/18	15:10	G	4													
PIN12-01.1802002-074	0587-2	GW	03/07/18	15:30	G	4													
PIN12-01.1802002-076	0588-1	GW	03/07/18	11:05	G	4													
PIN12-01.1802002-077	0588-2	GW	03/07/18	13:50	G	4													
PIN12-01.1802002-078	0588-3	GW	03/07/18	14:55	G	4													
PIN12-01.1802002-094	S71B	GW	03/06/18	09:00	G	4													
PIN12-01.1802002-095	S71C	GW	03/06/18	09:30	G	4													
PIN12-01.1802002-096	S71D	GW	03/07/18	09:55	G	4													
ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS				RELINQUISHED BY		DATE/TIME		ACCEPTED BY		DATE/TIME									
This is the final shipment. THIS TASK IS COMPLETE!!				<i>[Signature]</i>		3/8/18 0900 3-8-18 1700		<i>[Signature]</i> T4-Dan		3-8-18 1220 3-9-18 0937									

Login Sample Receipt Checklist

Client: Navarro Research and Engineering, Inc

Job Number: 280-107263-1
SDG Number: PIN12-01.1802002

Login Number: 107263
List Number: 1
Creator: Pottruff, Reed W

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	60 CPM
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	